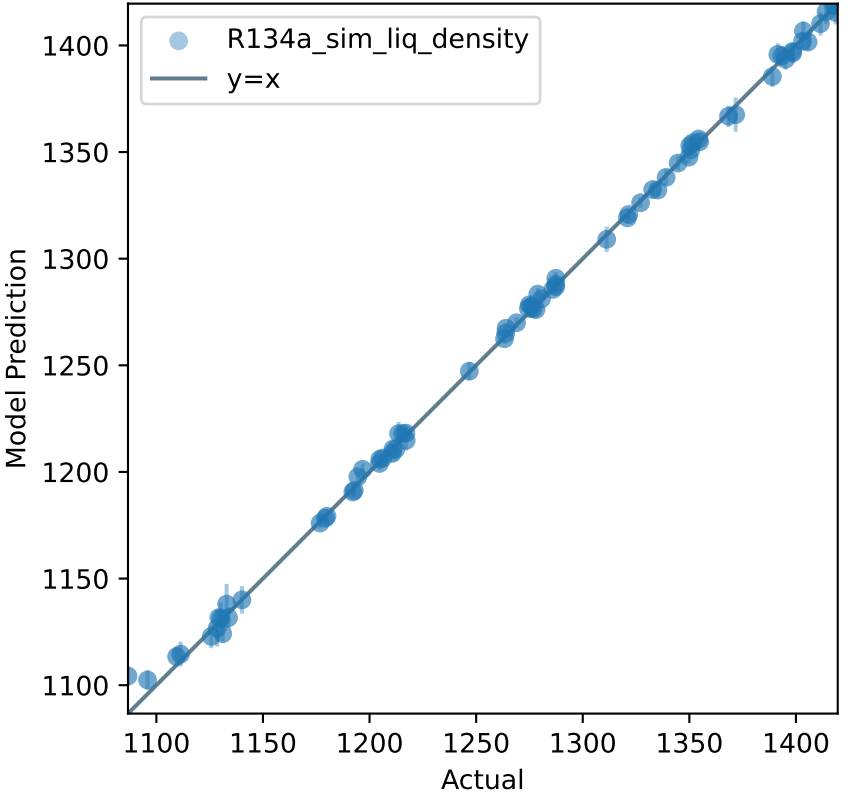
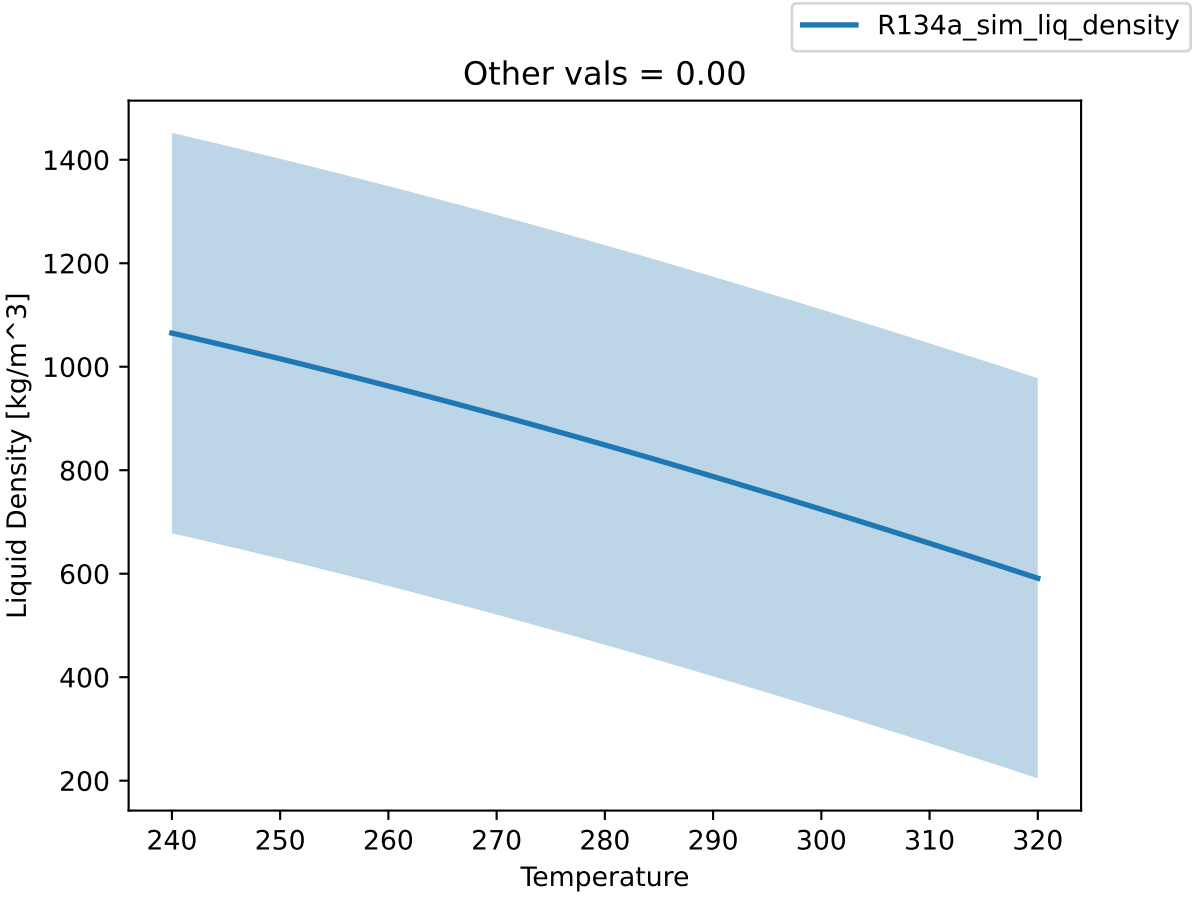
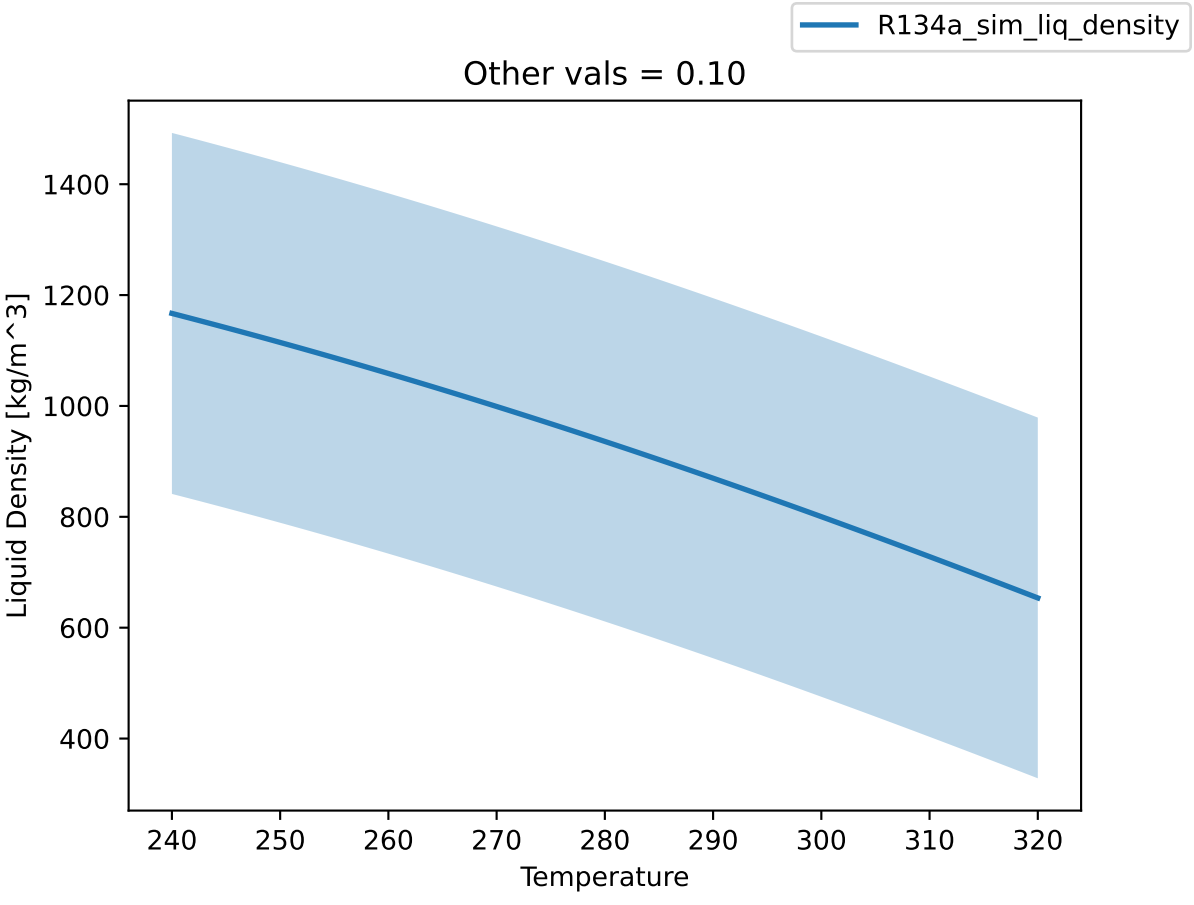
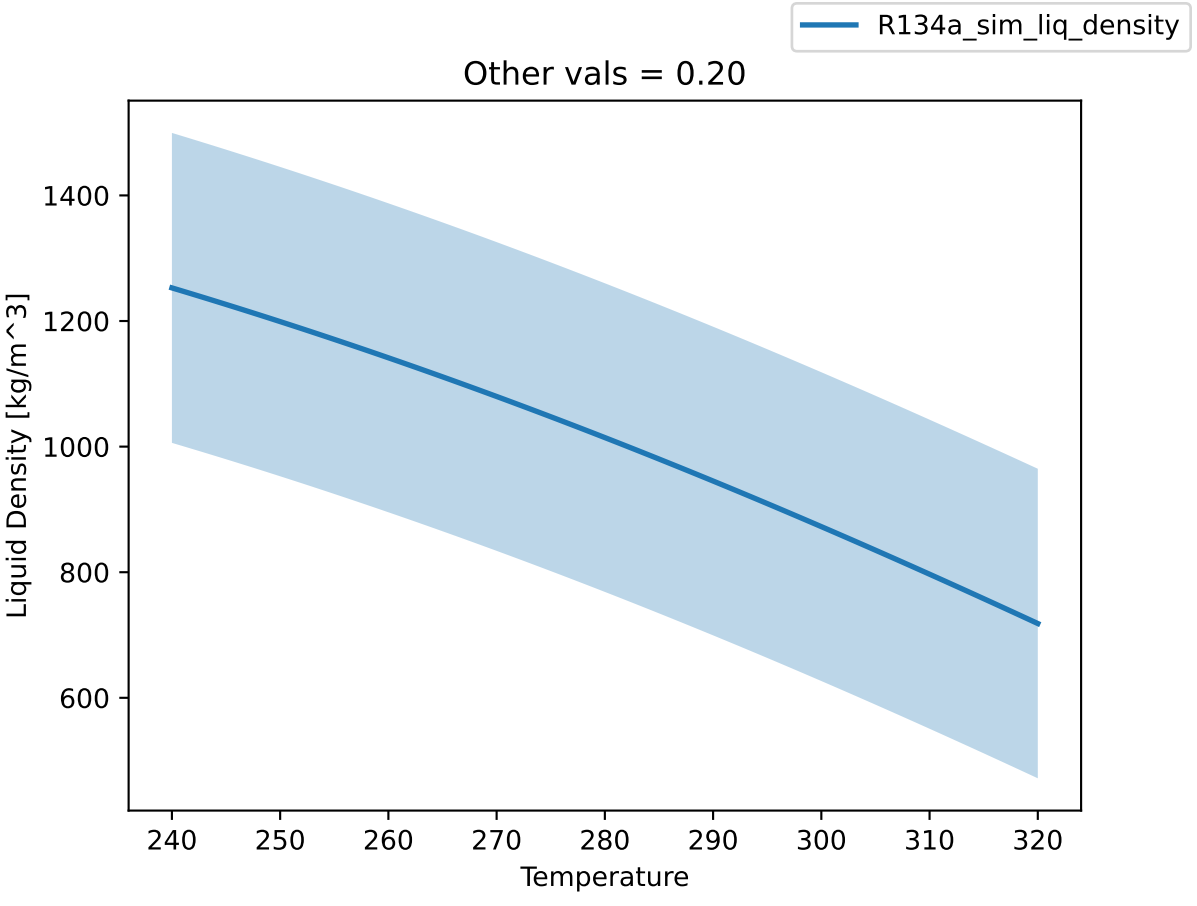
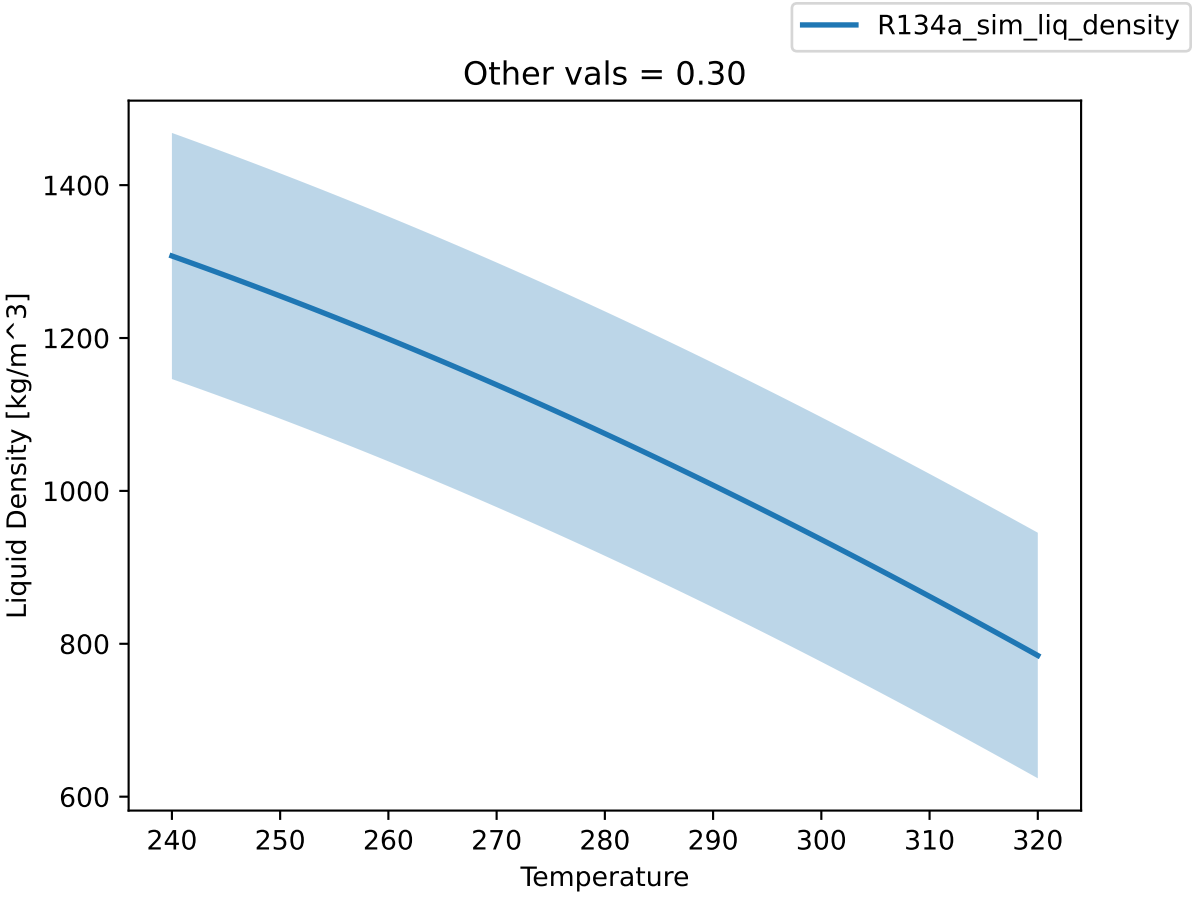
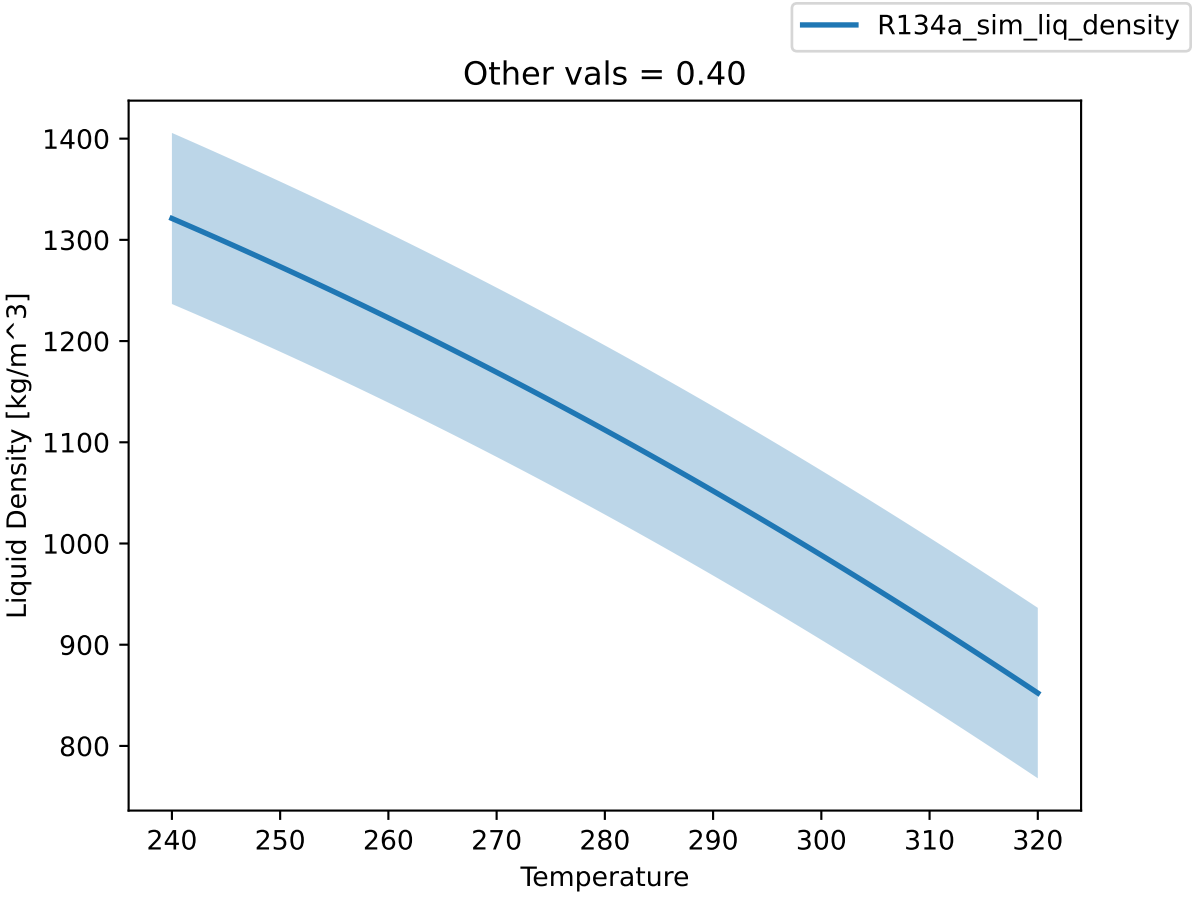

R134a_sim_liq_density
y=x
Model Prediction
Actual
1100
1150
1200
1250
1300
1350
1400

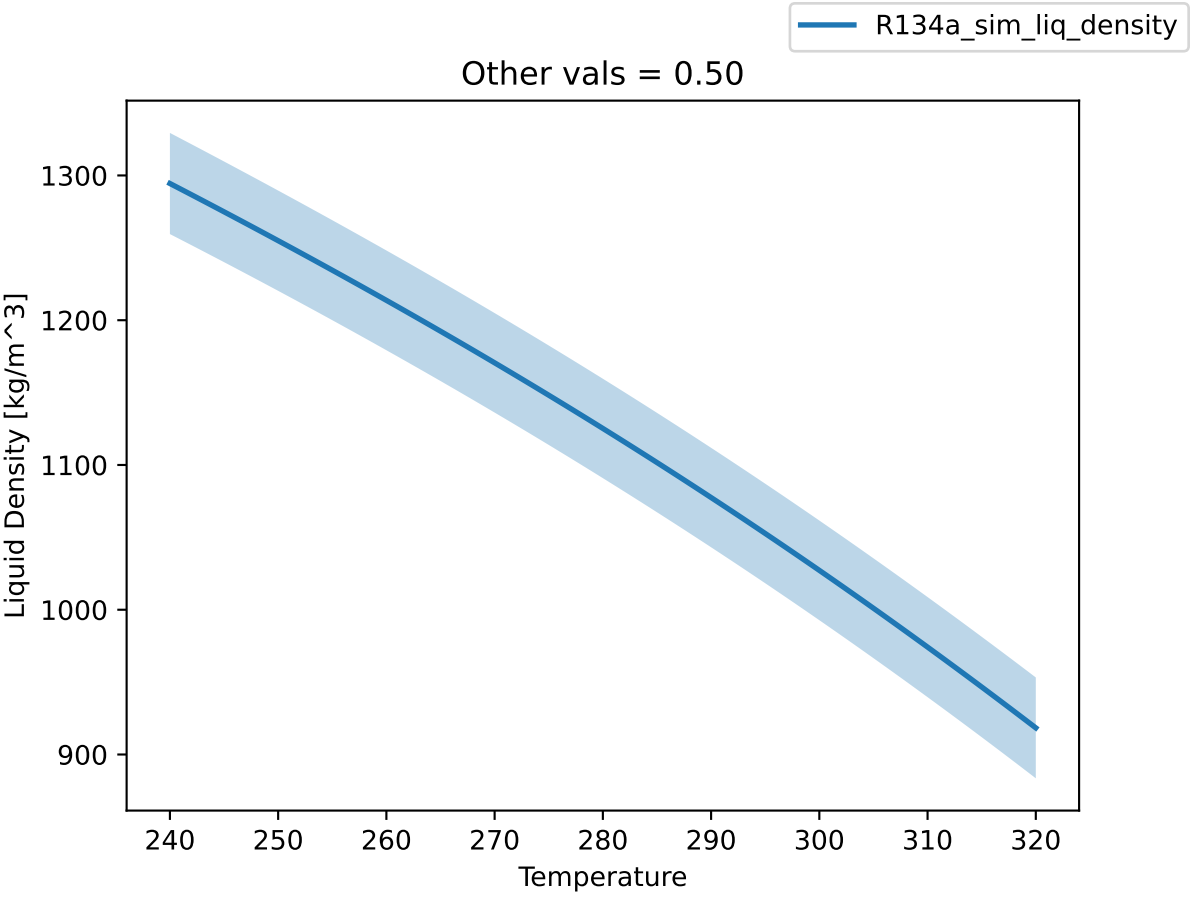

R134a_sim_liq_density
Other vals = 0.00
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
200
240
250
260
270
280
290
300
310
320
Temperature

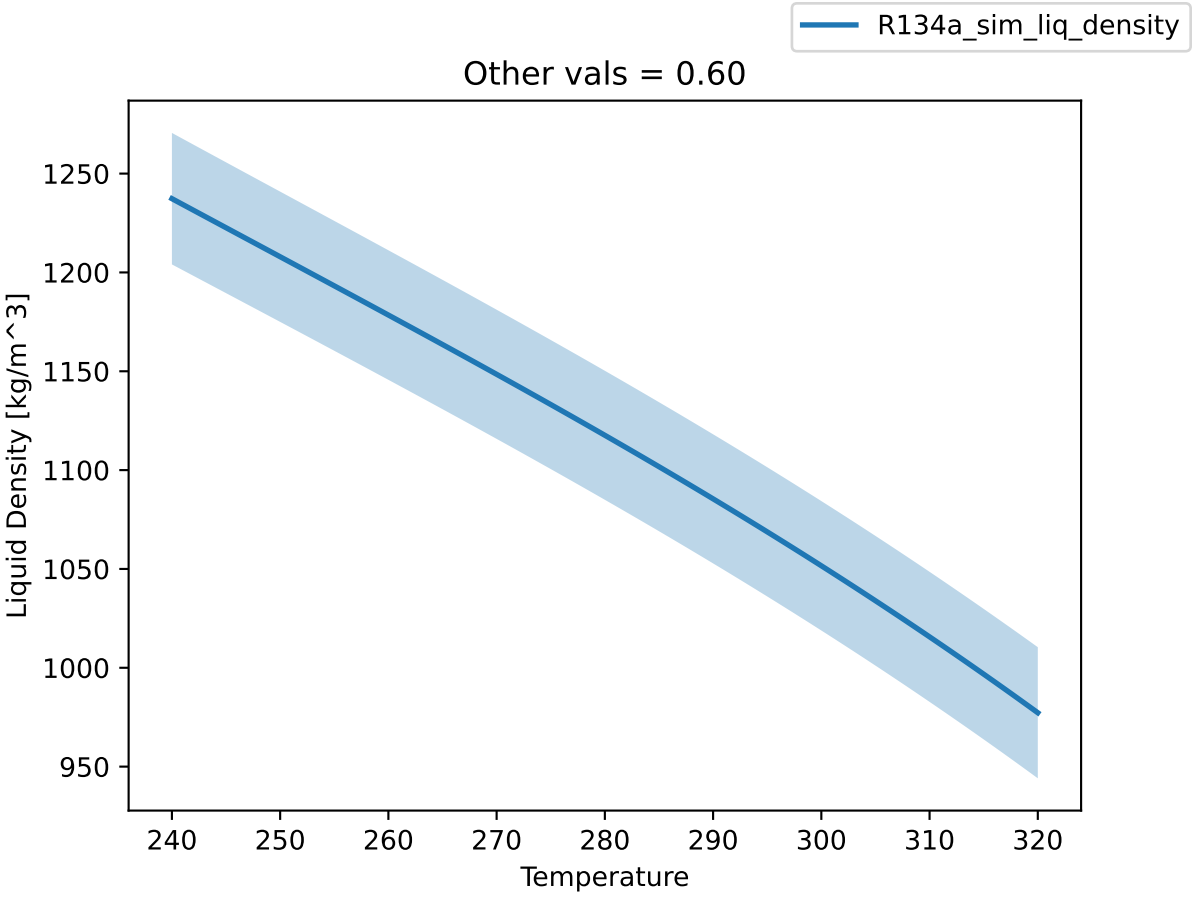

R134a_sim_liq_density
Other vals = 0.10
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
240
250
260
270
280
290
300
310
320
Temperature

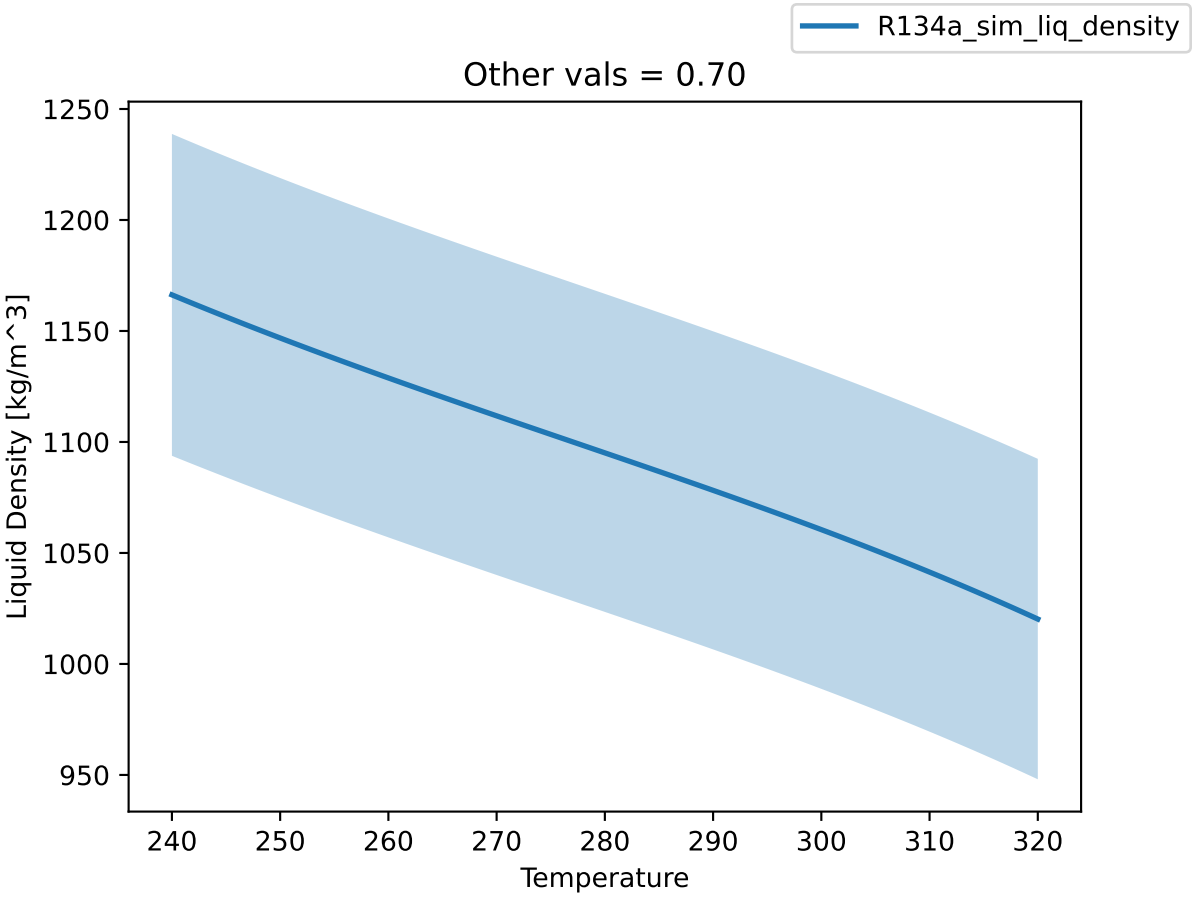

R134a_sim_liq_density
Other vals = 0.20
Liquid Density [kg/m^3]
1400
1200
1000
800
600
240
250
260
270
280
290
300
310
320
Temperature

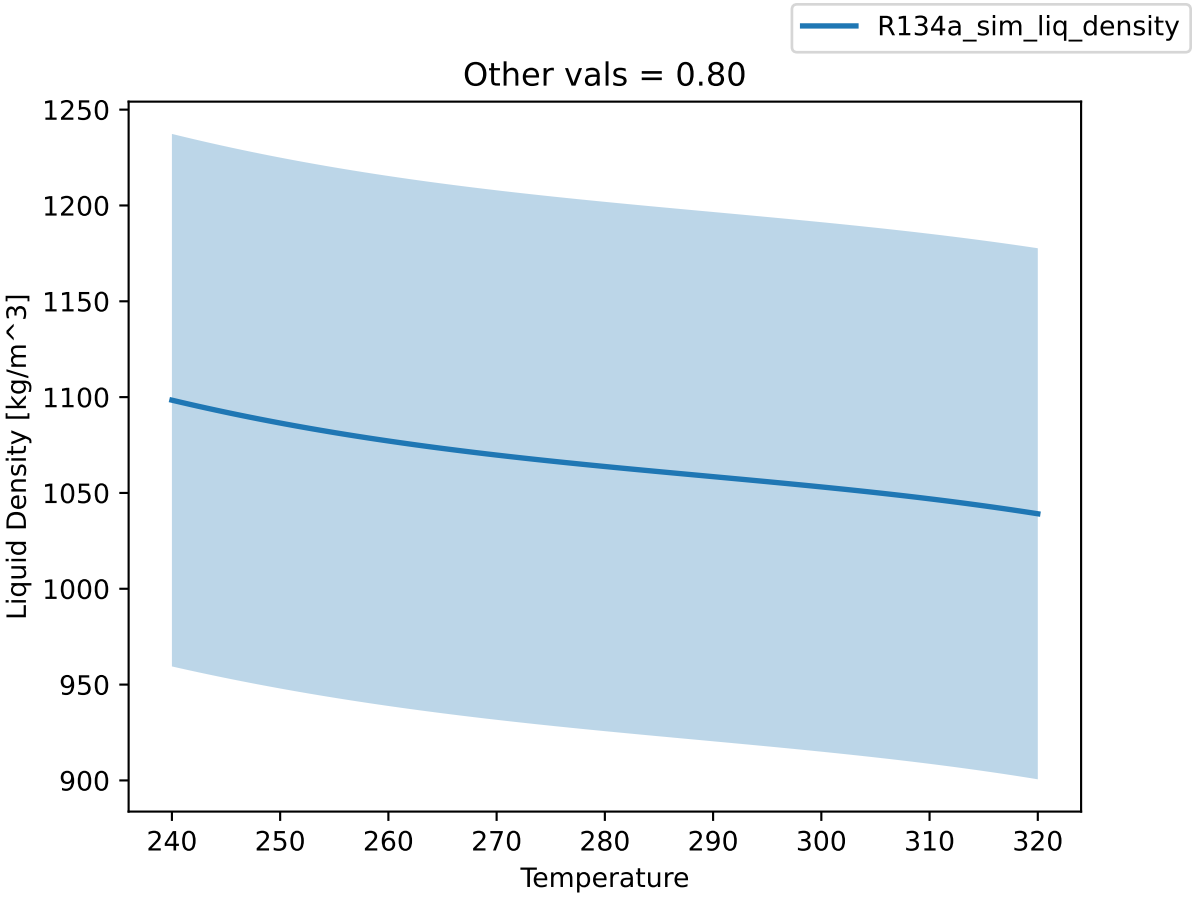

R134a_sim_liq_density
Other vals = 0.30
Liquid Density [kg/m^3]
1400
1200
1000
800
600
240
250
260
270
280
290
300
310
320
Temperature

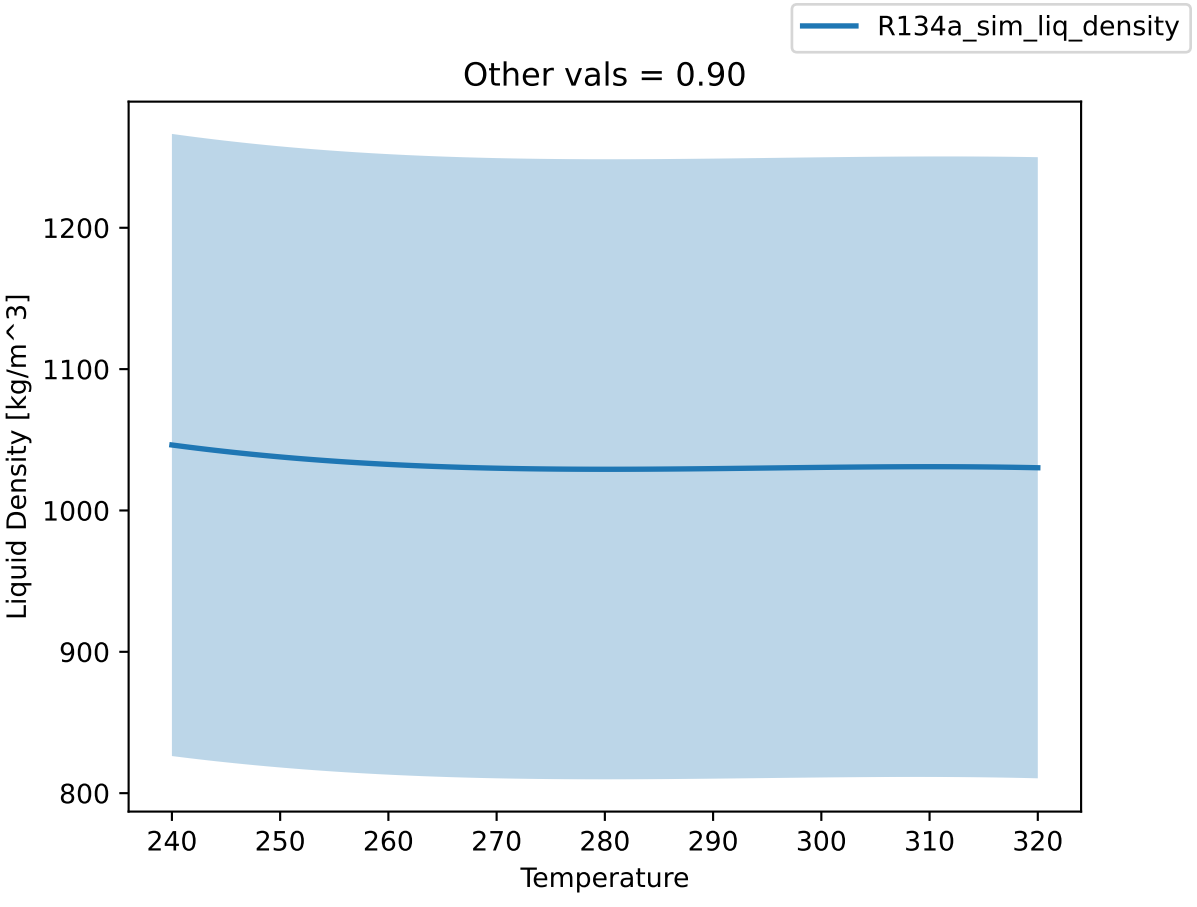

R134a_sim_liq_density
Other vals = 0.40
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
240
250
260
270
280
290
300
310
320
Temperature

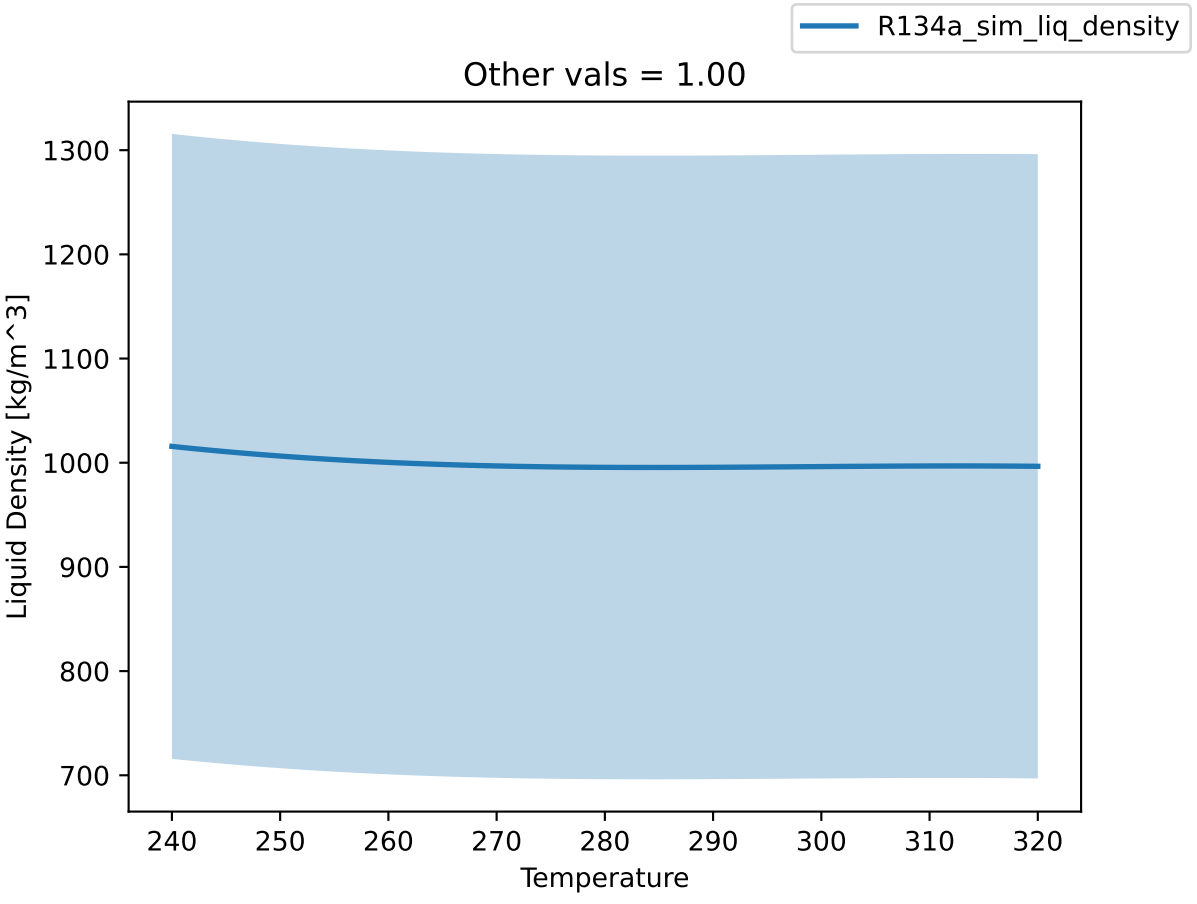

R134a_sim_liq_density
Other vals = 0.50
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
240
250
260
270
280
290
300
310
320
Temperature

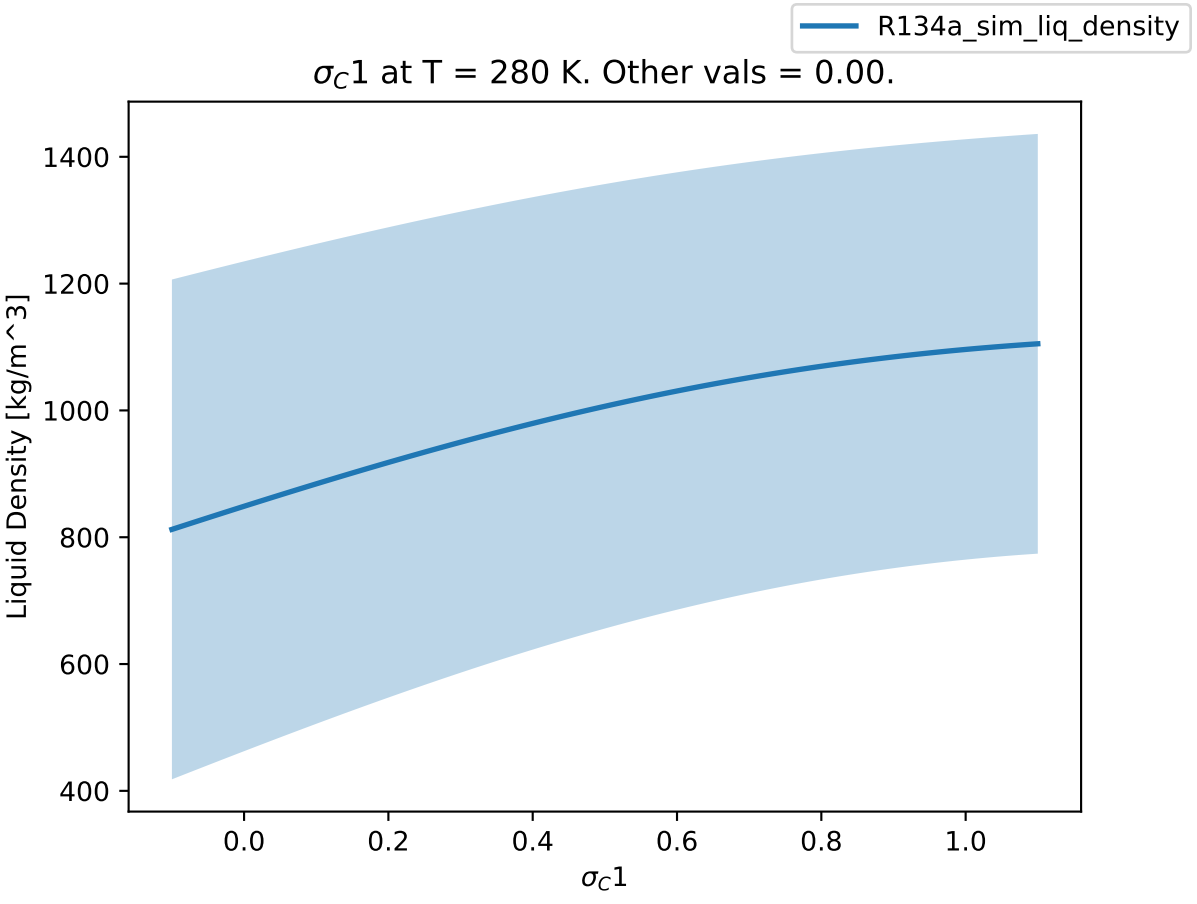

R134a_sim_liq_density
Other vals = 0.60
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
240
250
260
270
280
290
300
310
320
Temperature

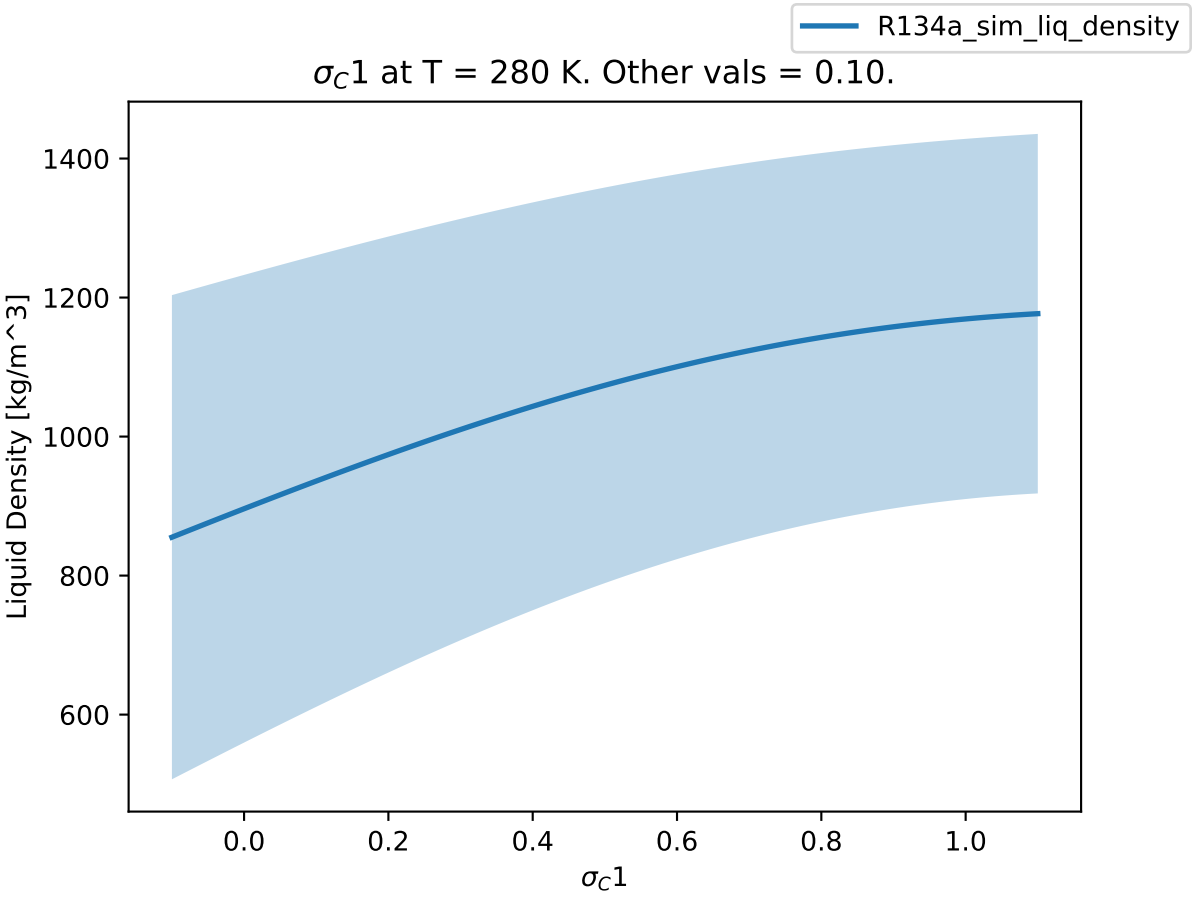

R134a_sim_liq_density
Other vals = 0.70
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
240
250
260
270
280
290
300
310
320
Temperature

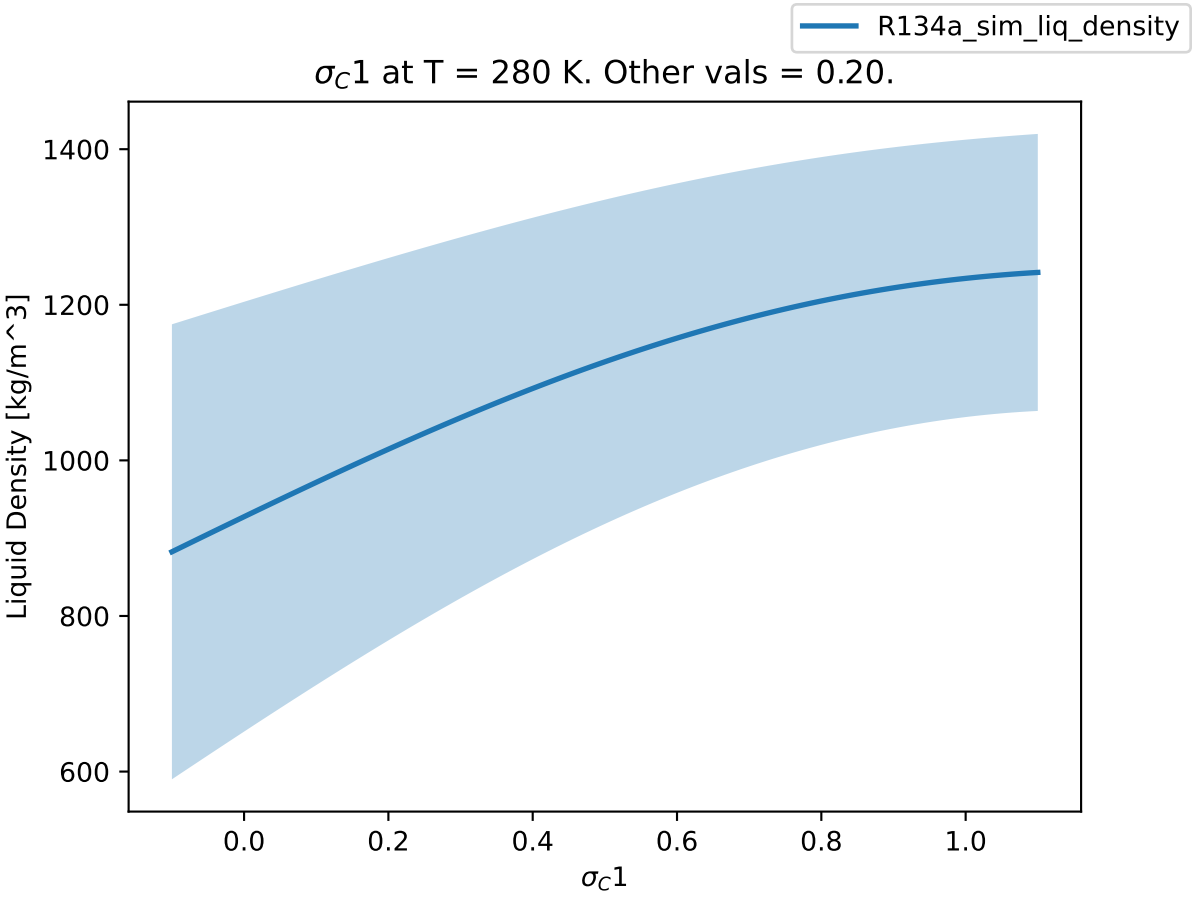

R134a_sim_liq_density
Other vals = 0.80
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
900
240
250
260
270
280
290
300
310
320
Temperature

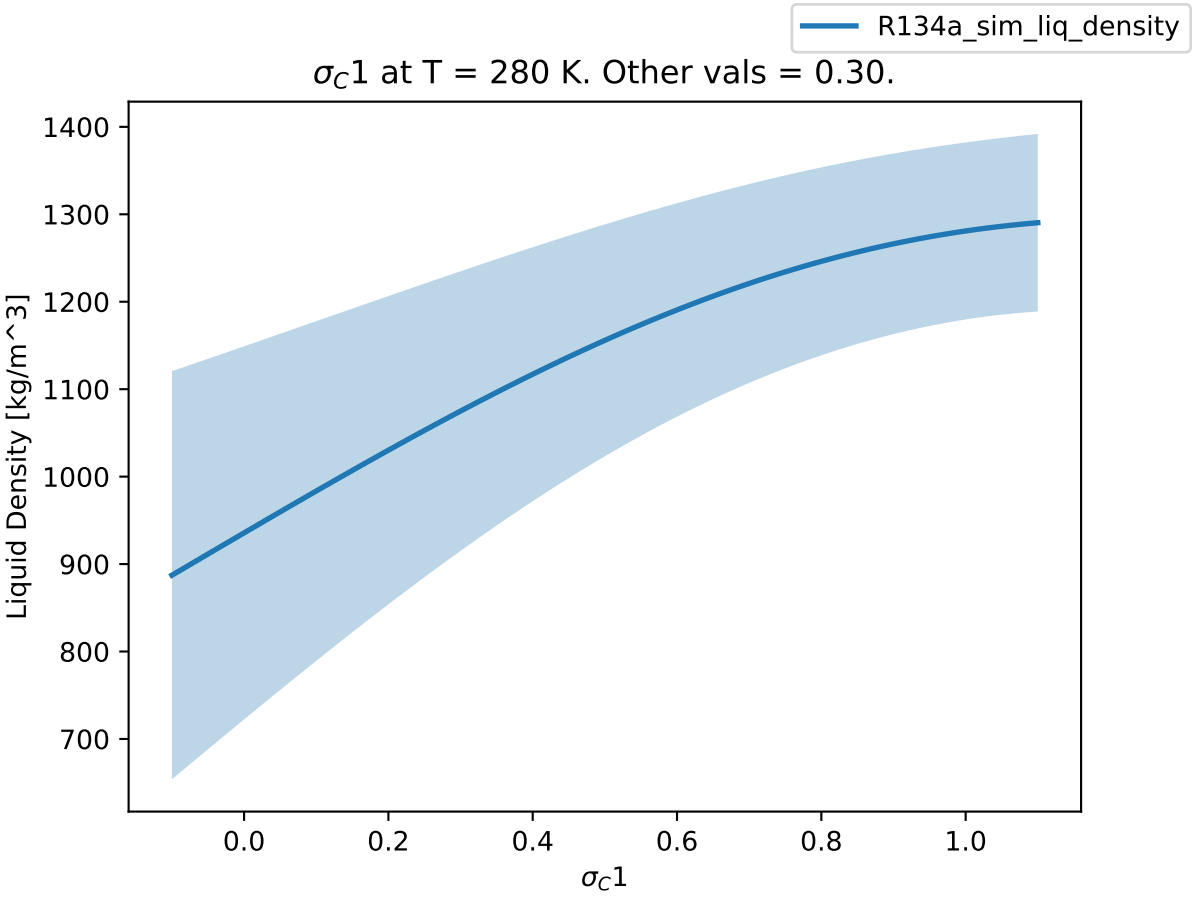

R134a_sim_liq_density
Other vals = 0.90
Liquid Density [kg/m^3]
1200
1100
1000
900
800
240
250
260
270
280
290
300
310
320
Temperature

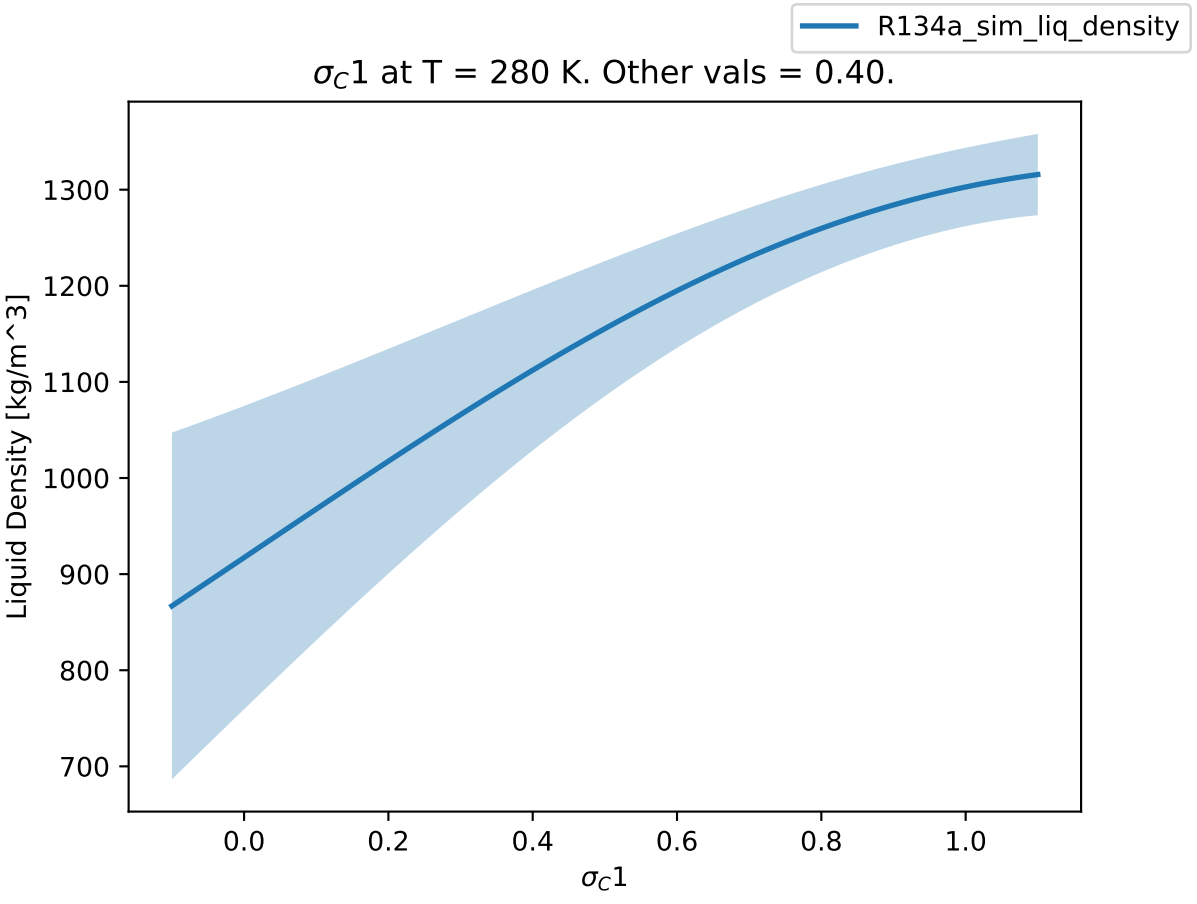

R134a_sim_liq_density
Other vals = 1.00
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
240
250
260
270
280
290
300
310
320
Temperature

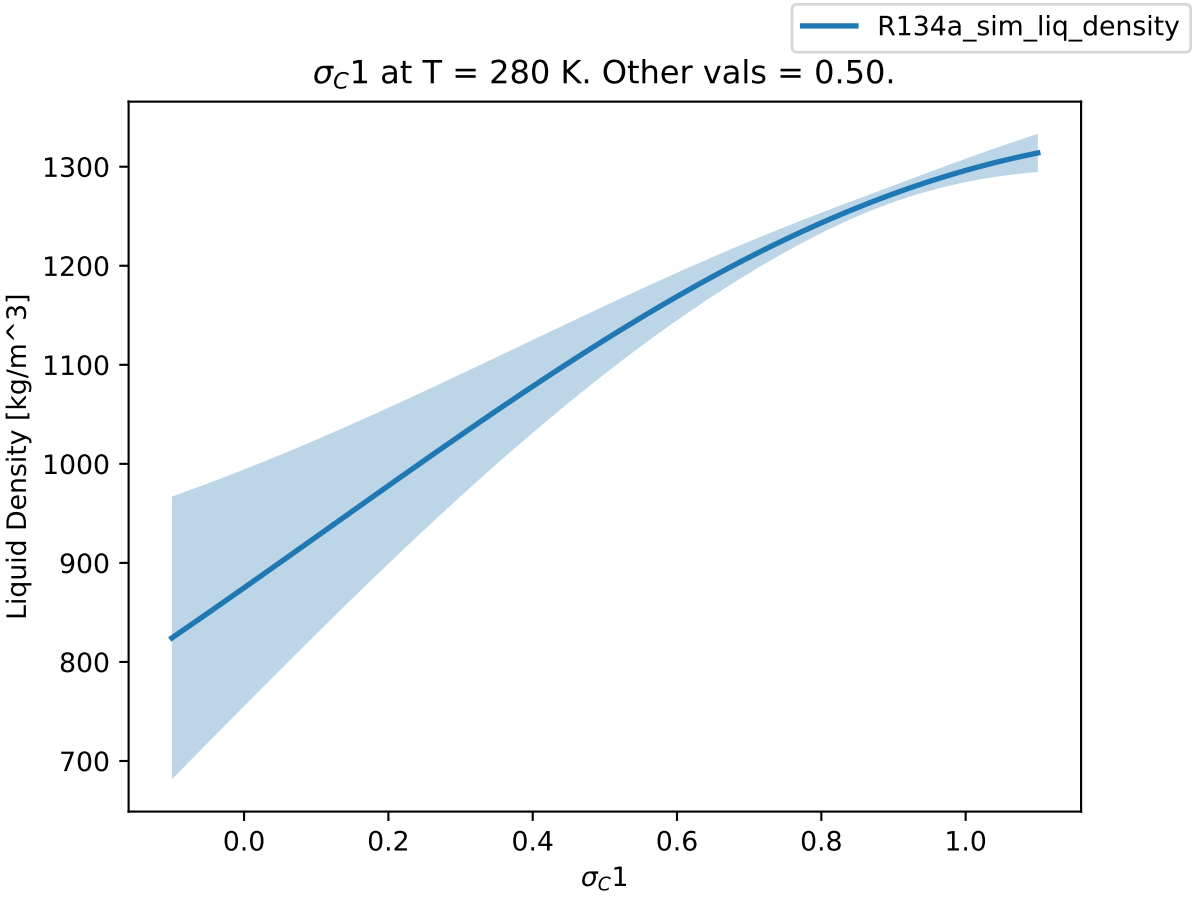

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

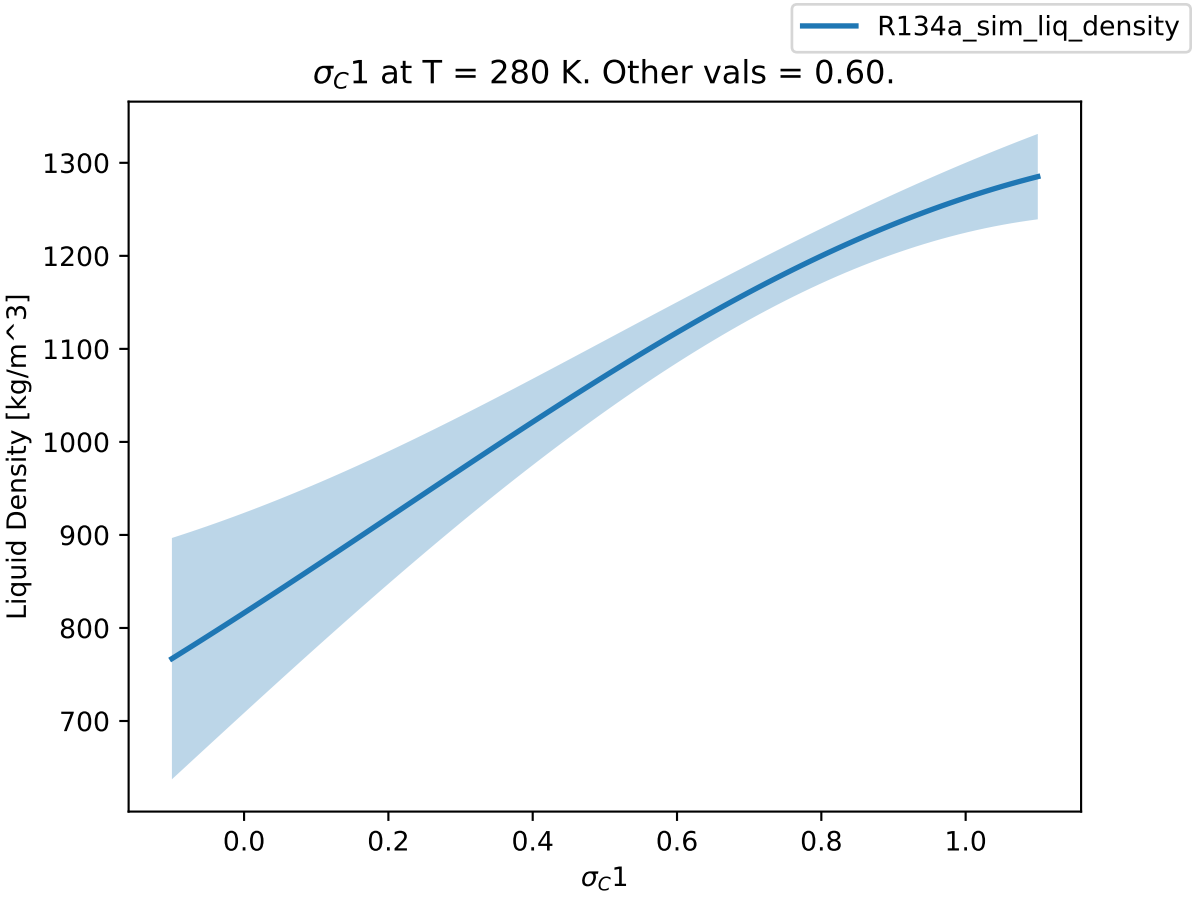

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.10.
1400
1200
1000
800
600
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

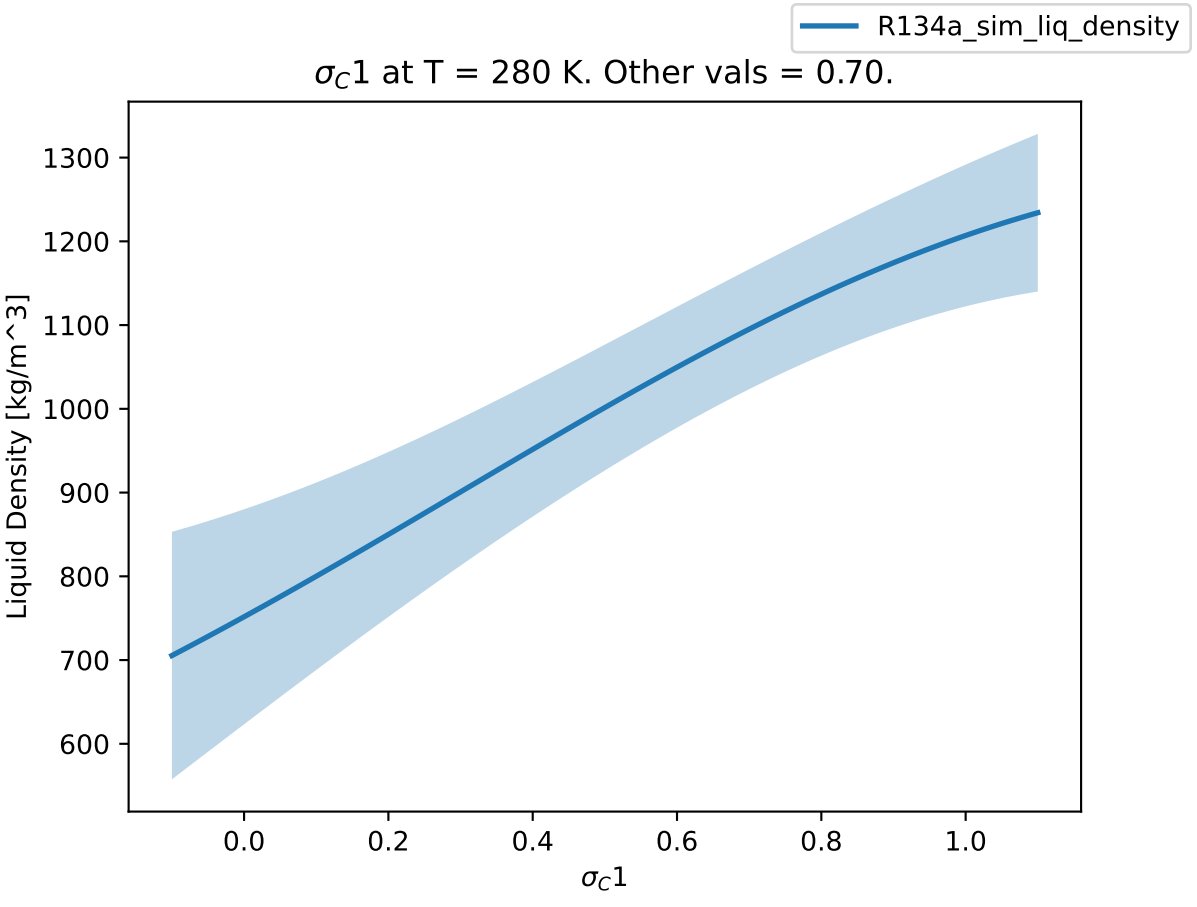

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

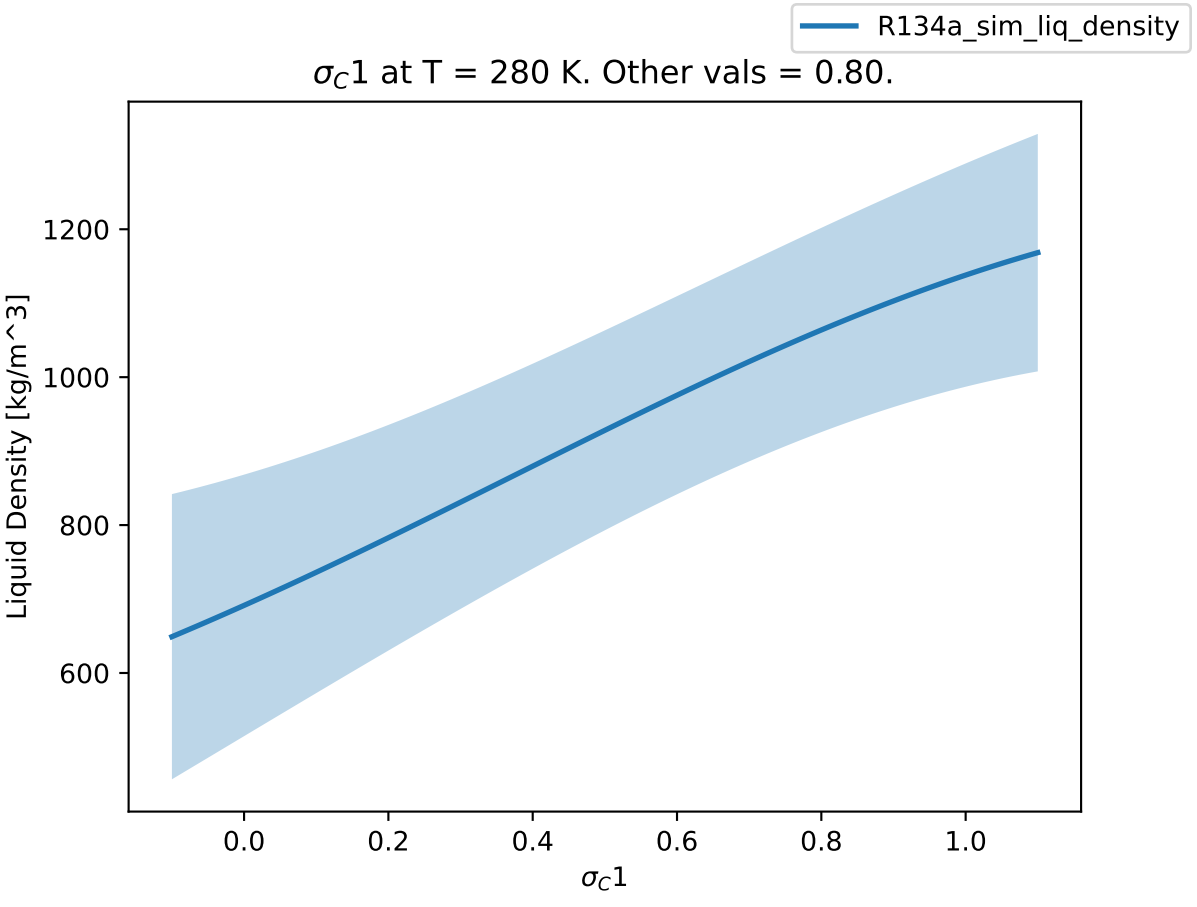

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

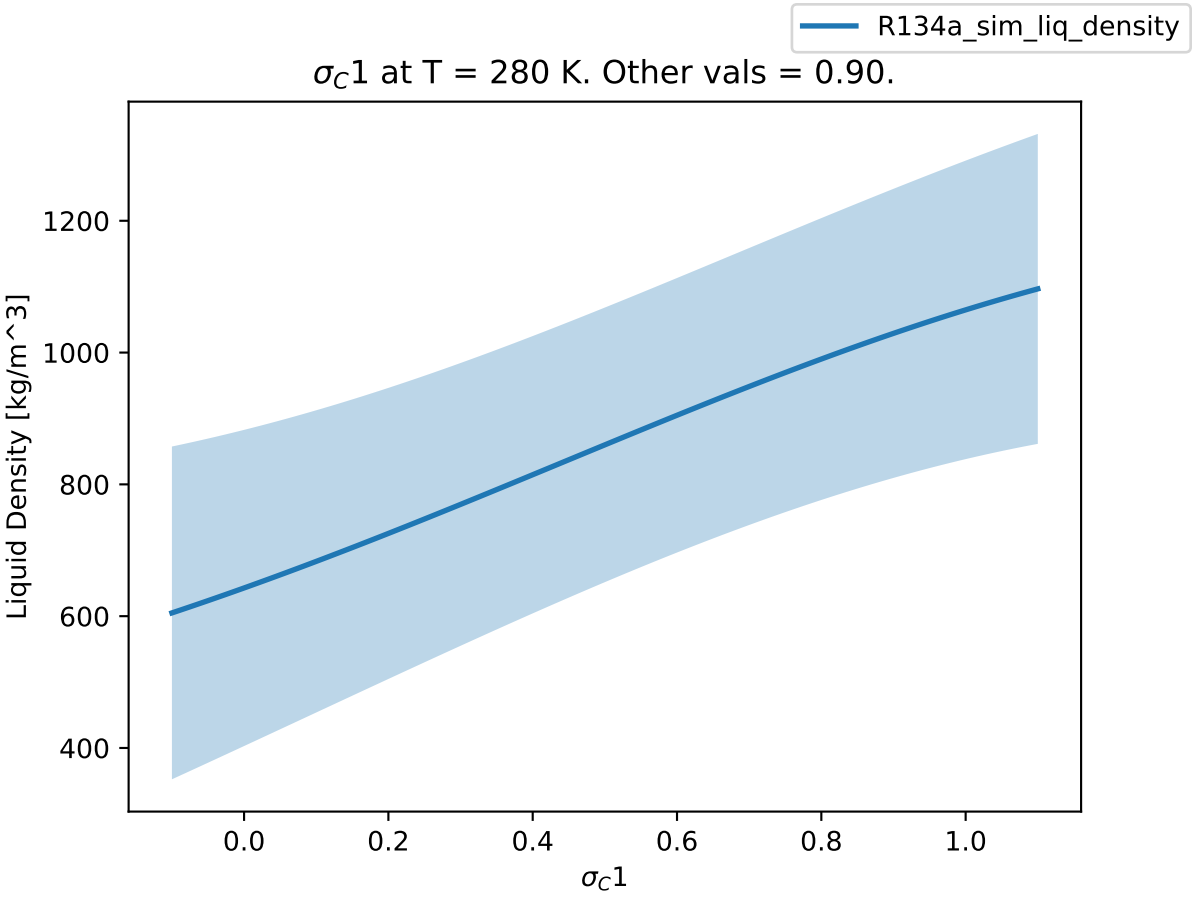

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

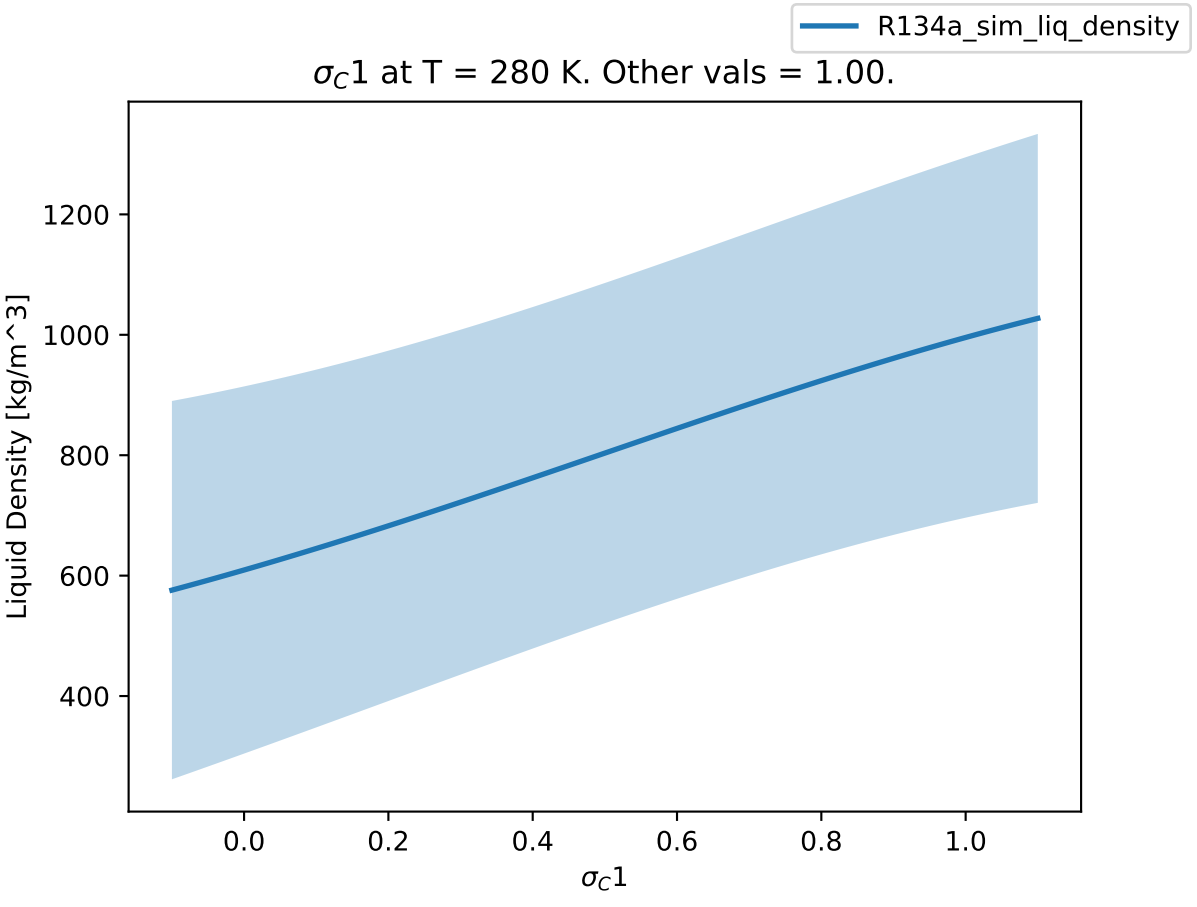

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

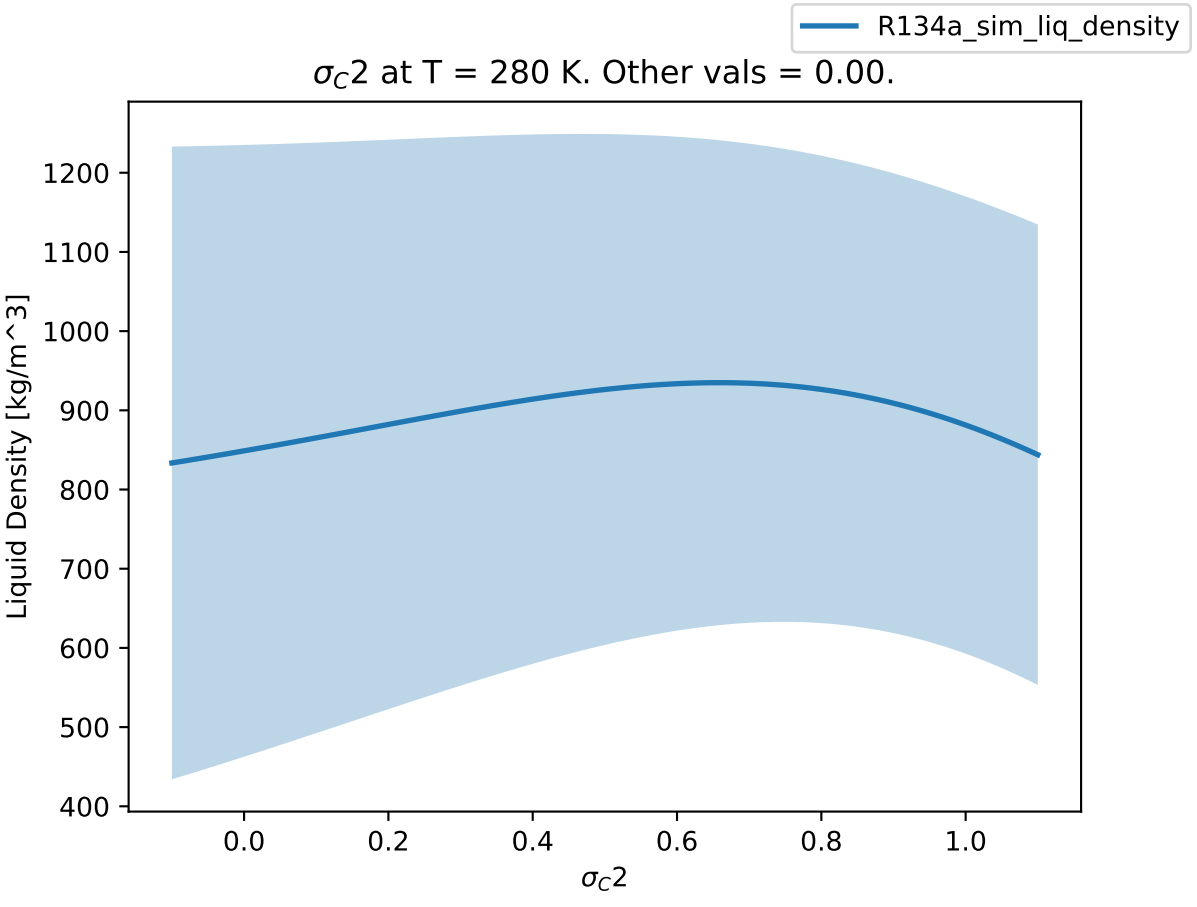

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

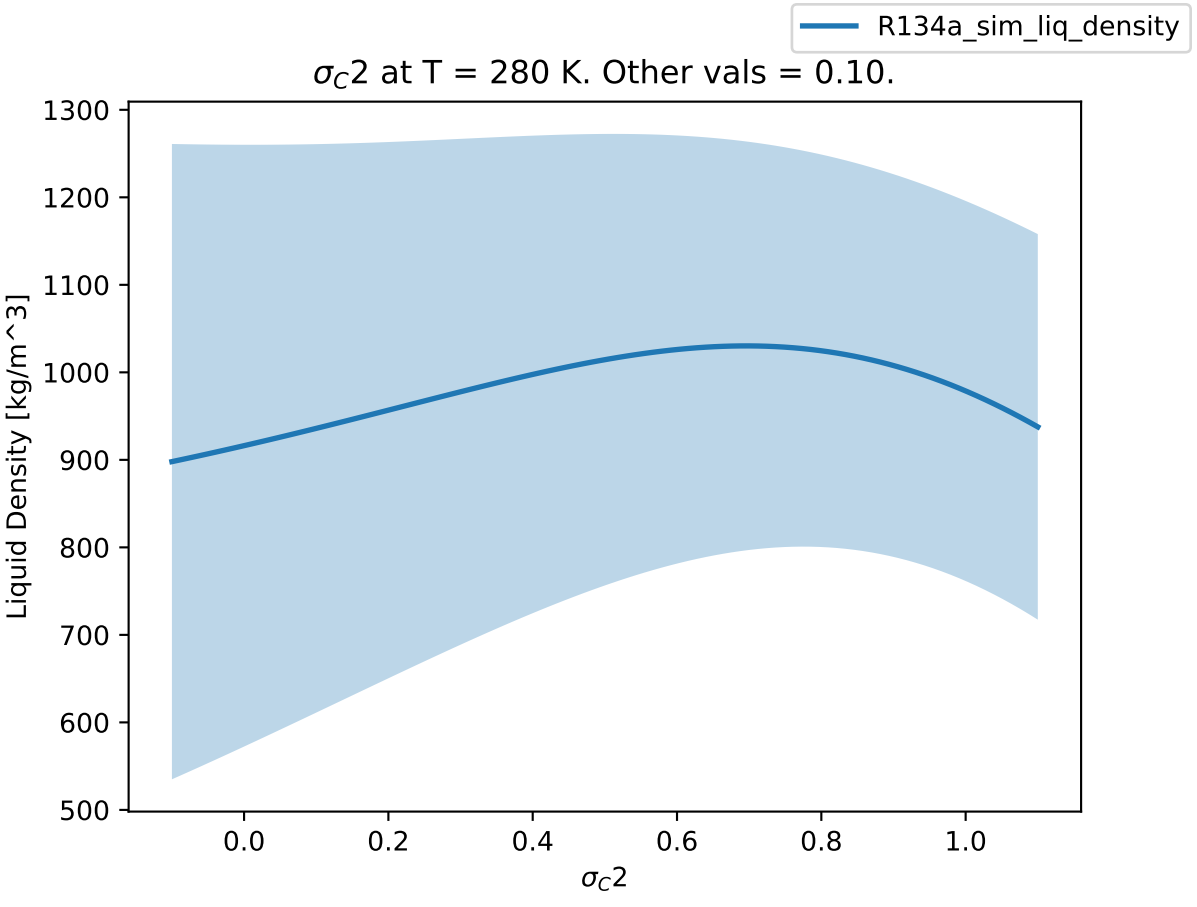

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

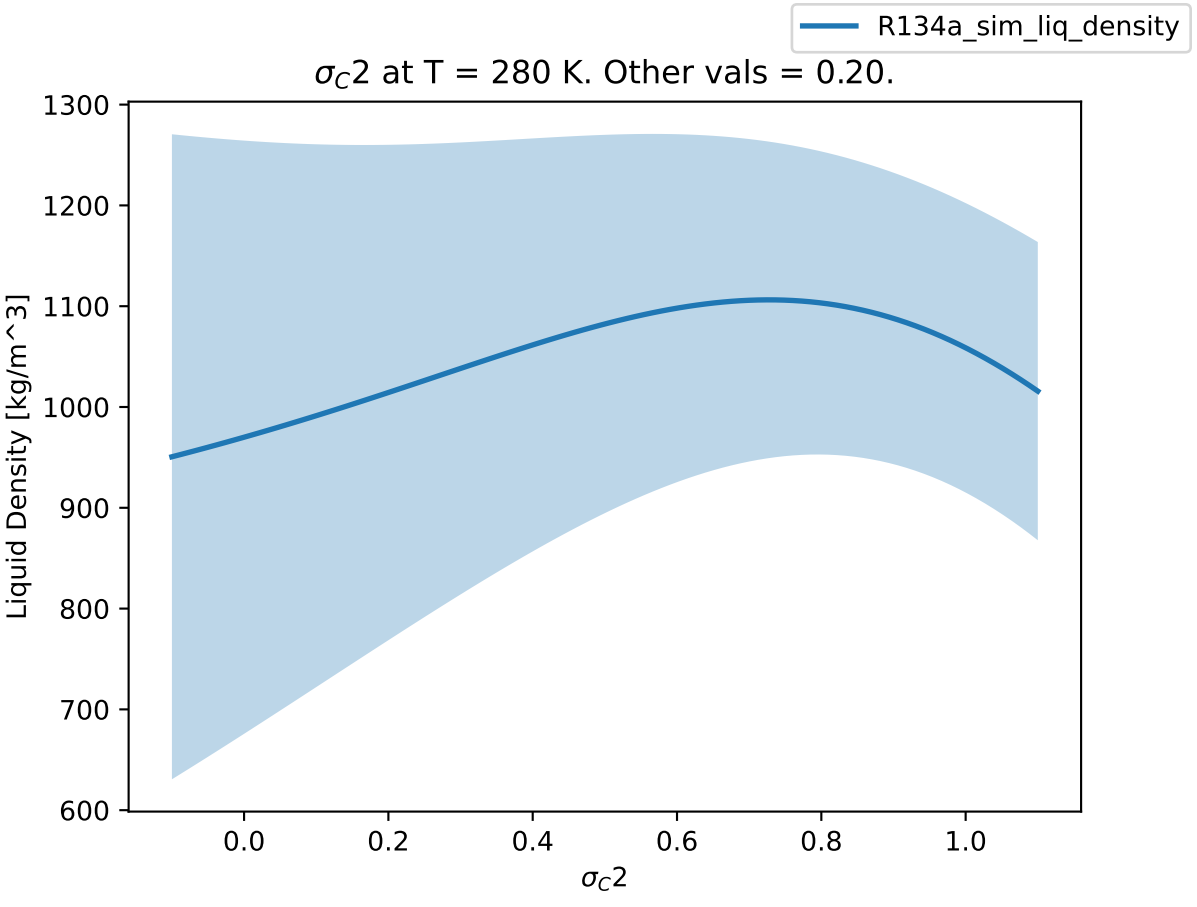

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

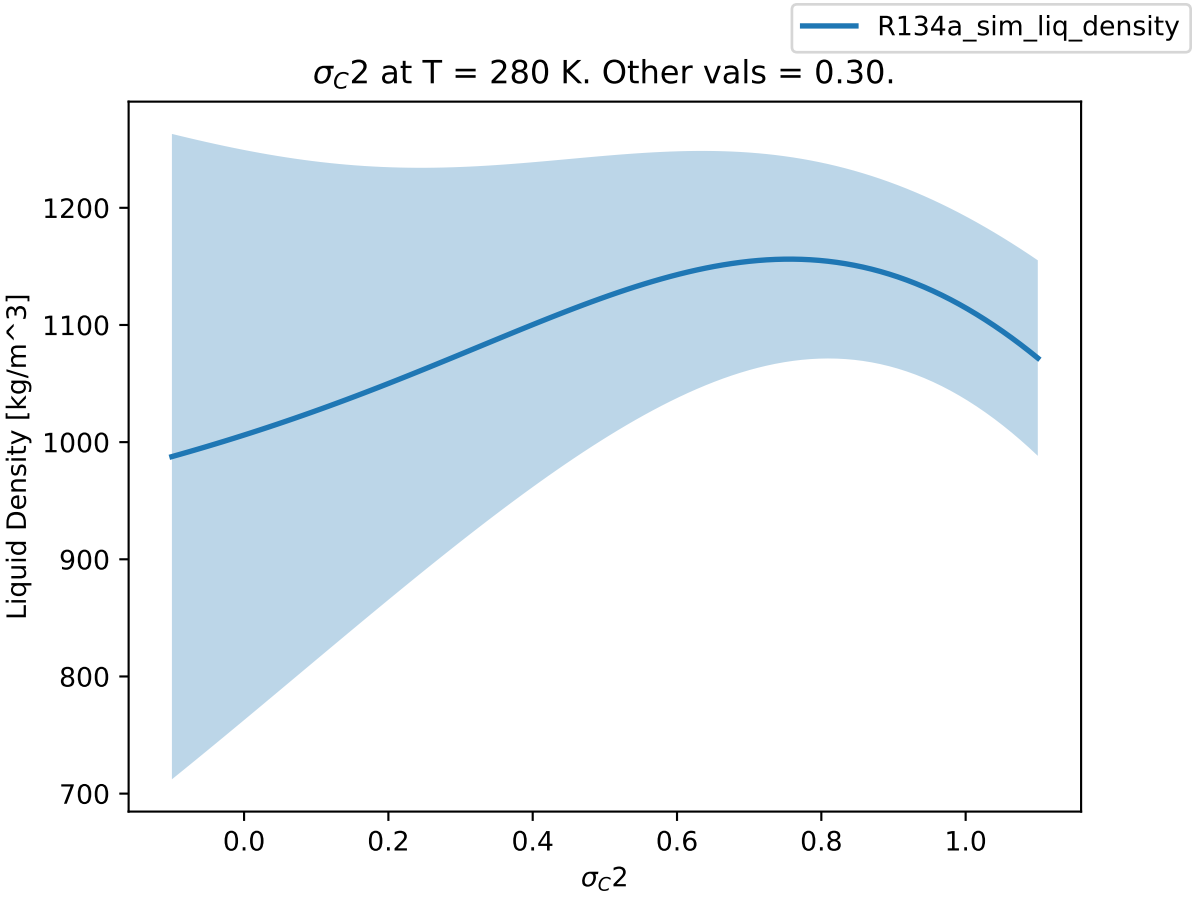

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

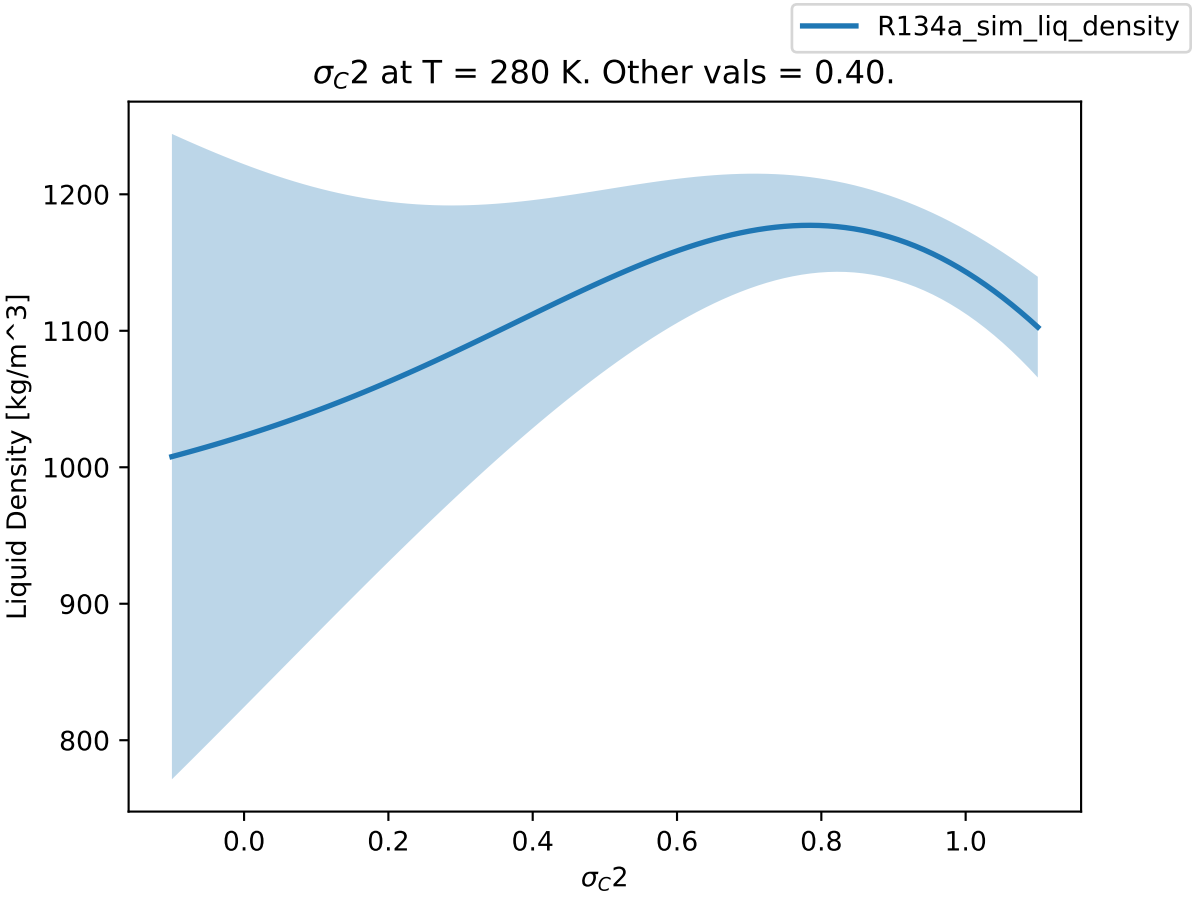

R134a_sim_liq_density
σ_C1 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

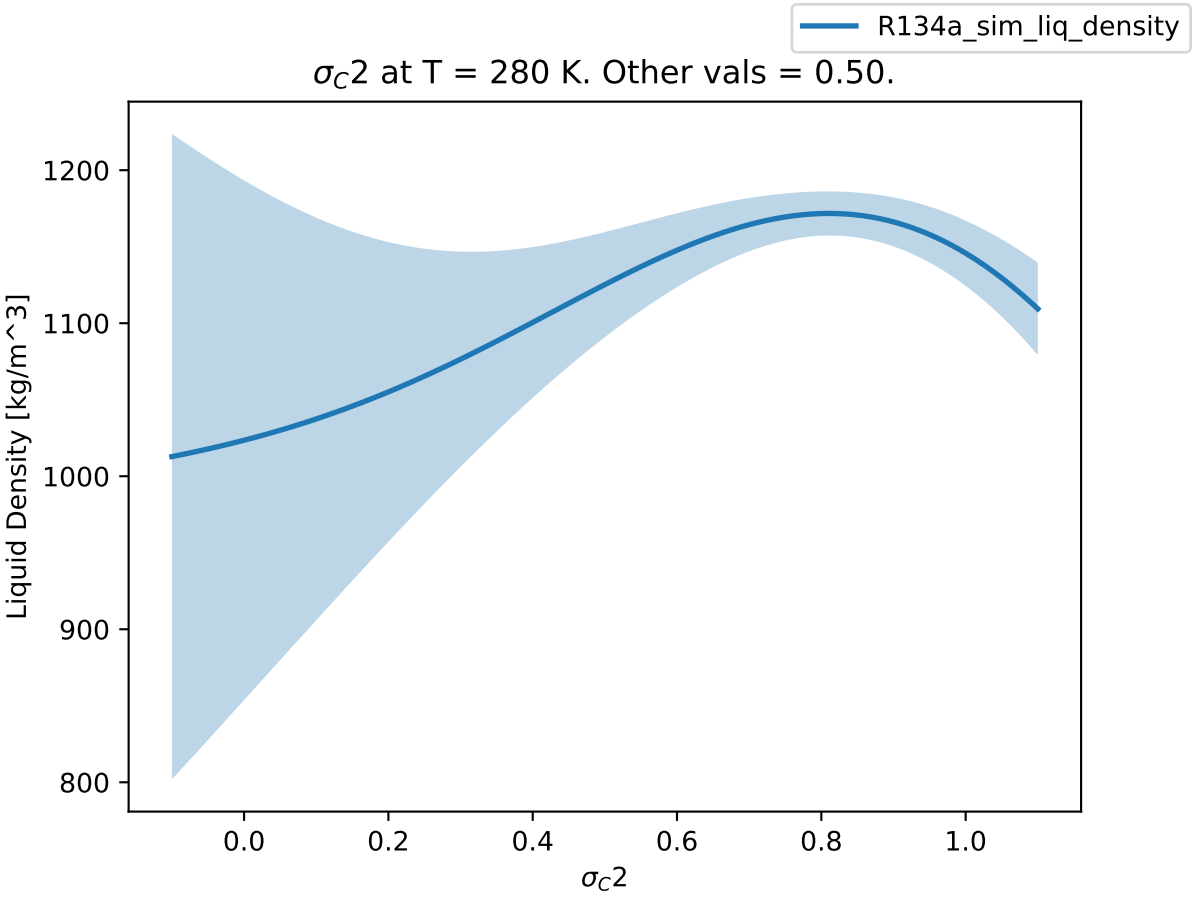

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

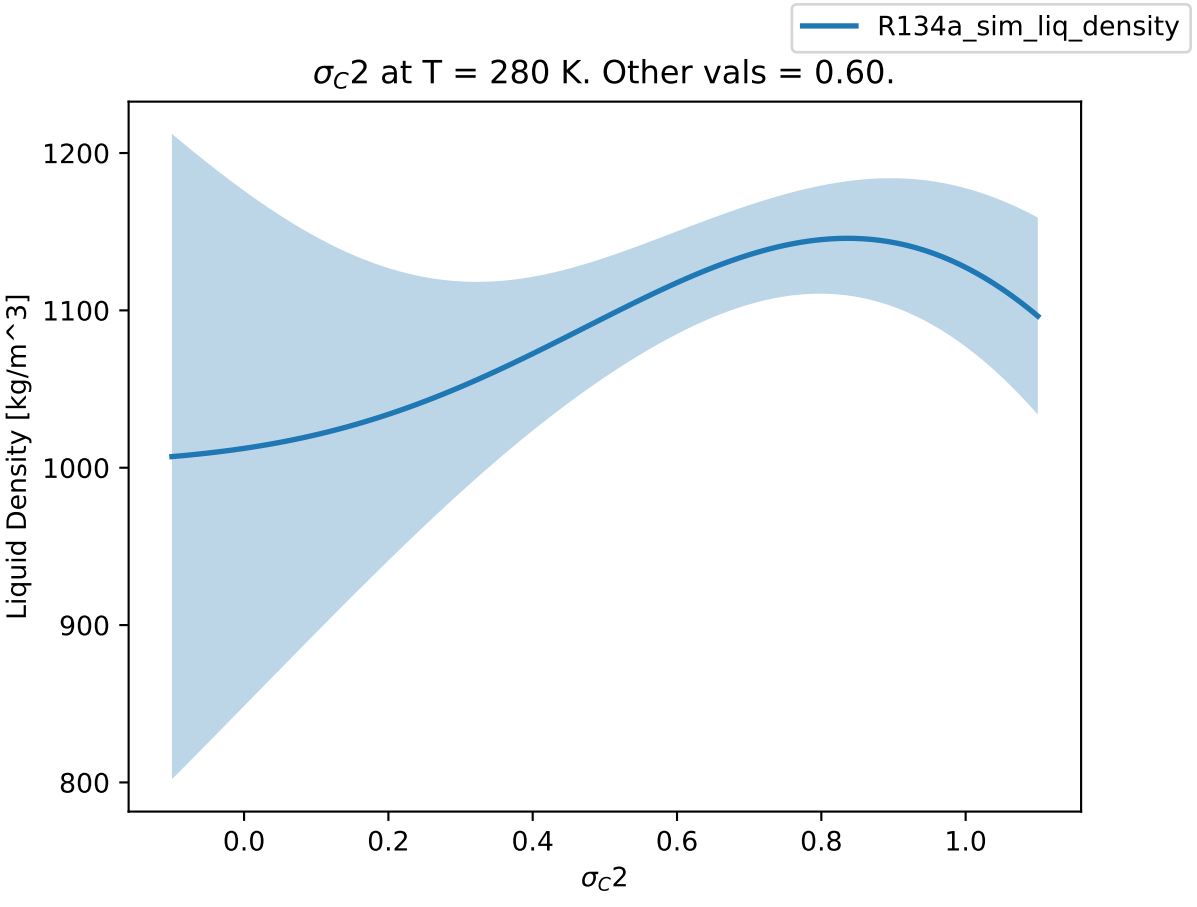

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

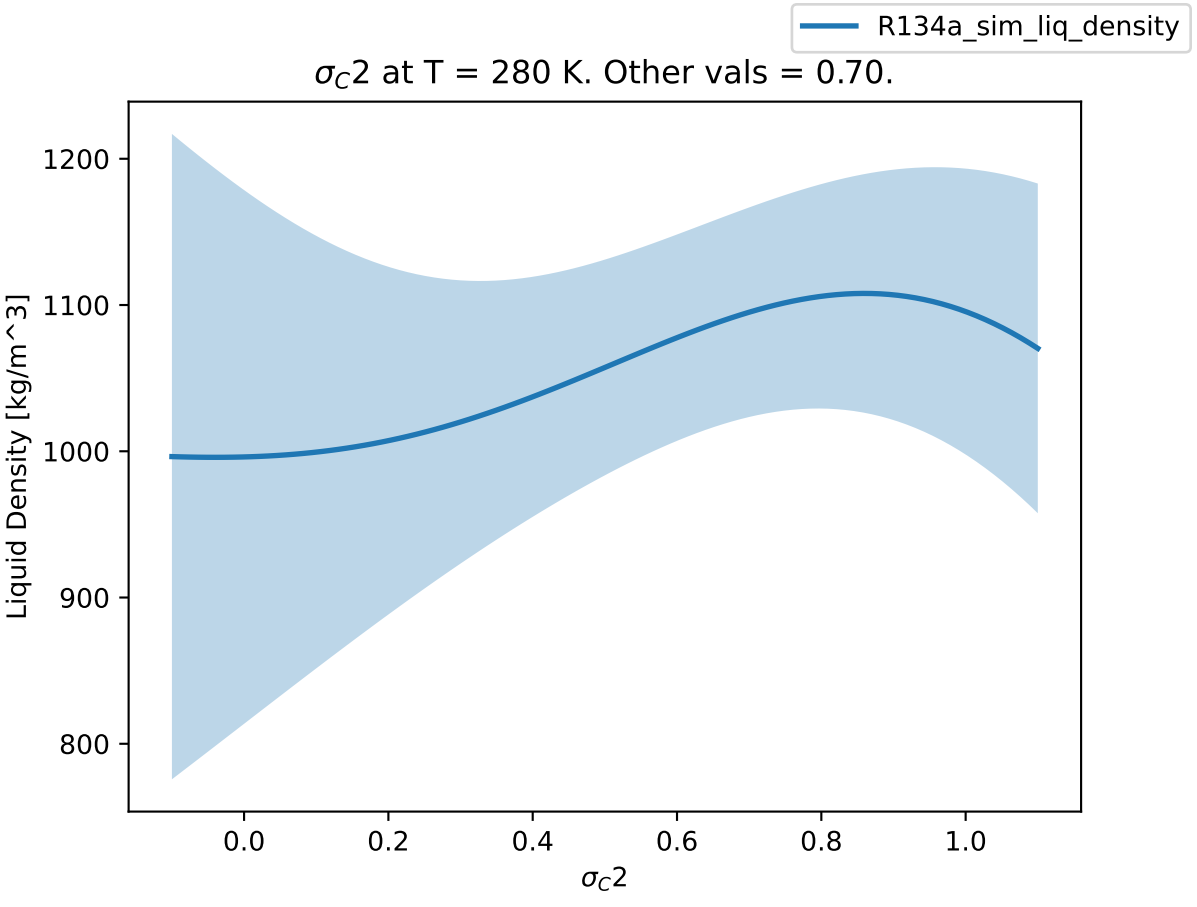

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

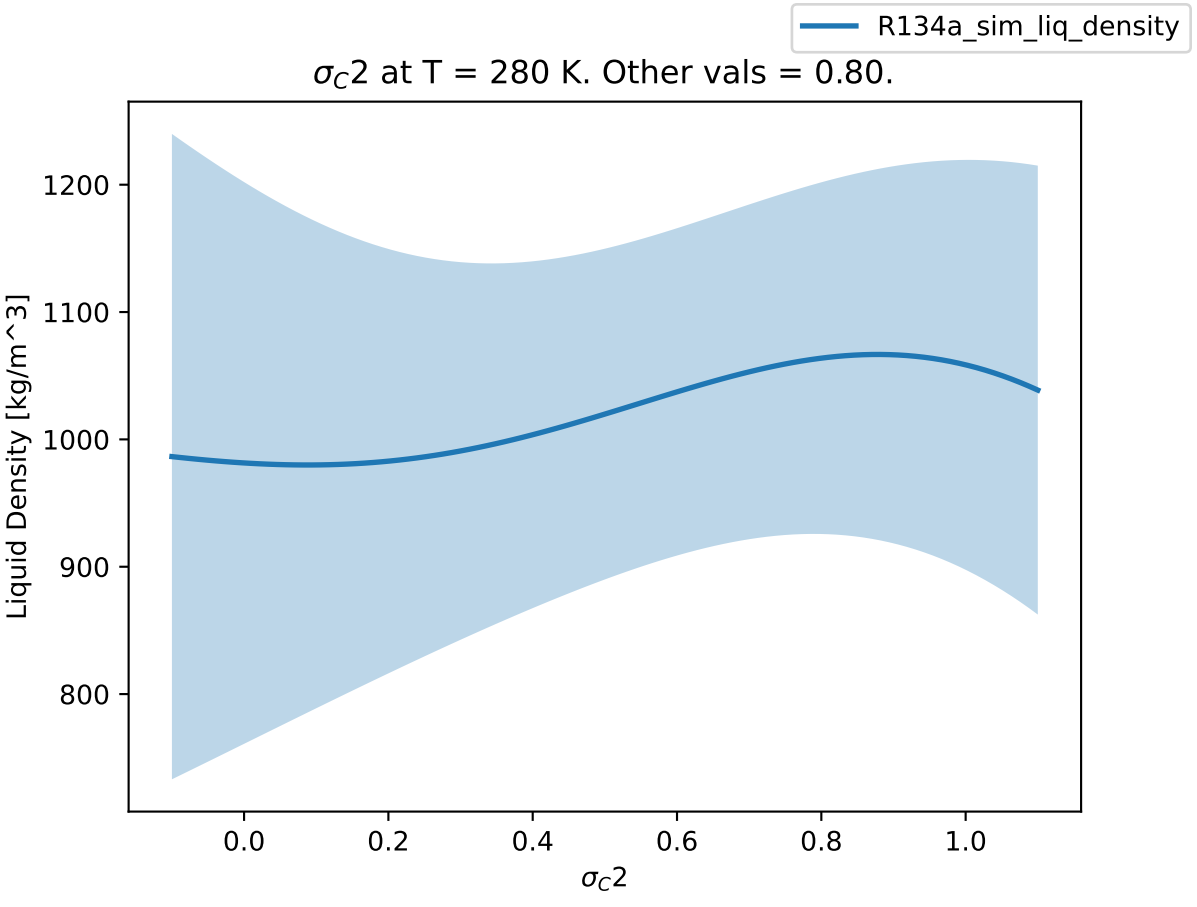

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

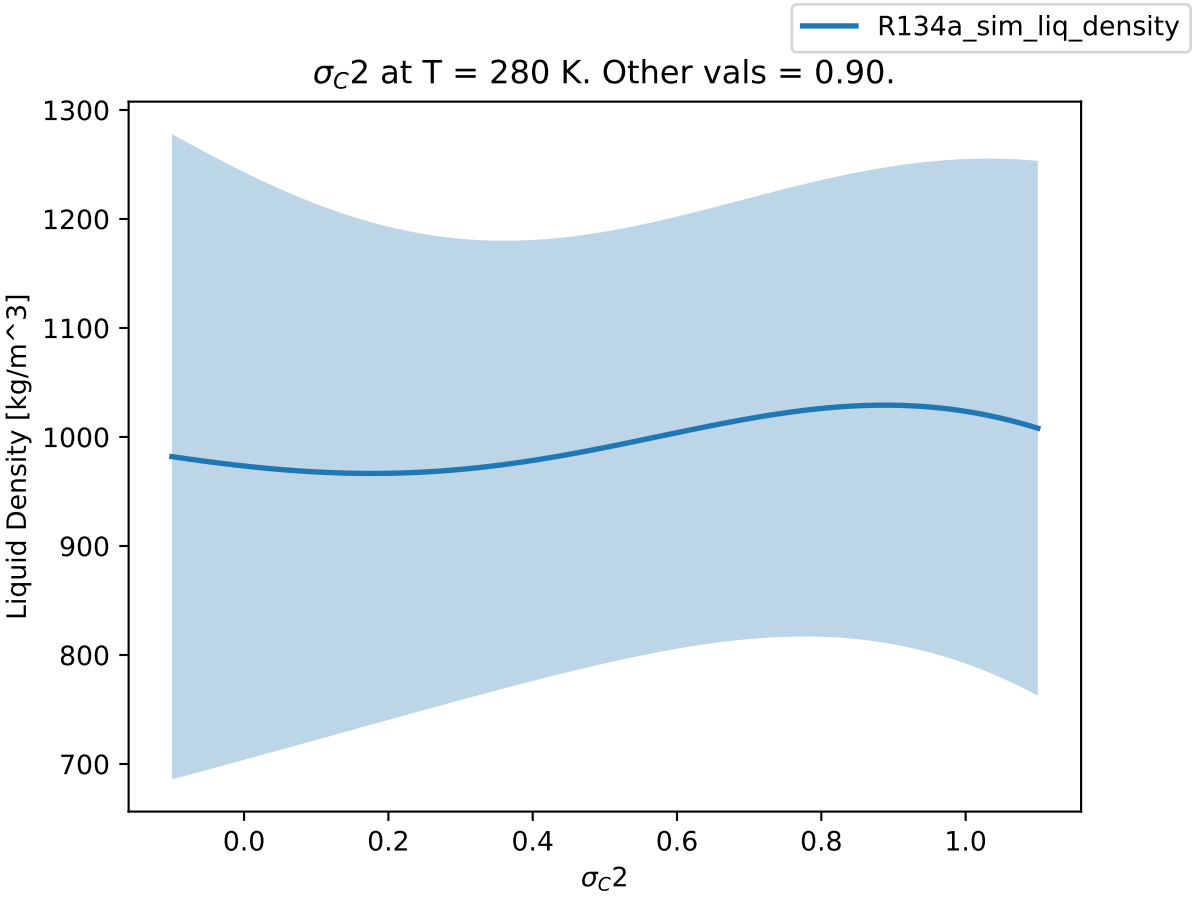

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

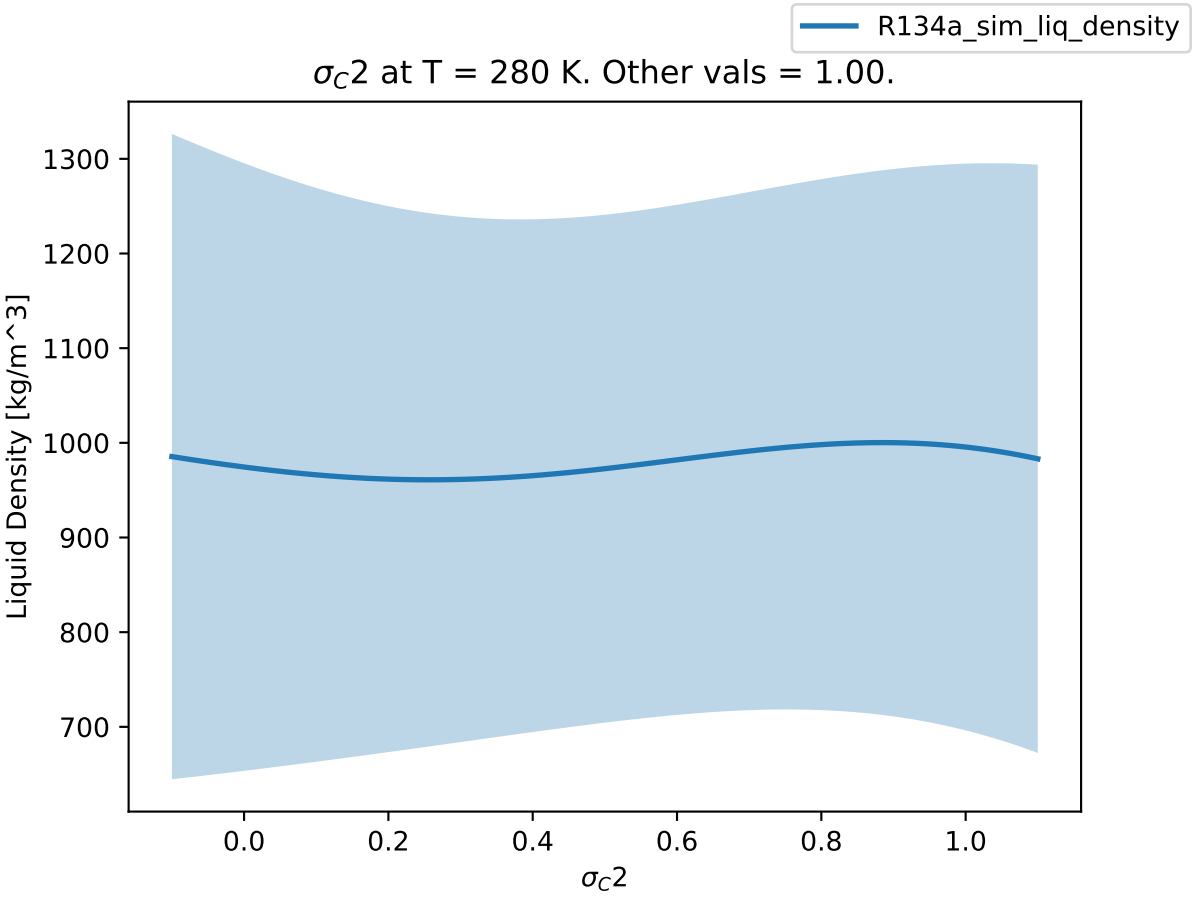

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

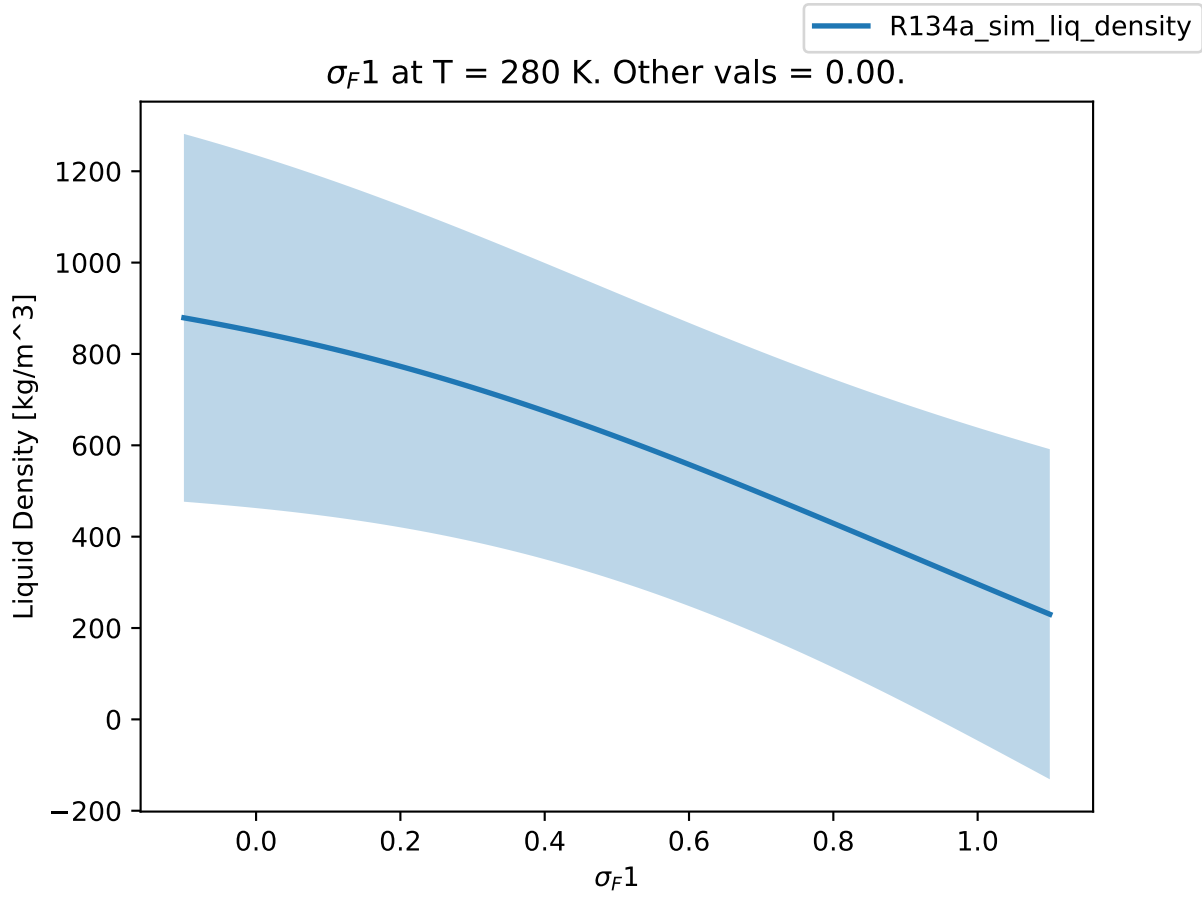

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

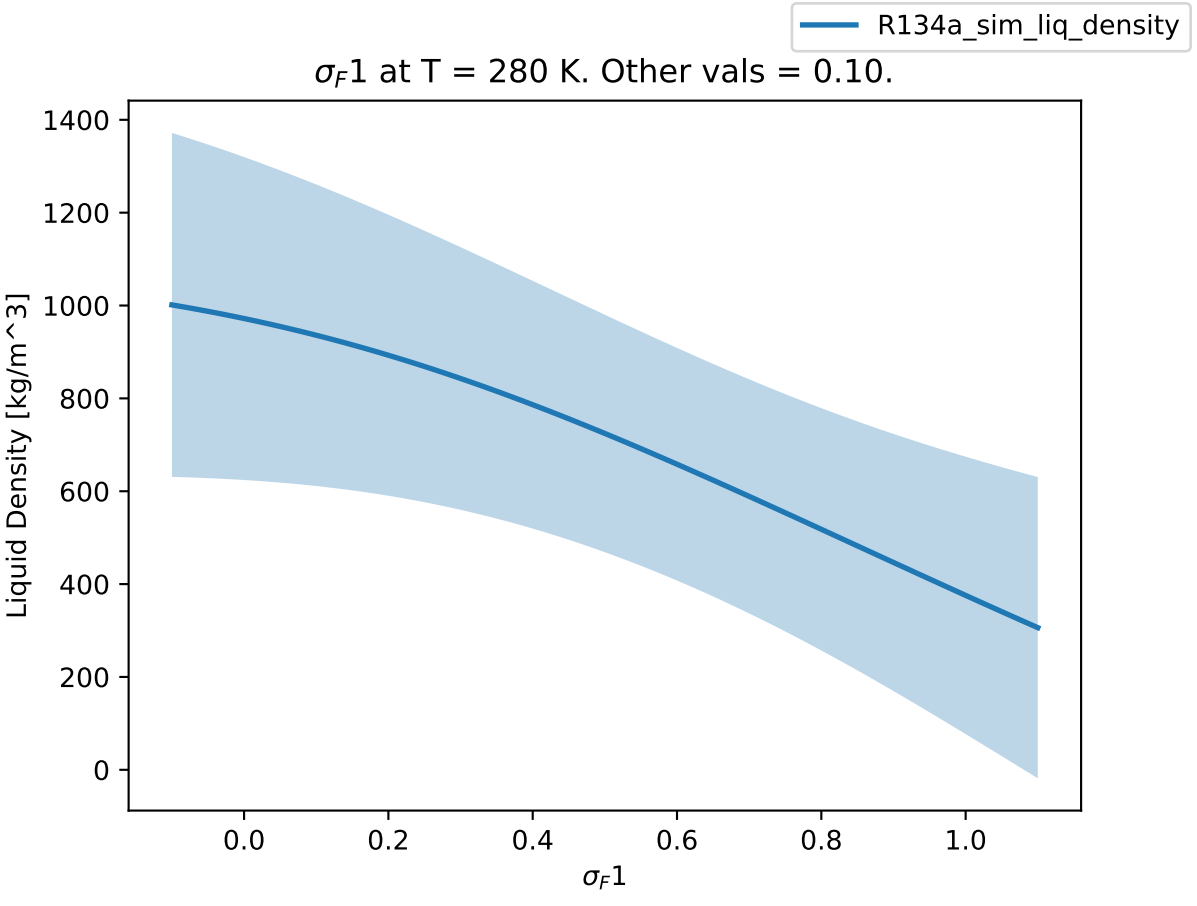

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

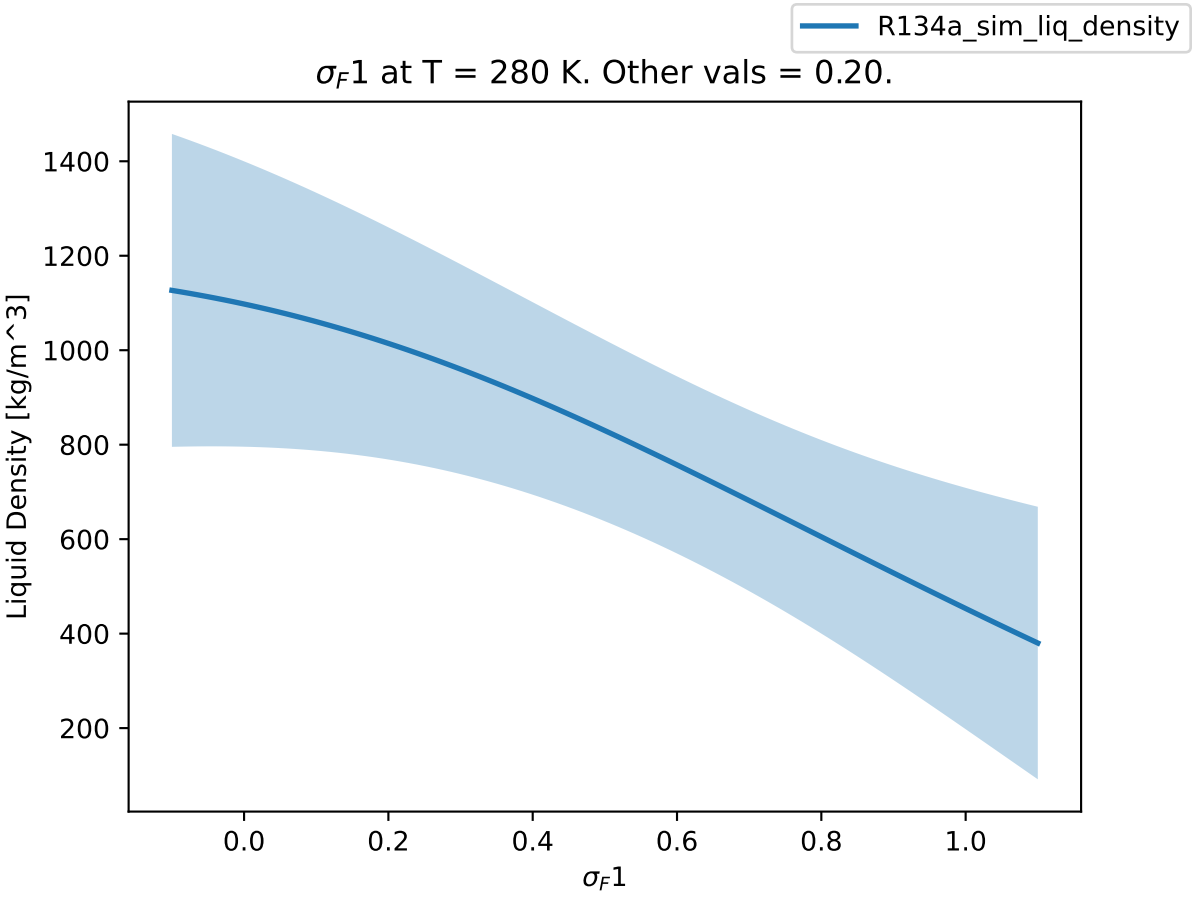

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

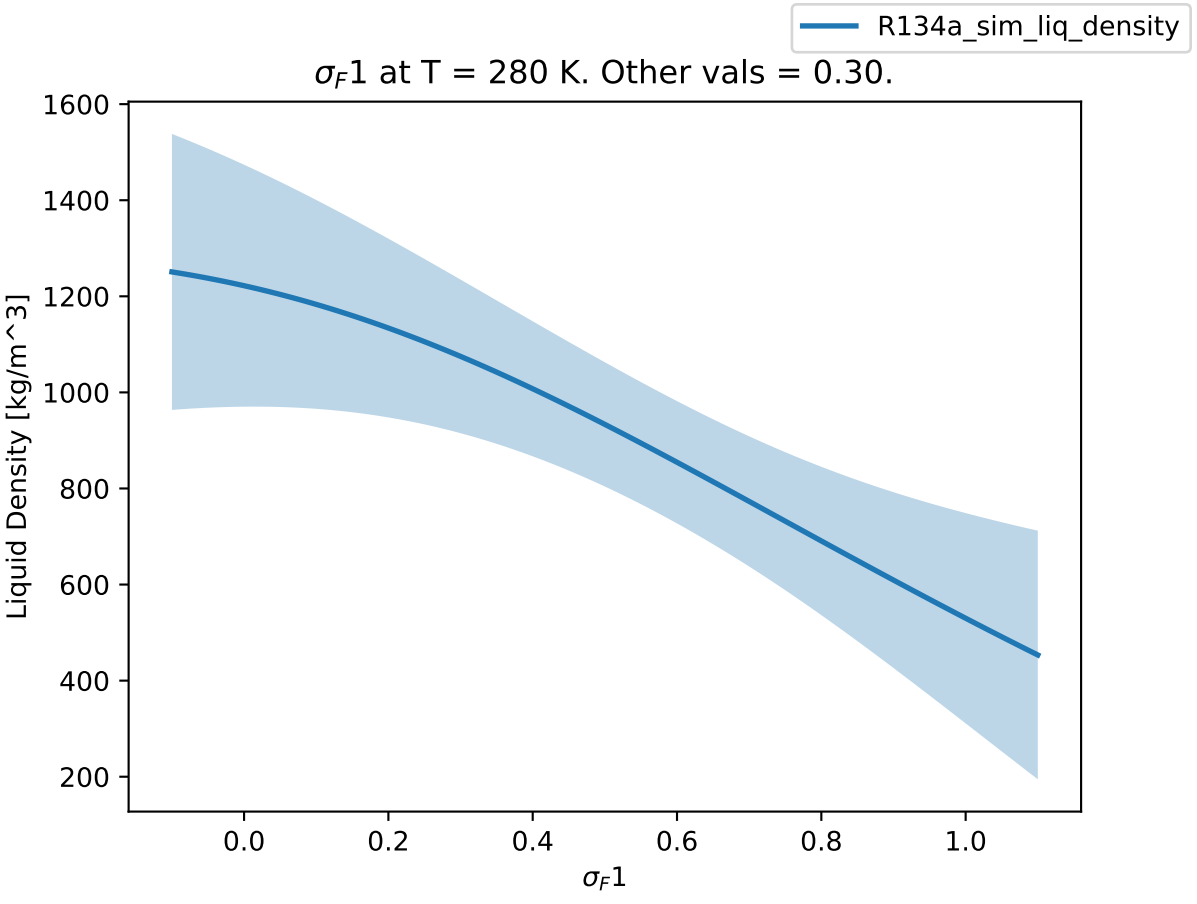

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

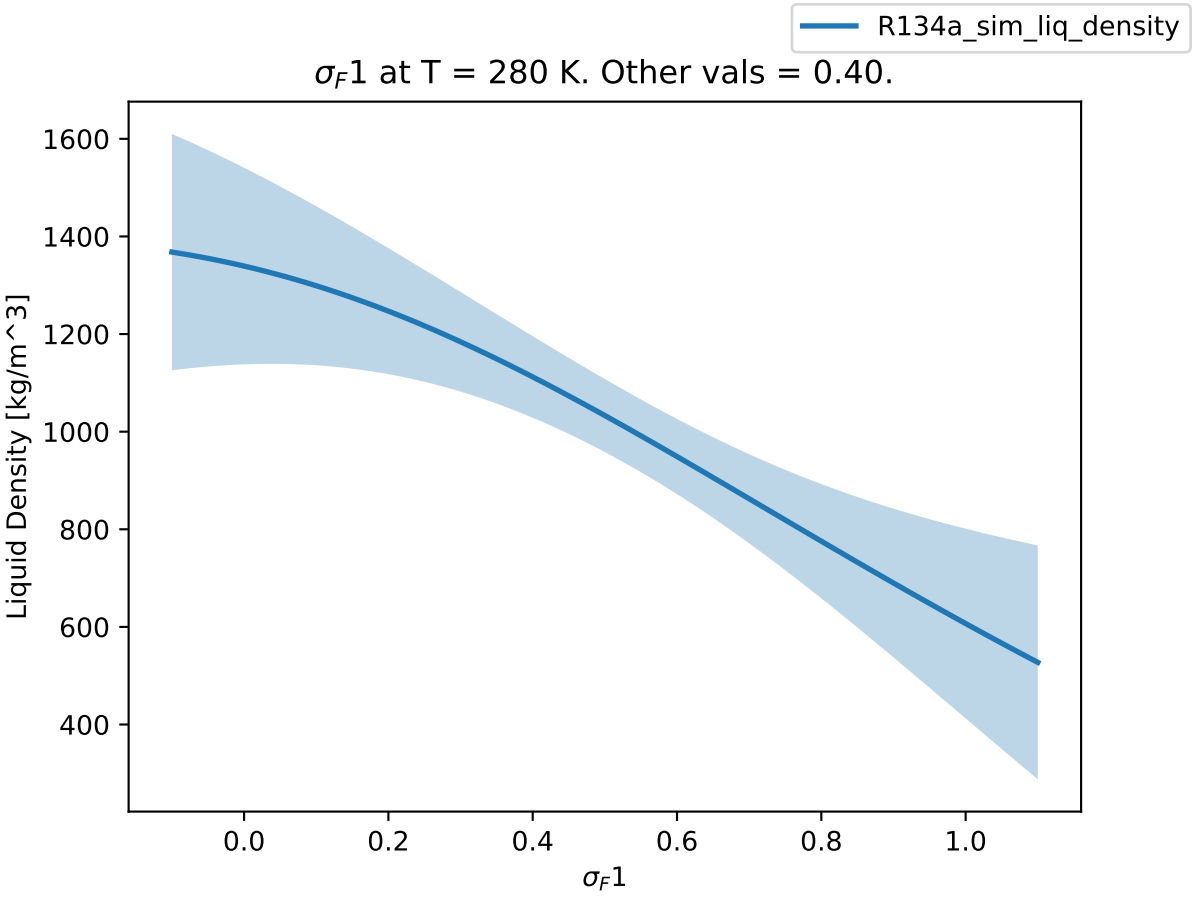

R134a_sim_liq_density
σ_C2 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

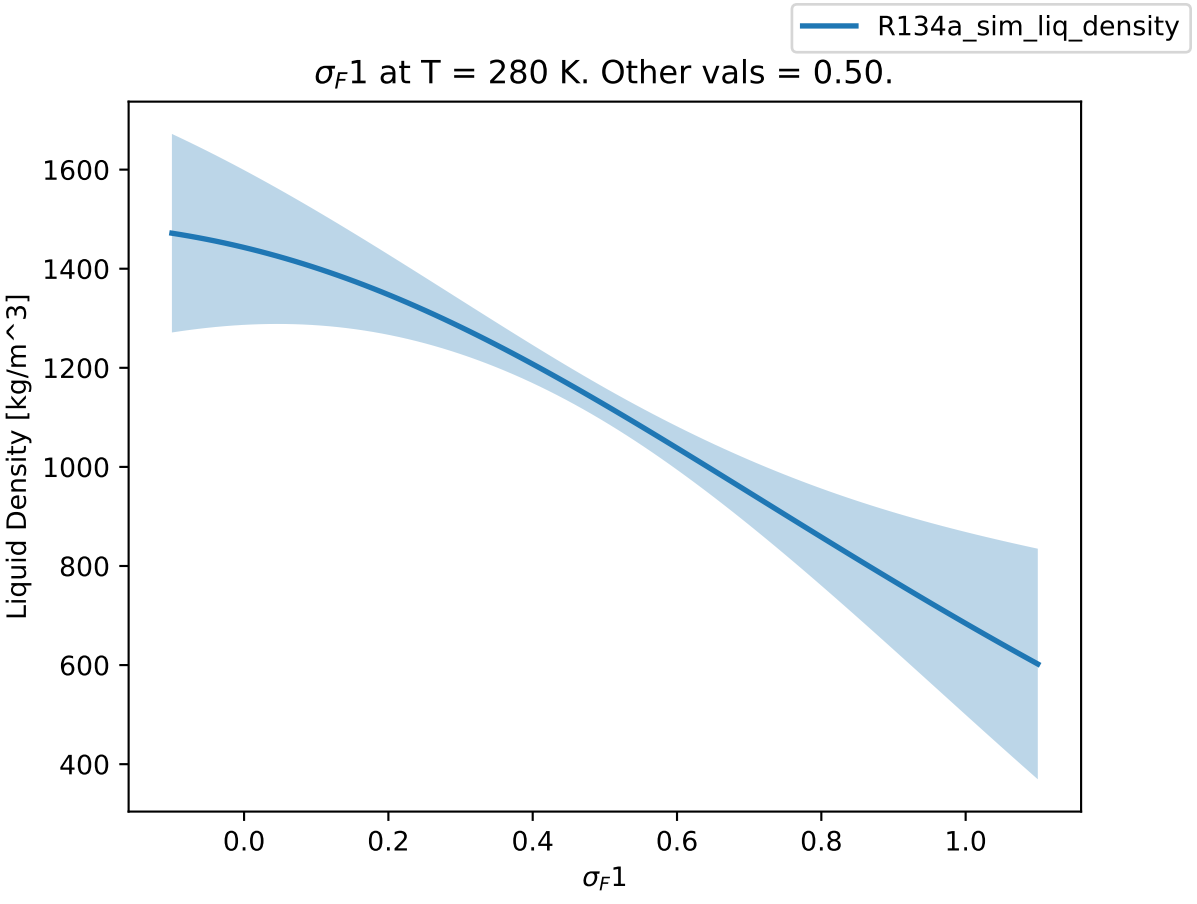

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
200
0
−200
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

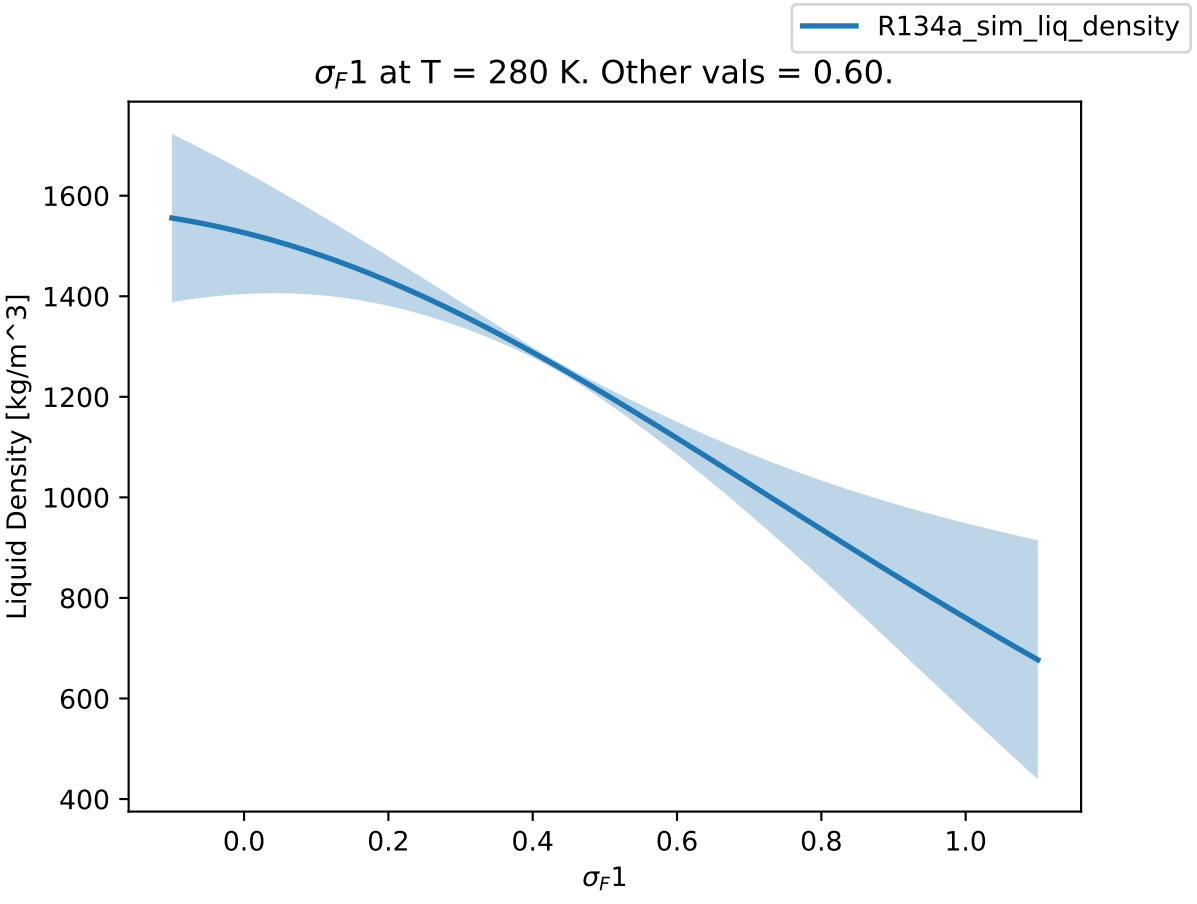

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

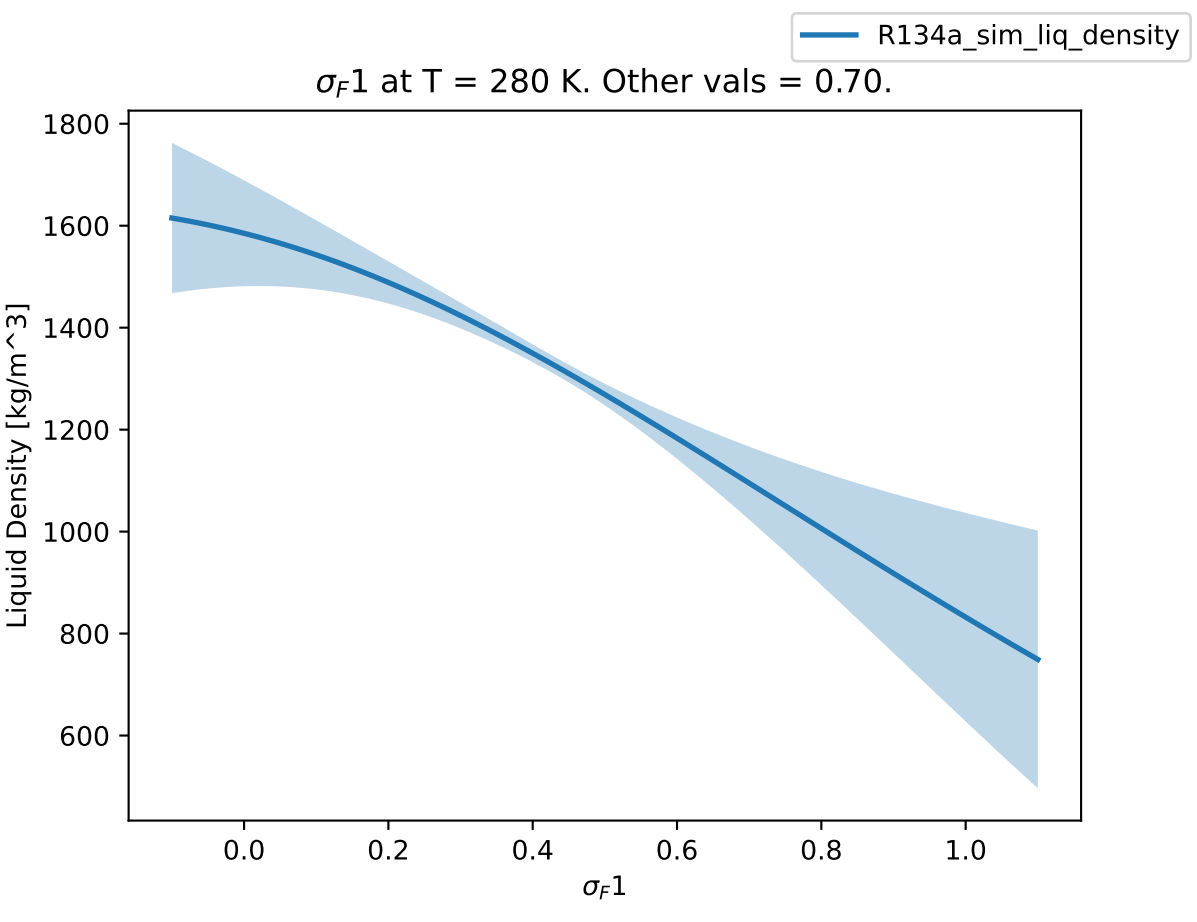

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

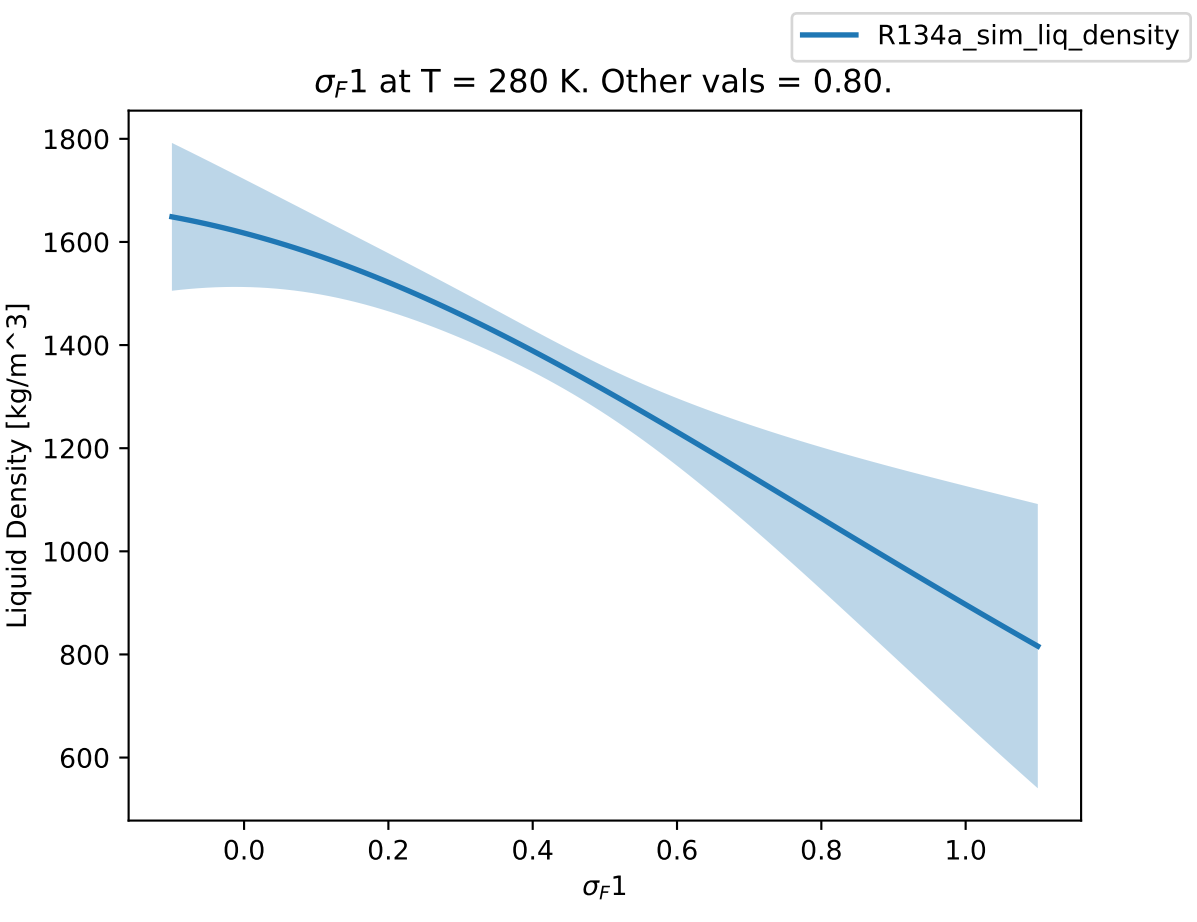

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

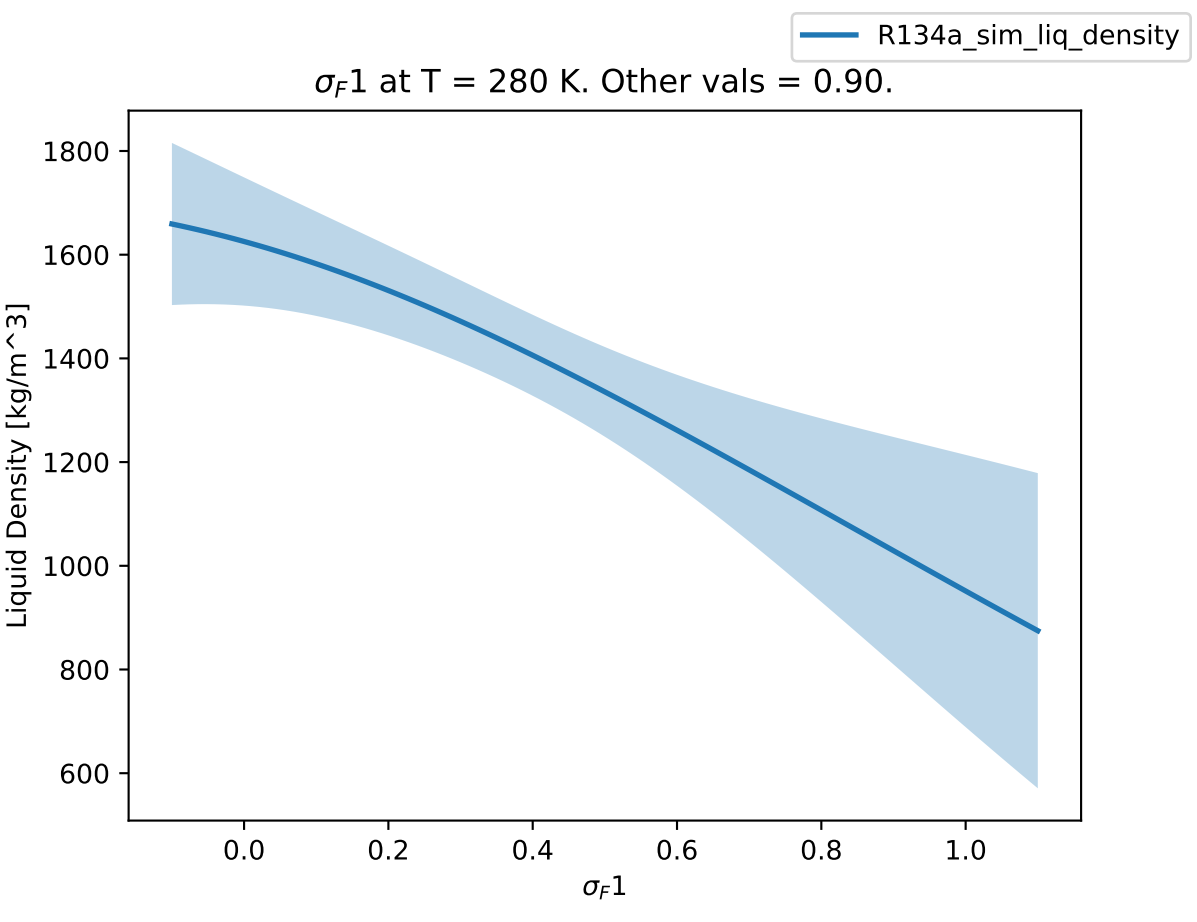

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

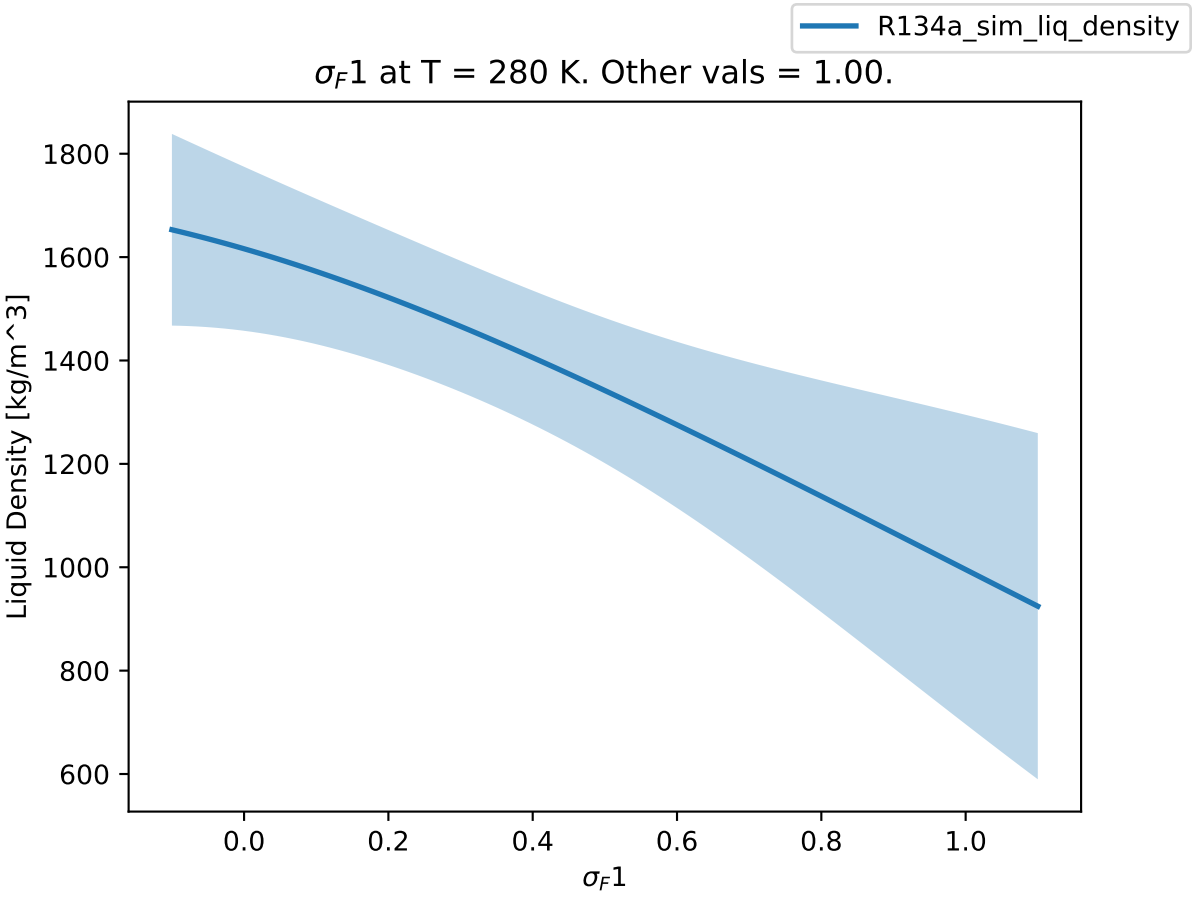

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

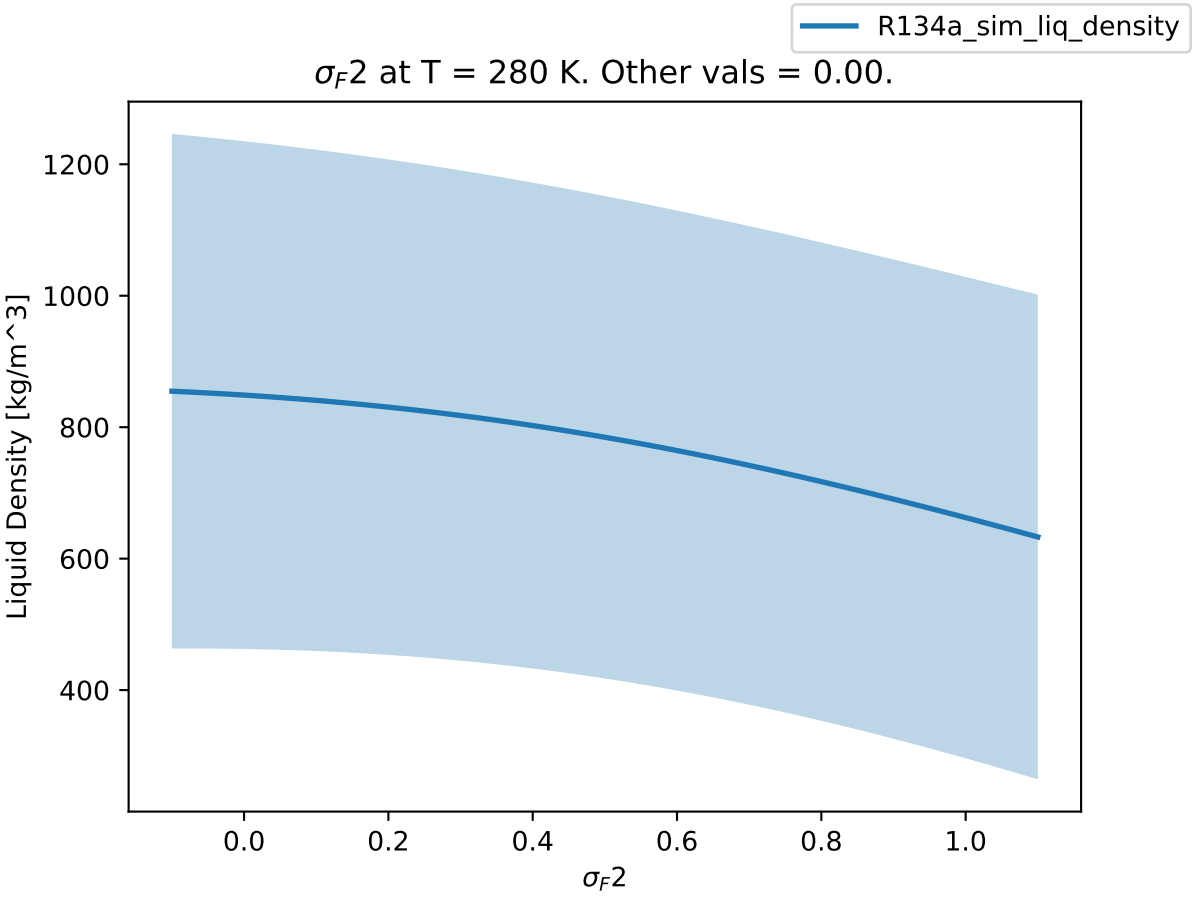

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

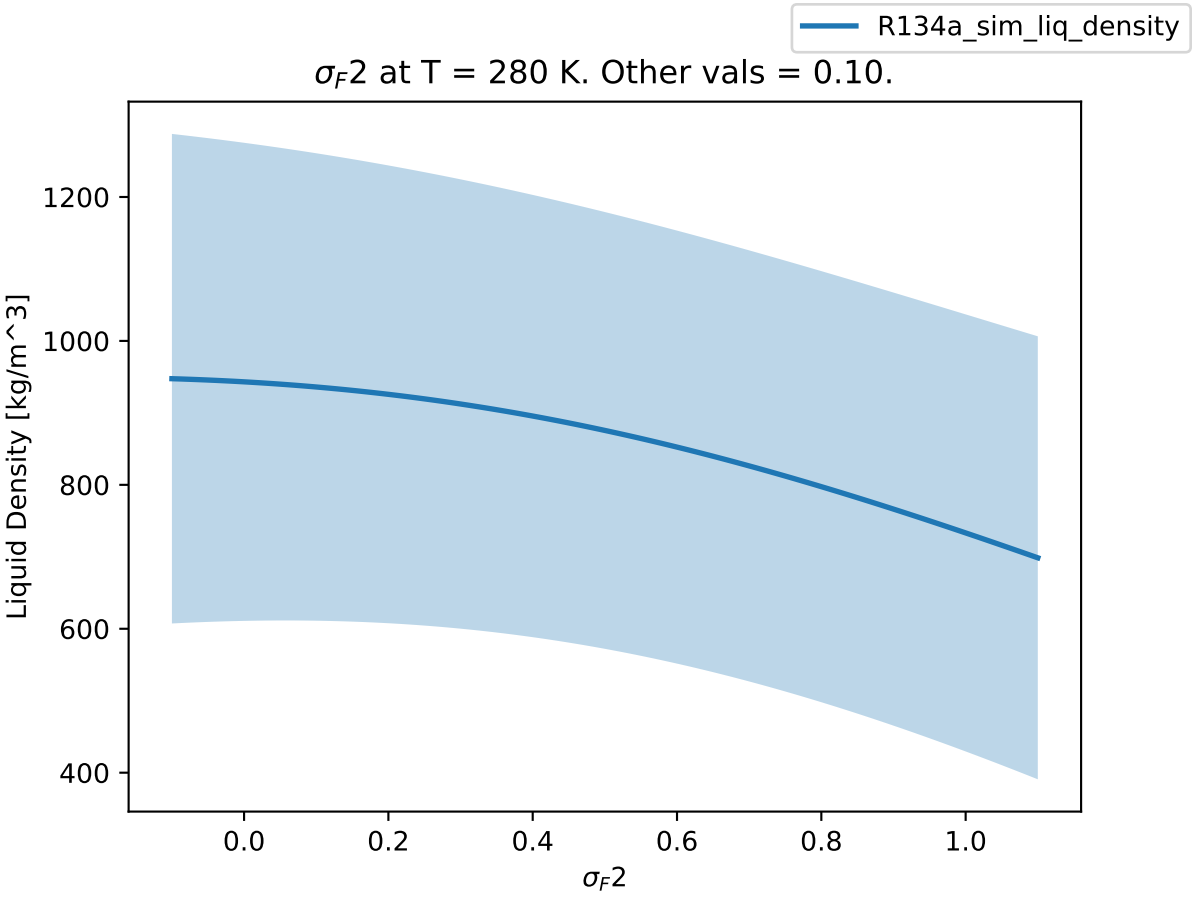

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1800
1600
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

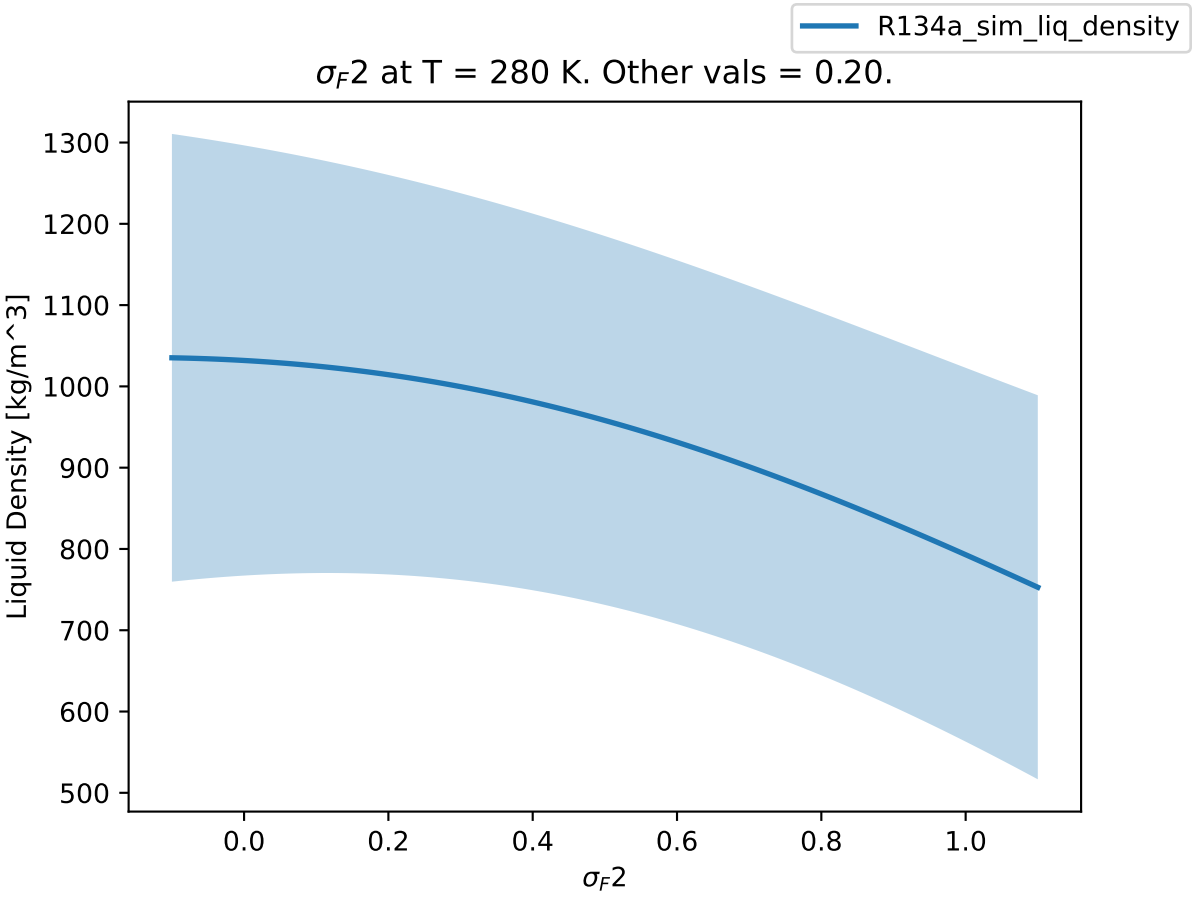

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1800
1600
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

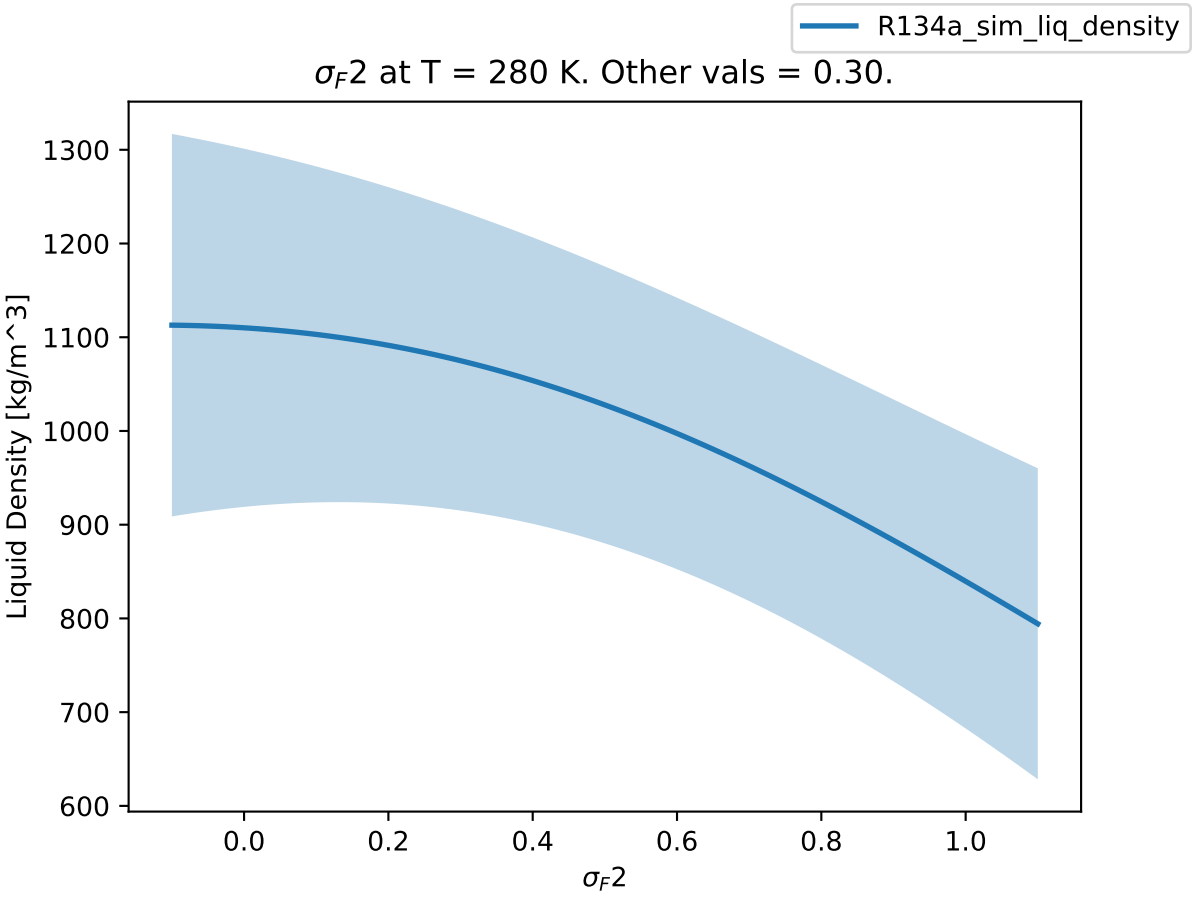

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1800
1600
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

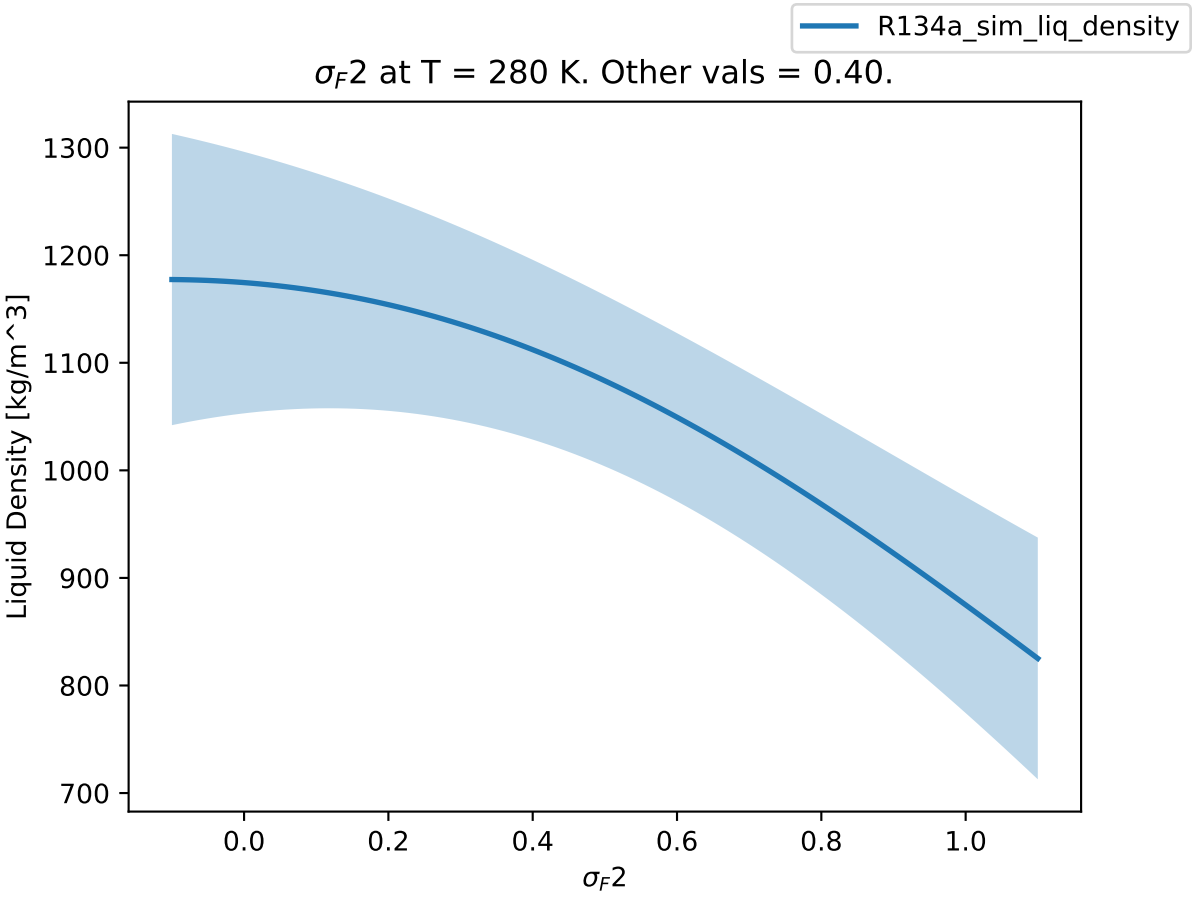

R134a_sim_liq_density
σ_F1 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1800
1600
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

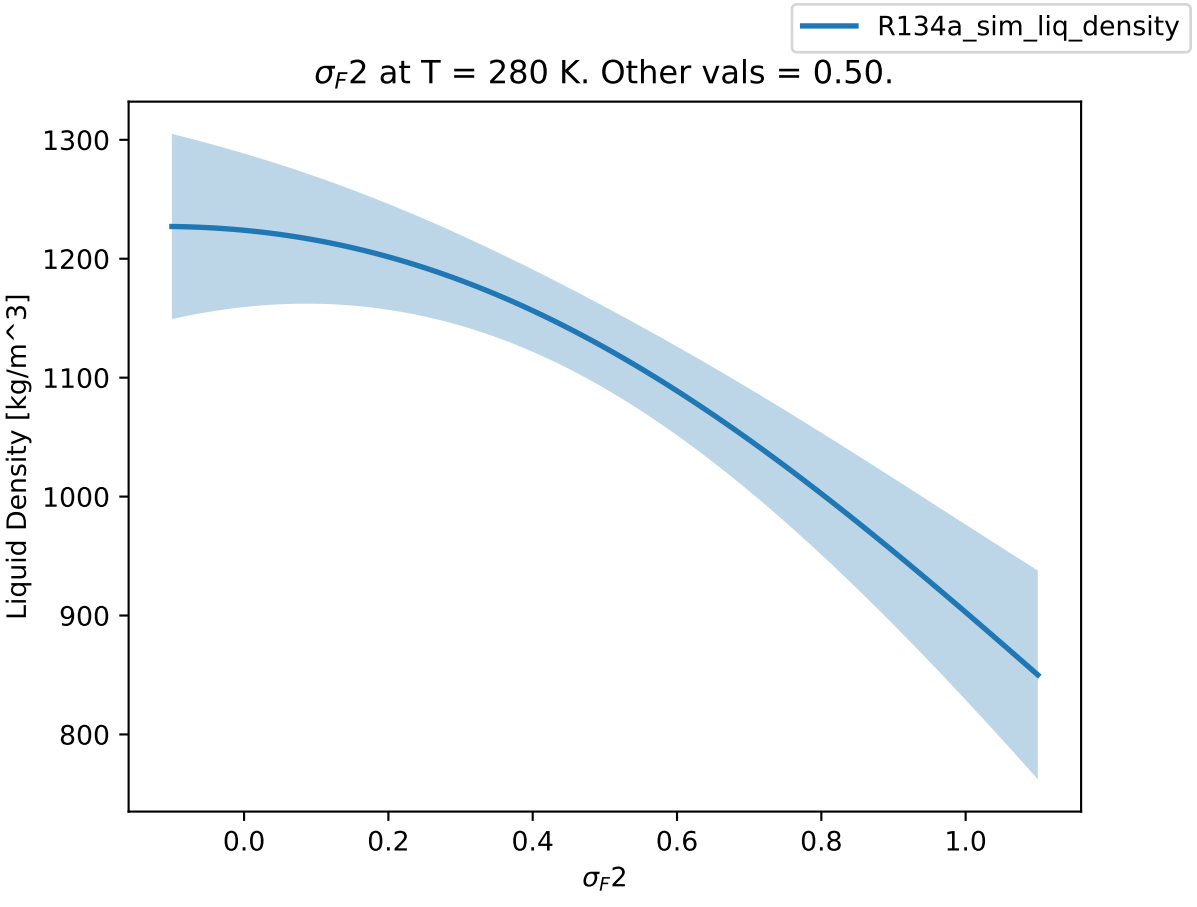

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

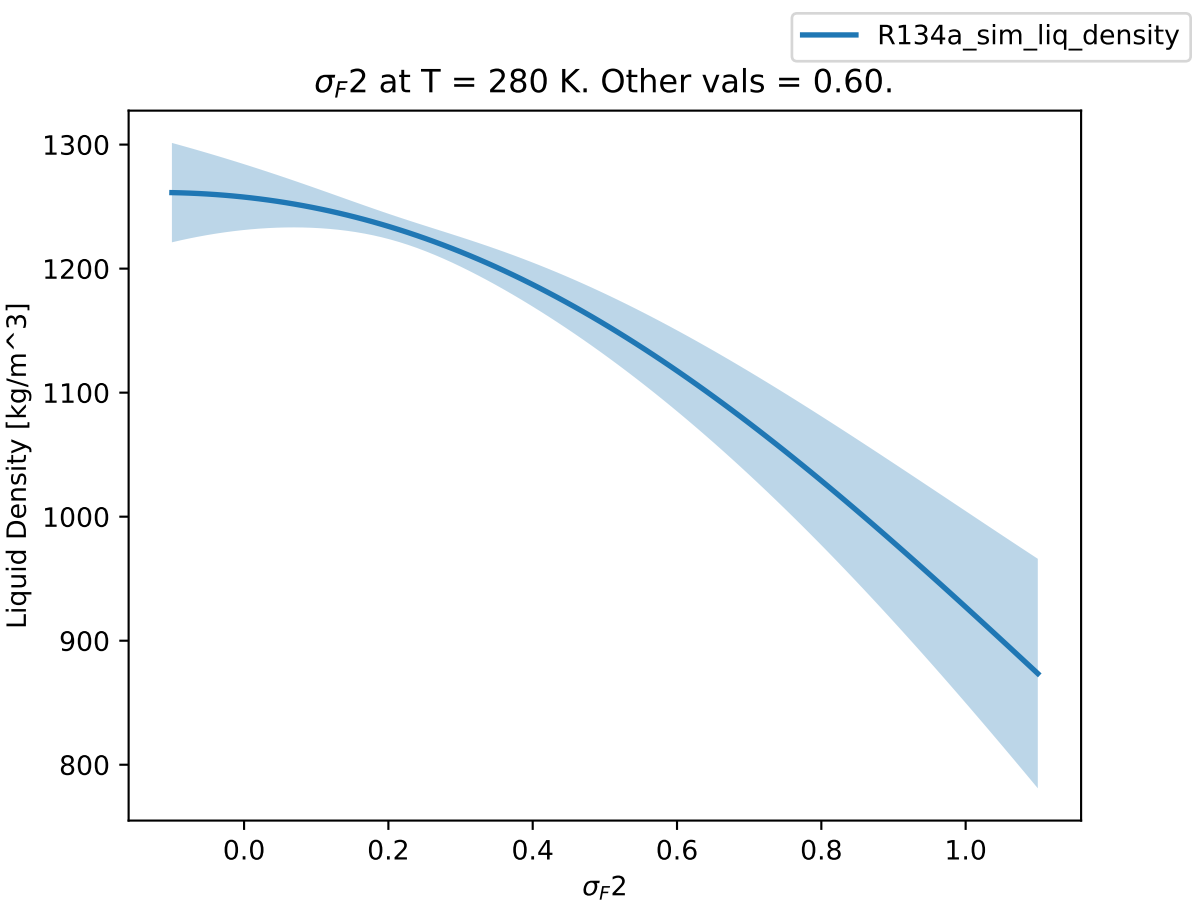

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

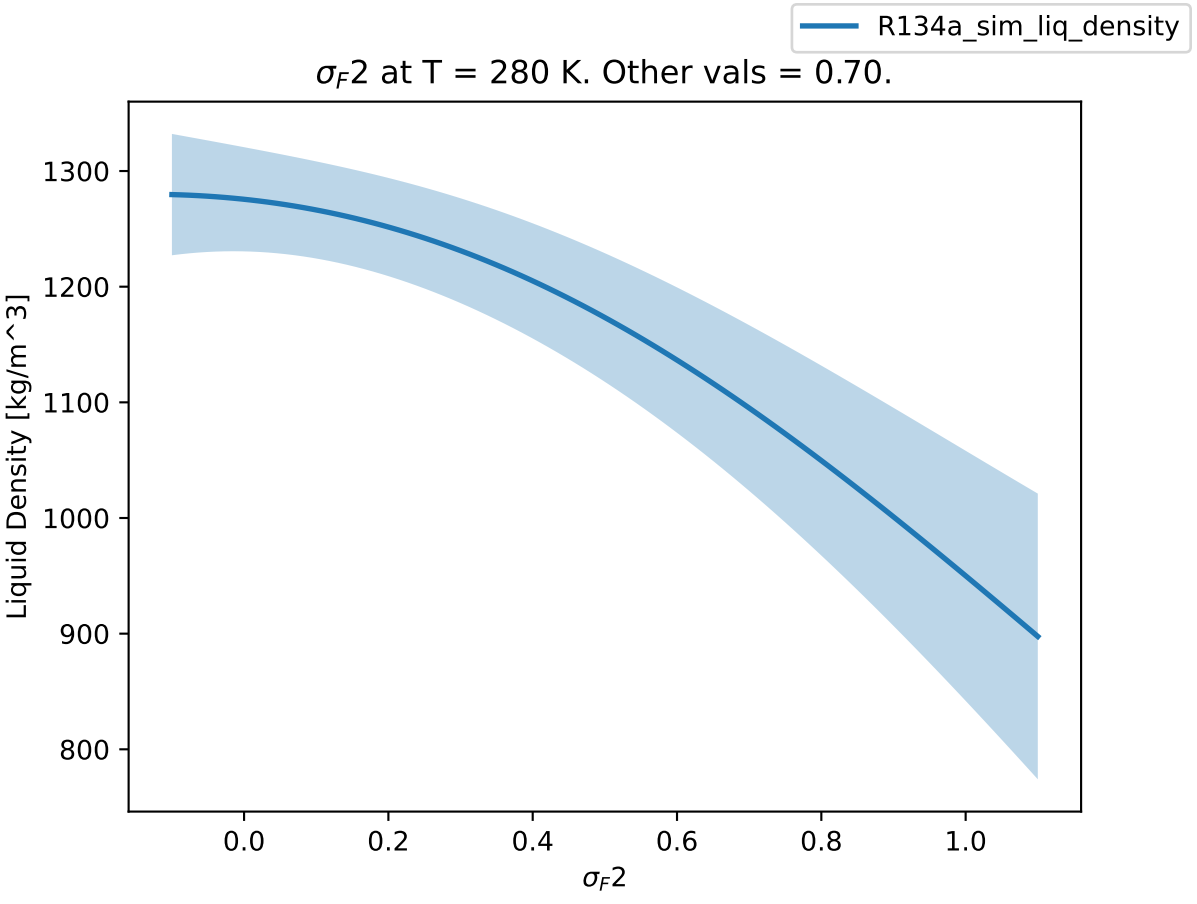

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

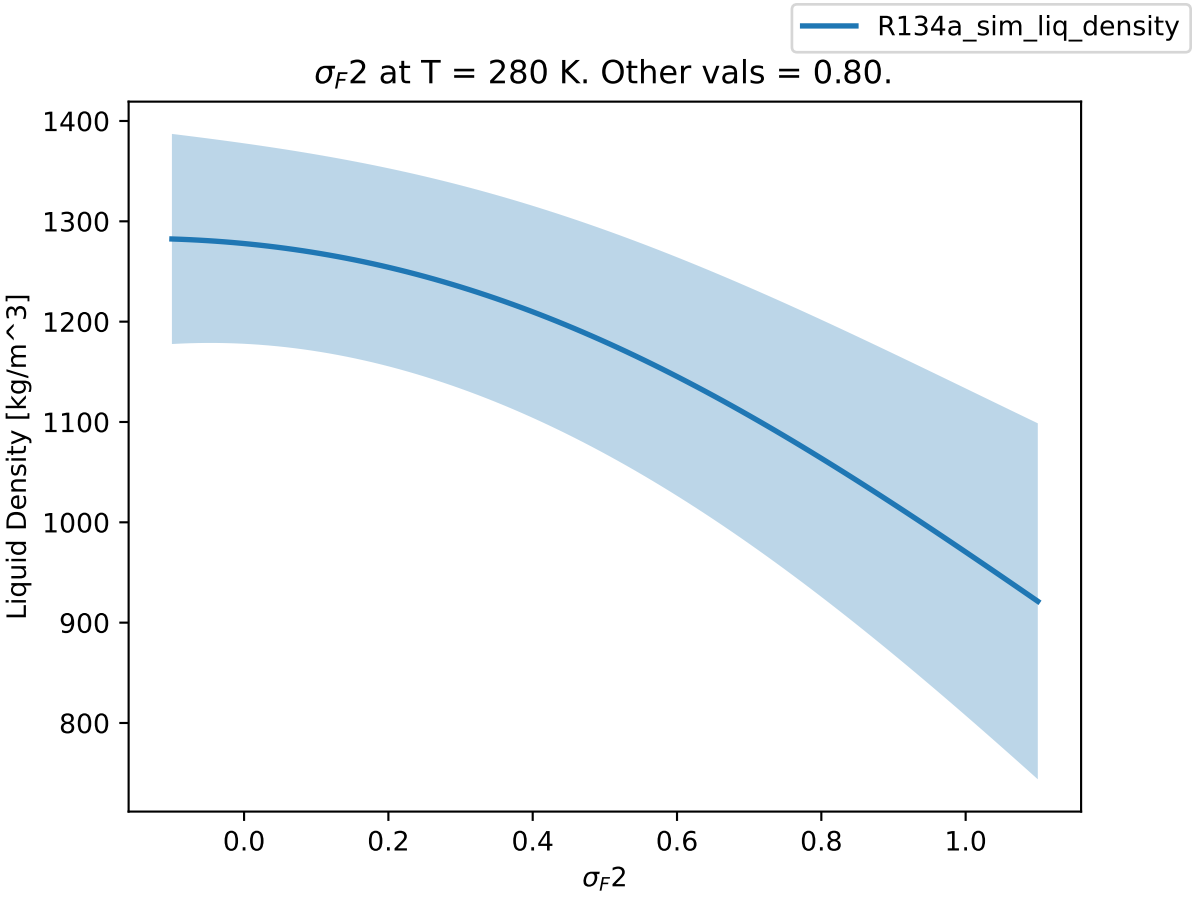

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

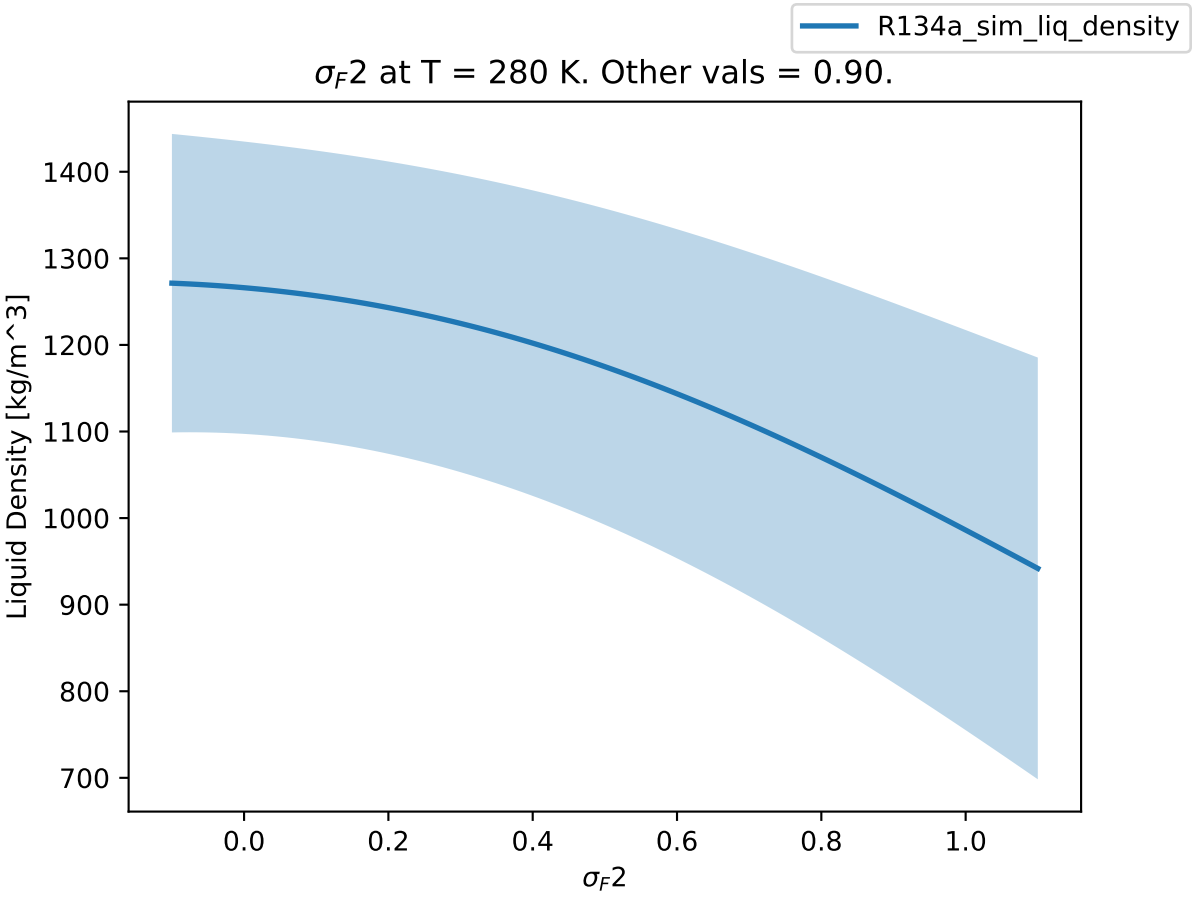

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

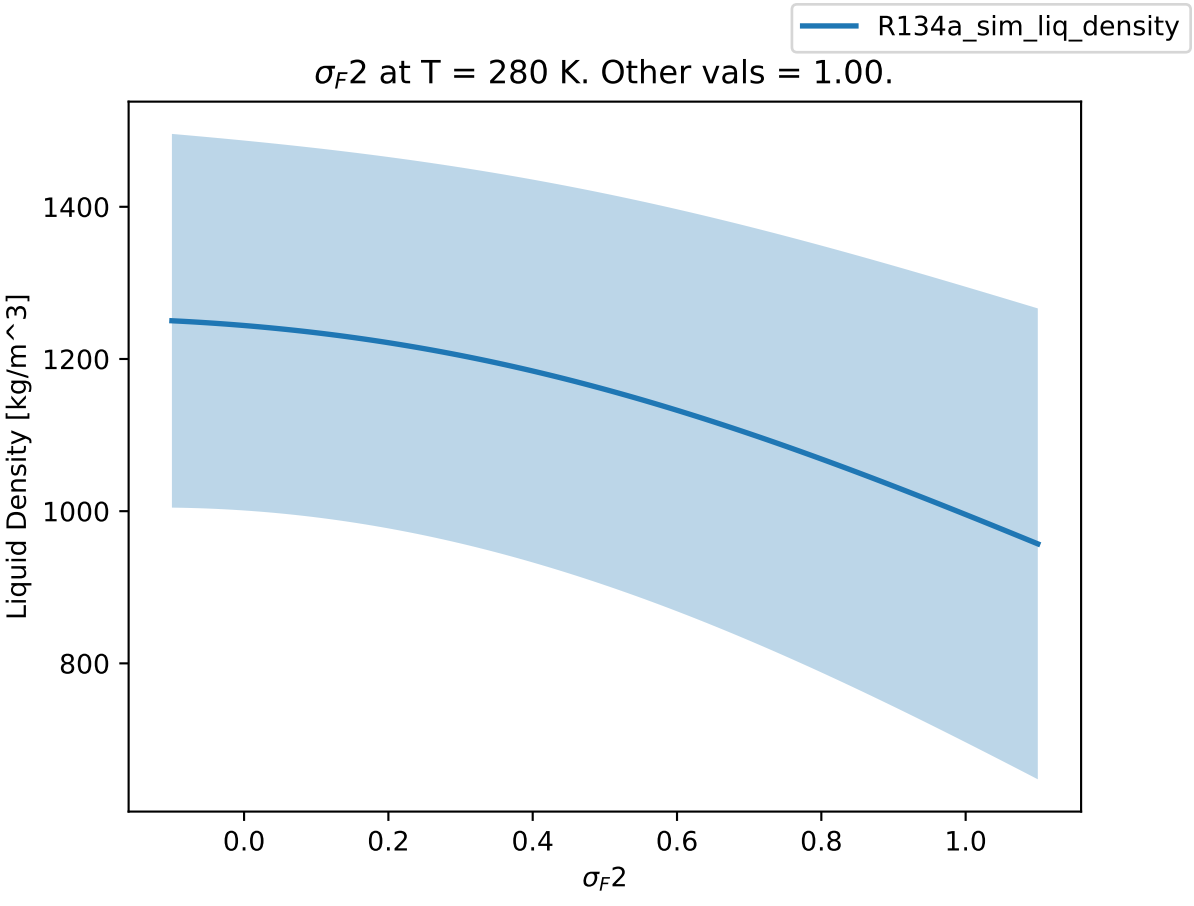

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

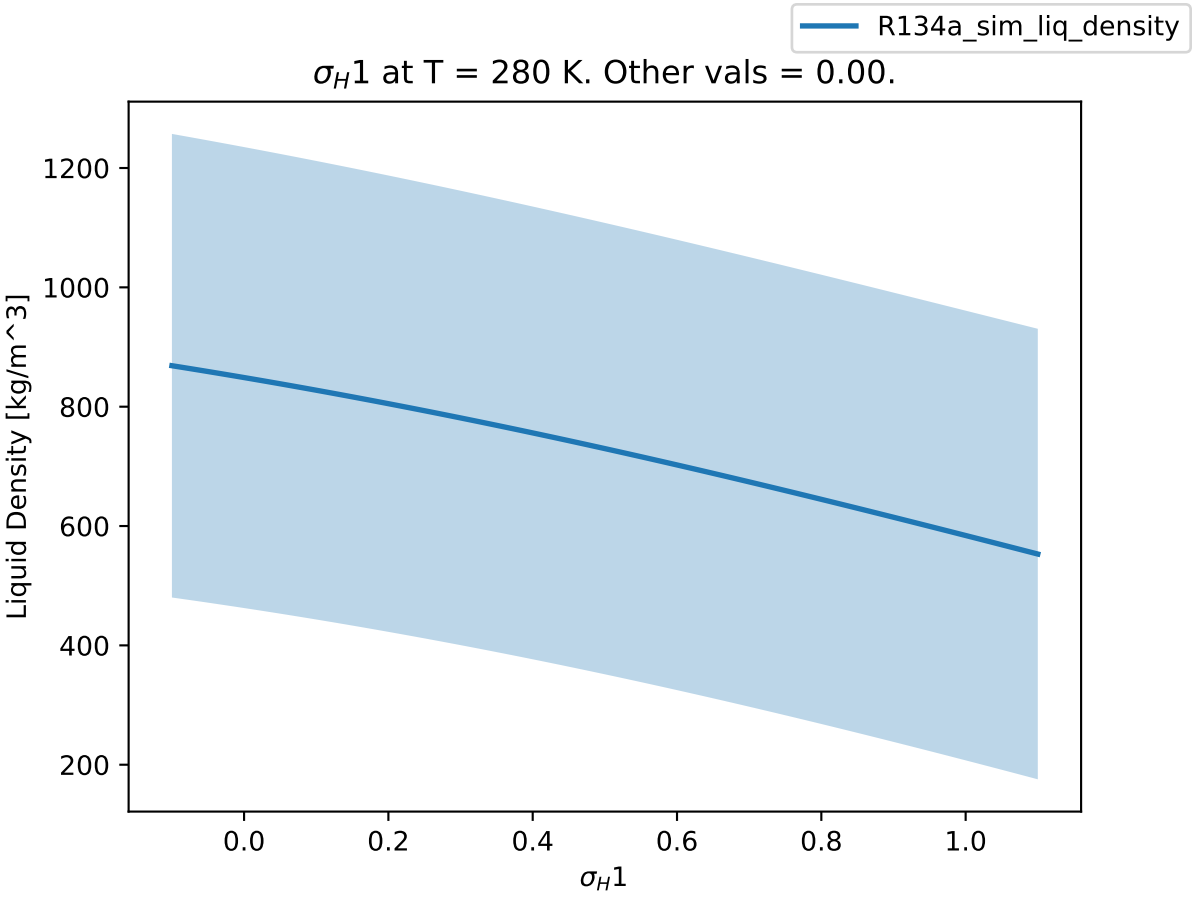

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

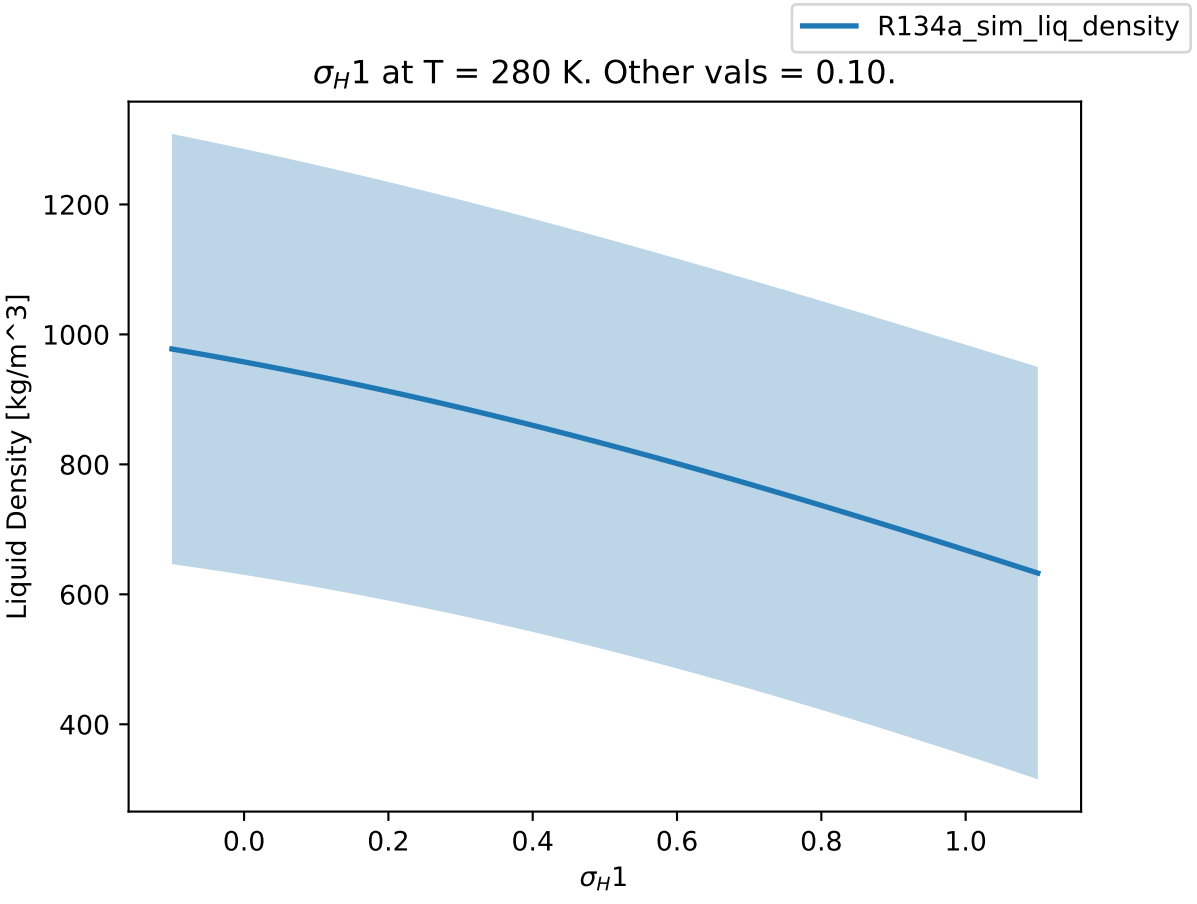

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

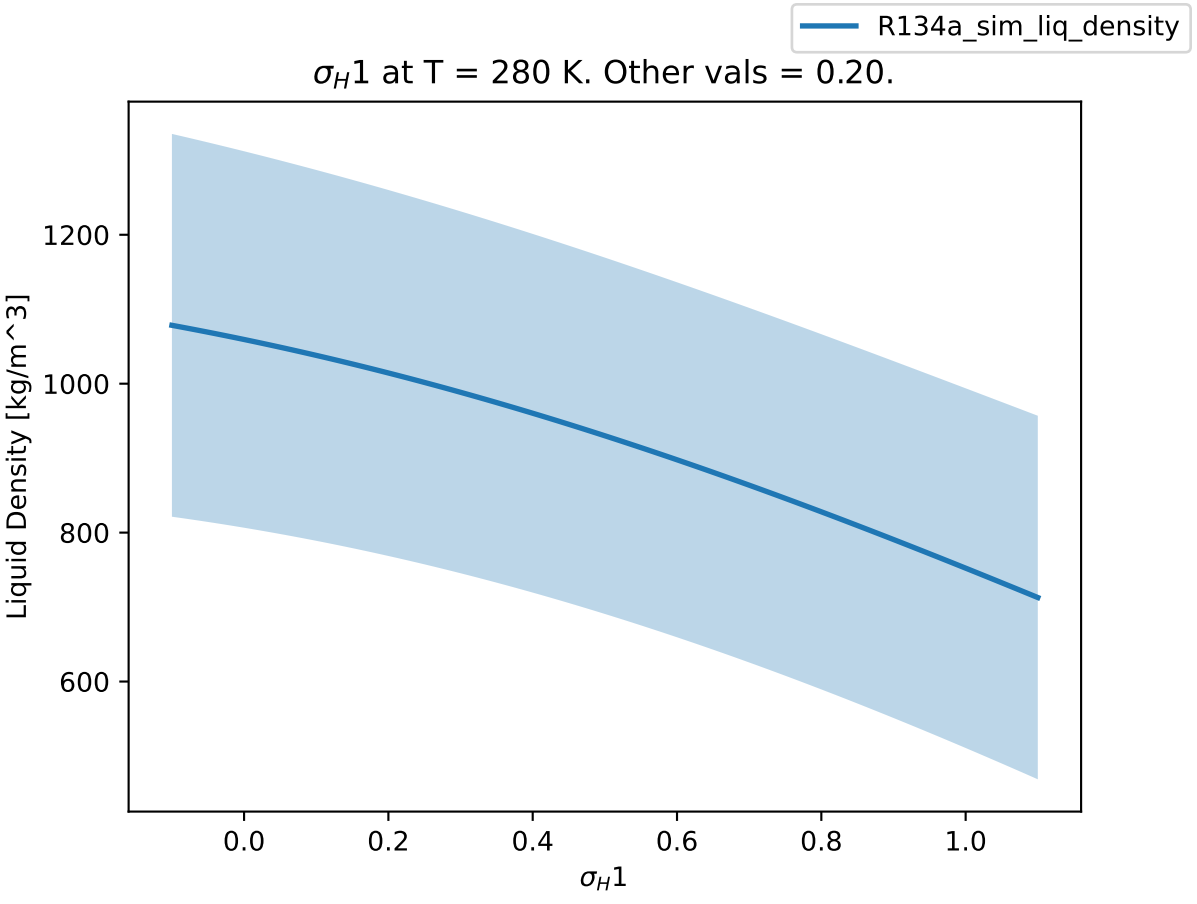

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

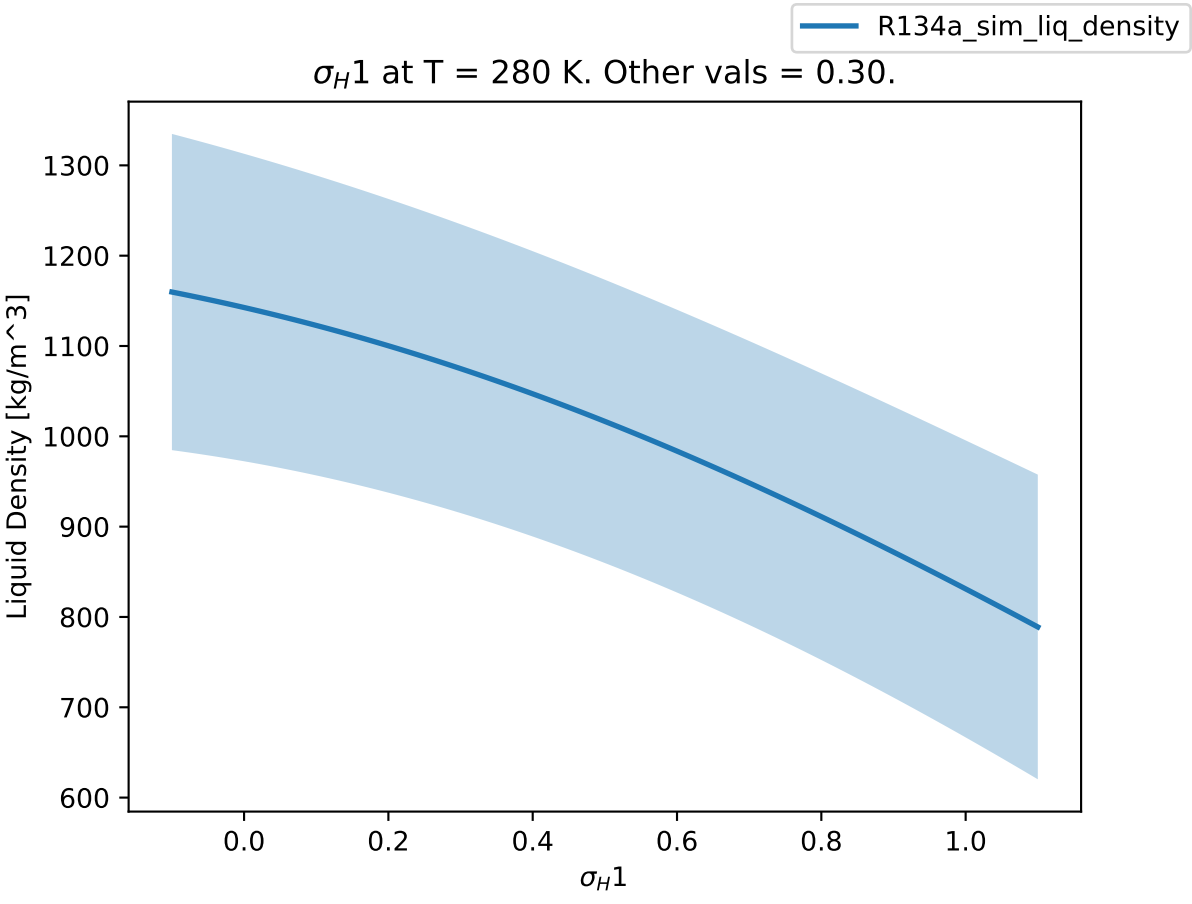

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

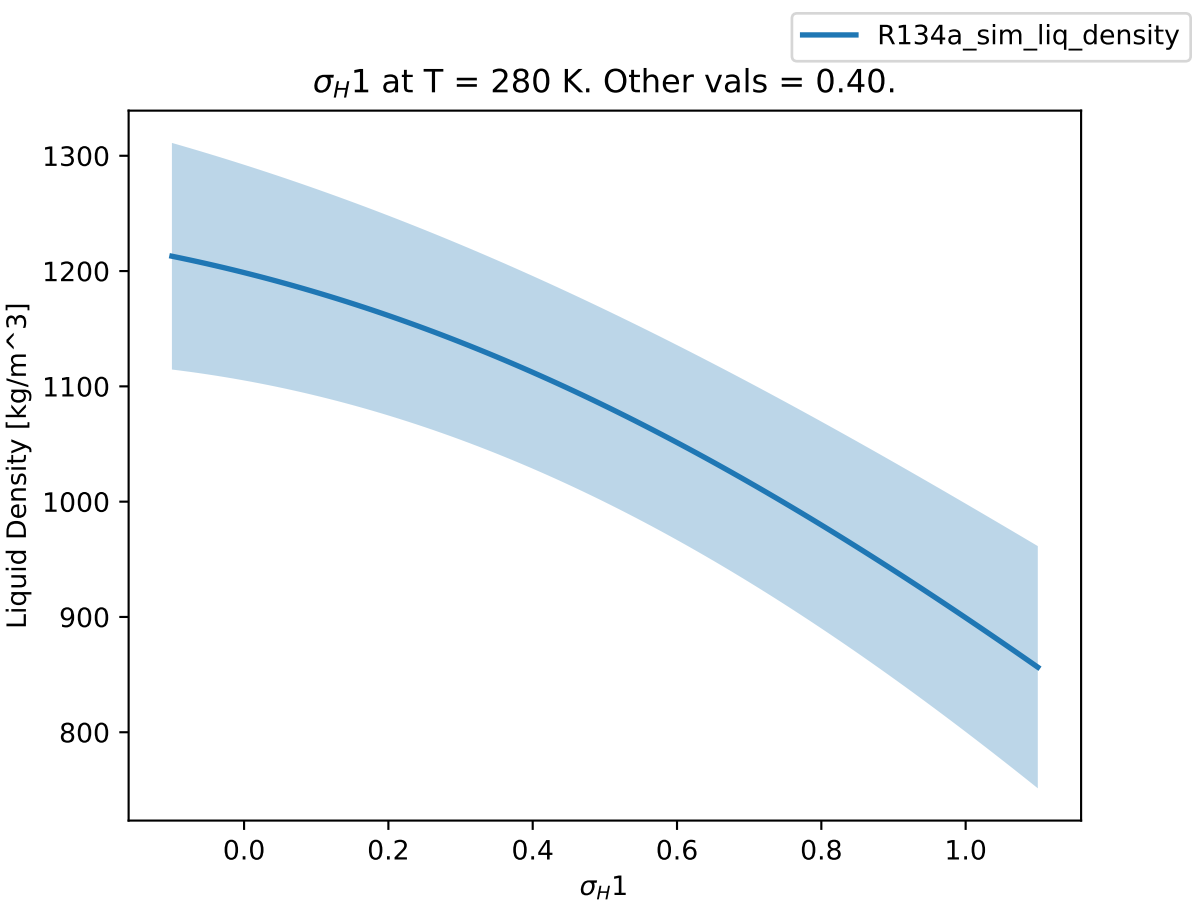

R134a_sim_liq_density
σ_F2 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1400
1200
1000
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

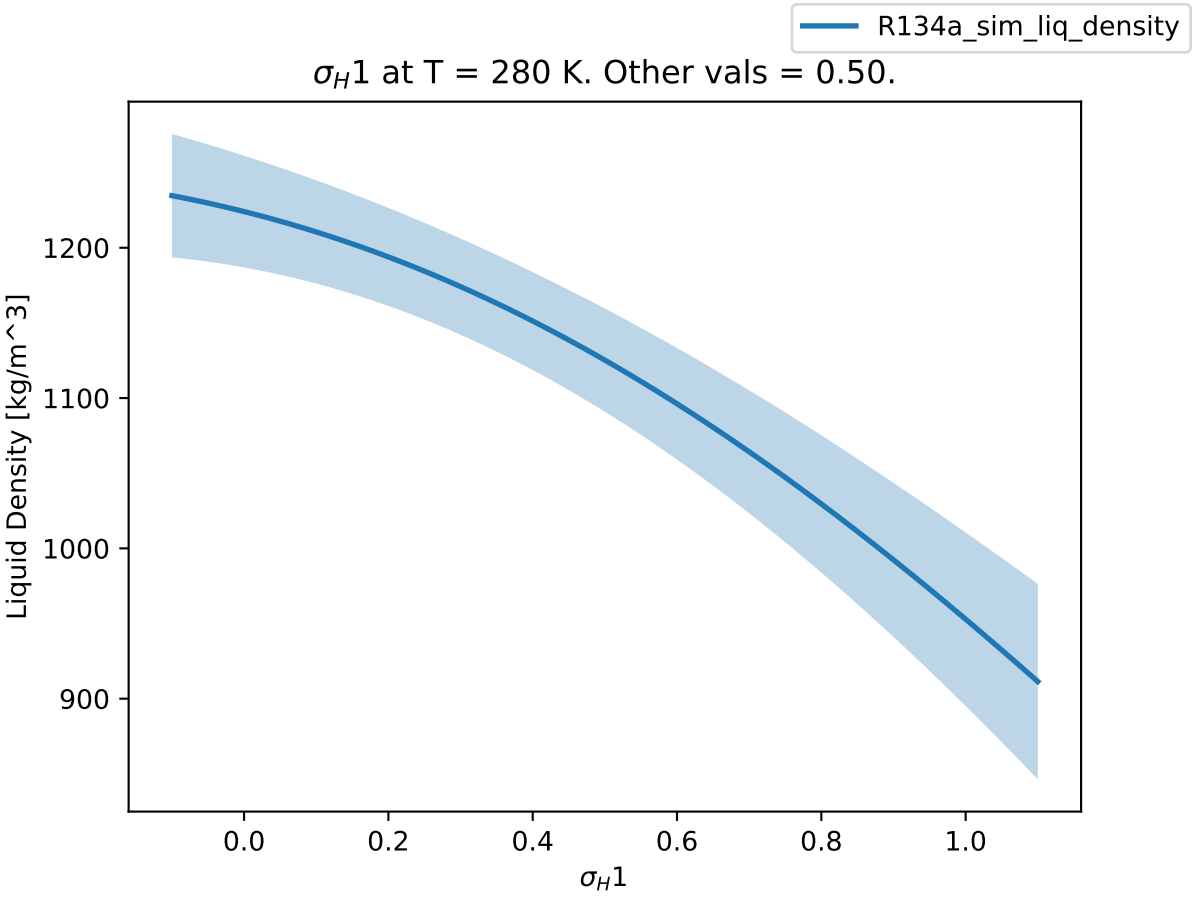

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

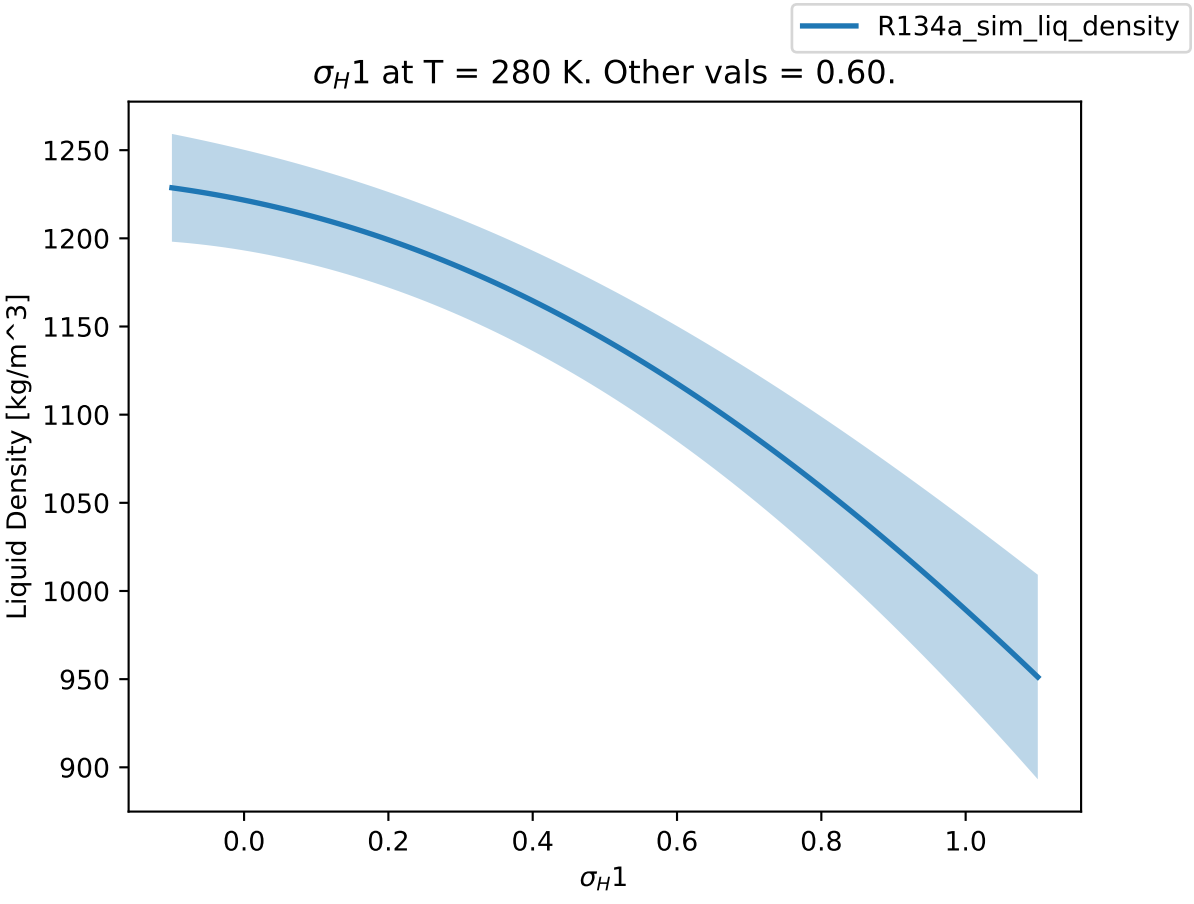

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

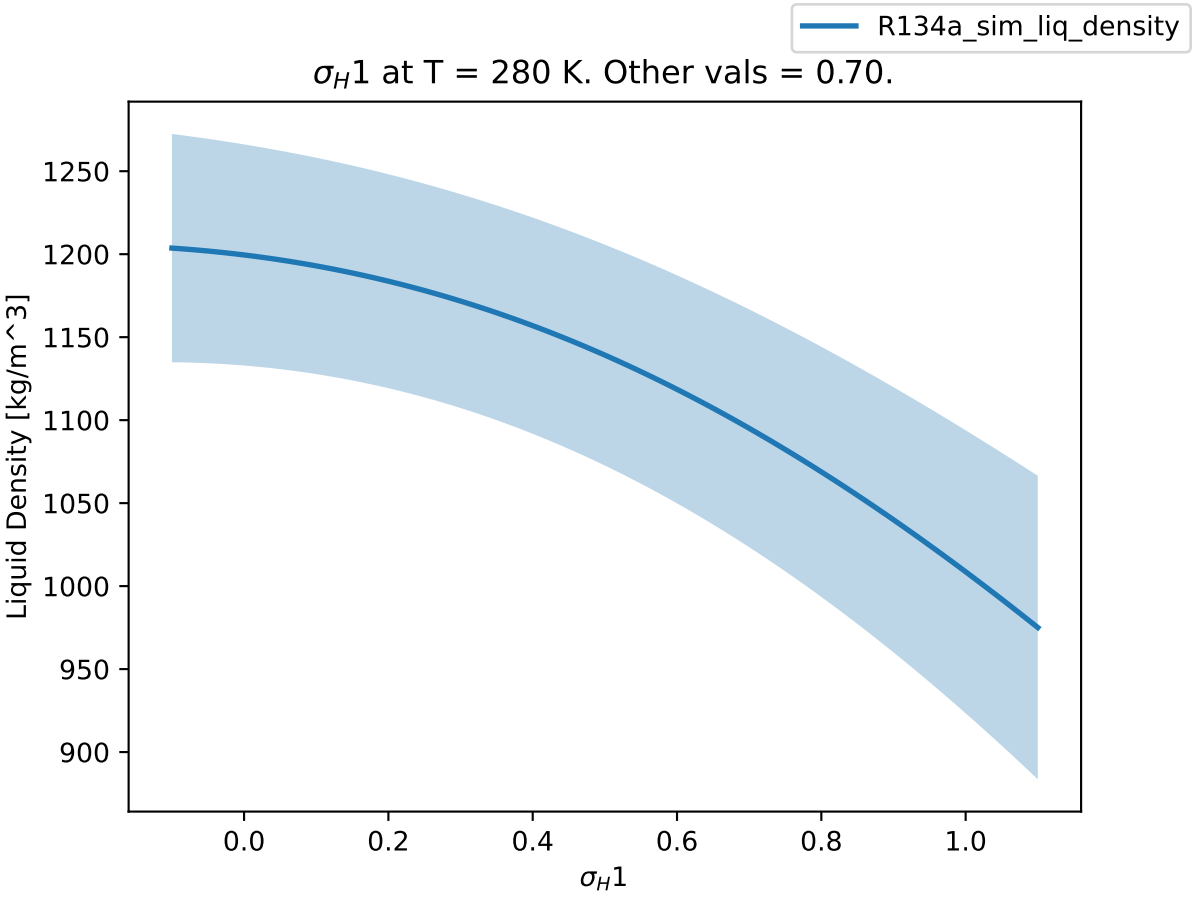

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

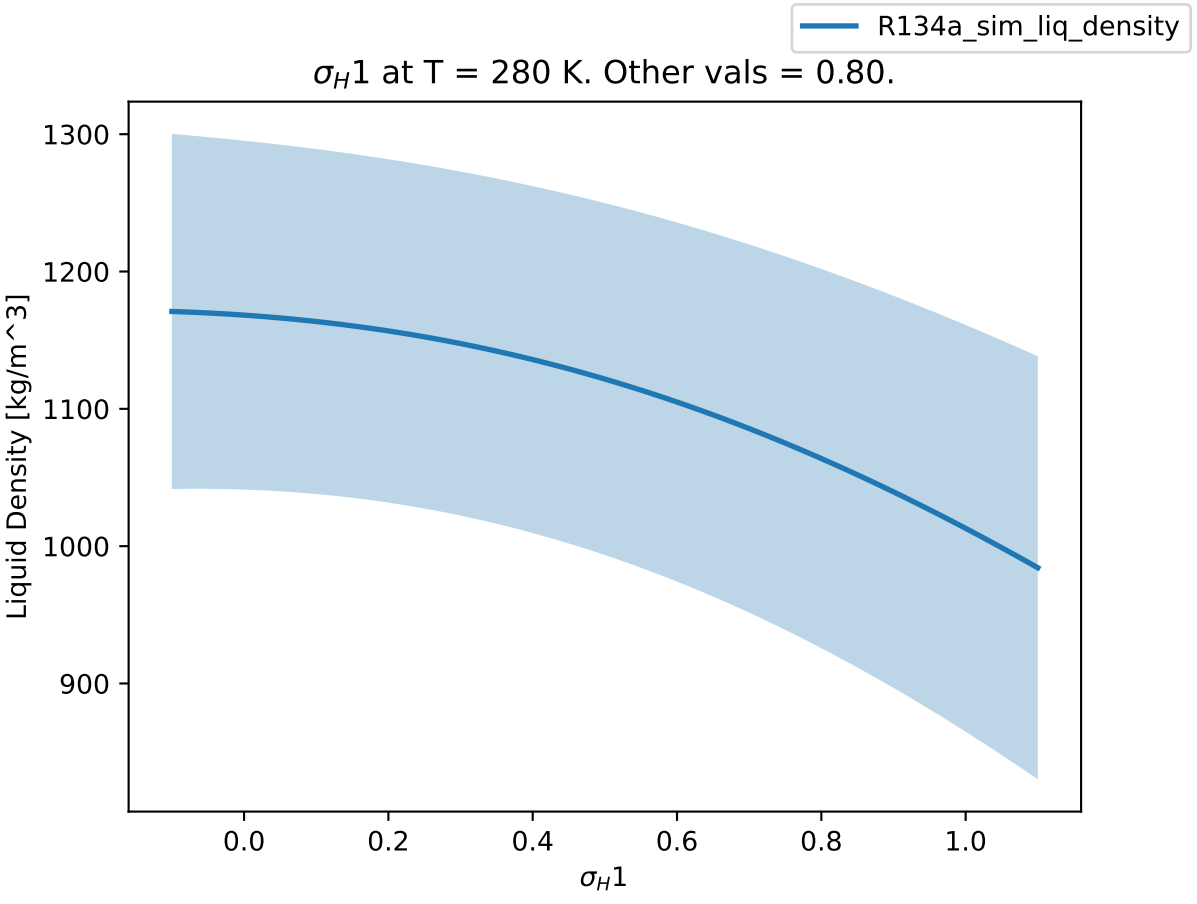

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

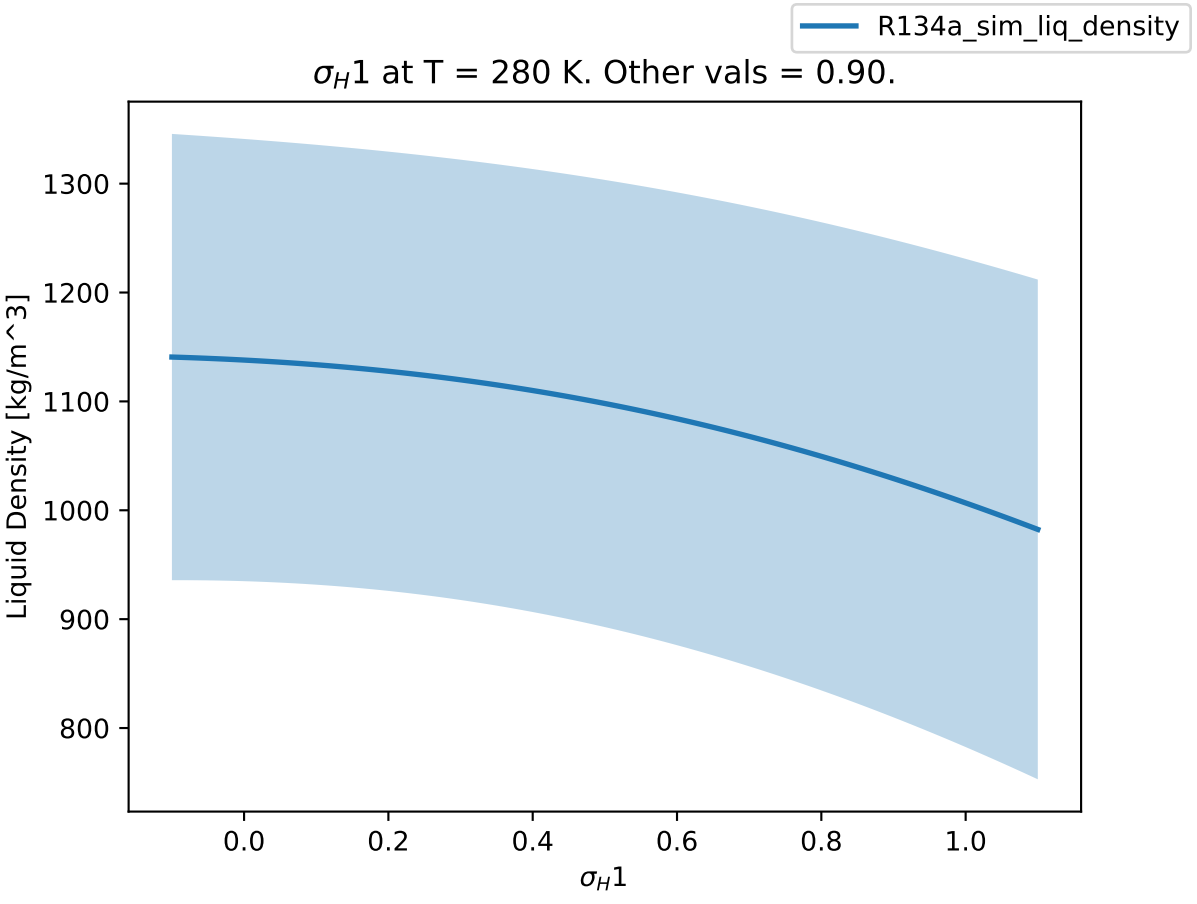

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

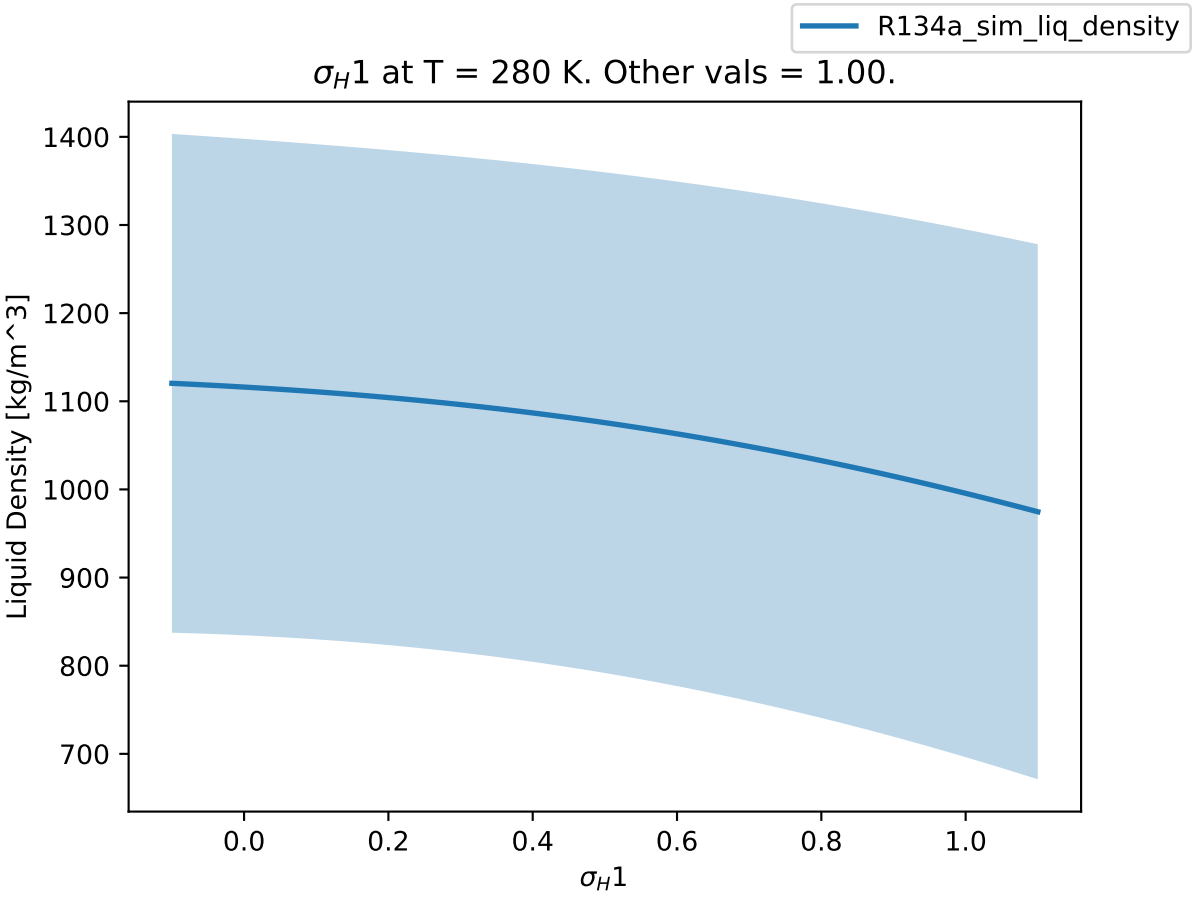

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

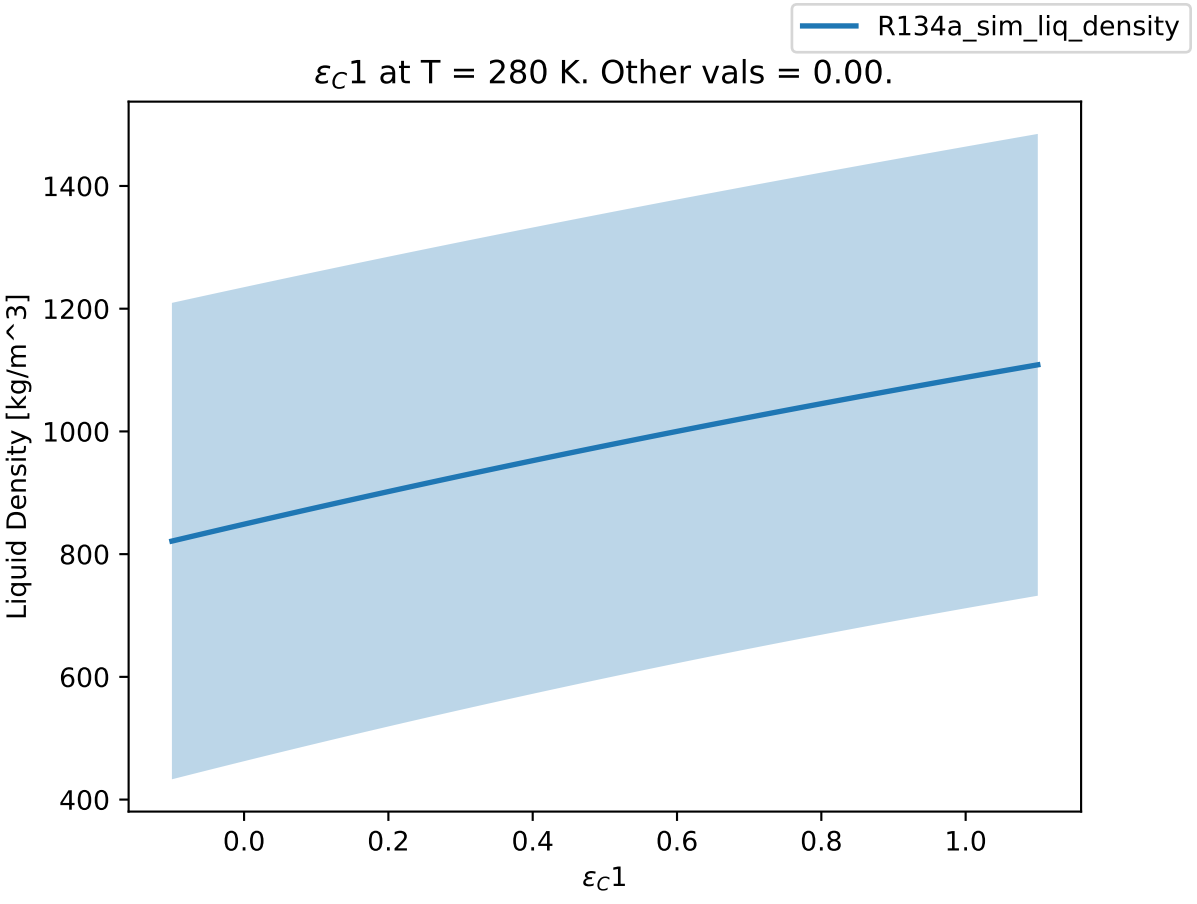

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

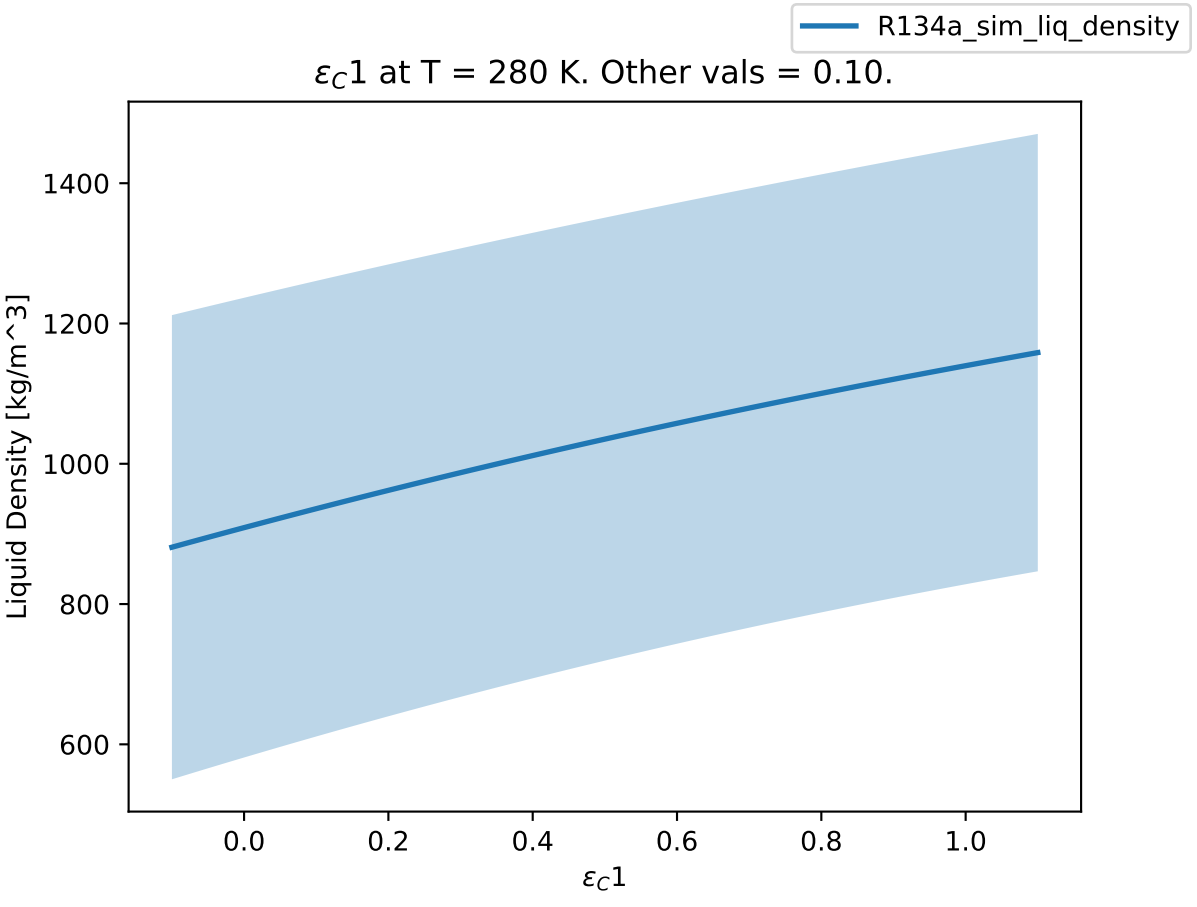

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

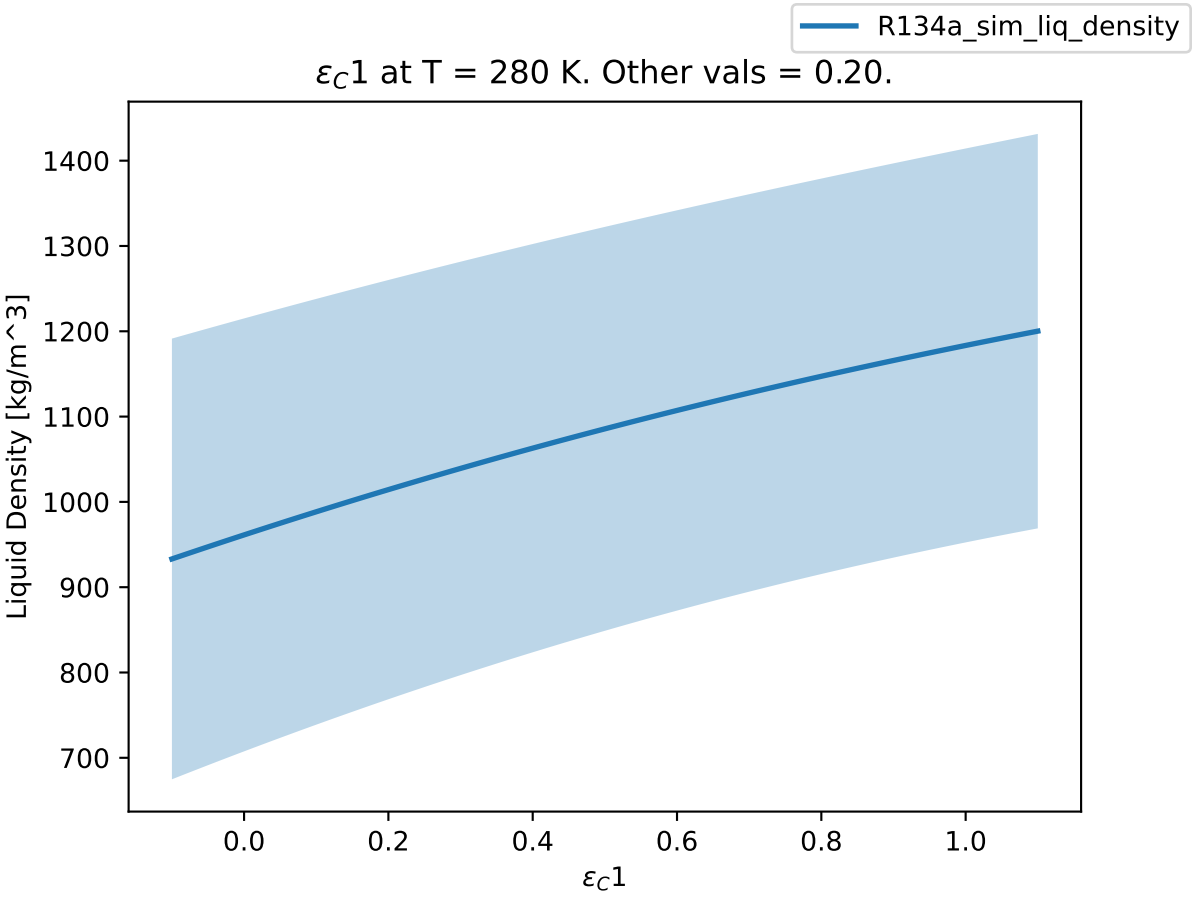

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

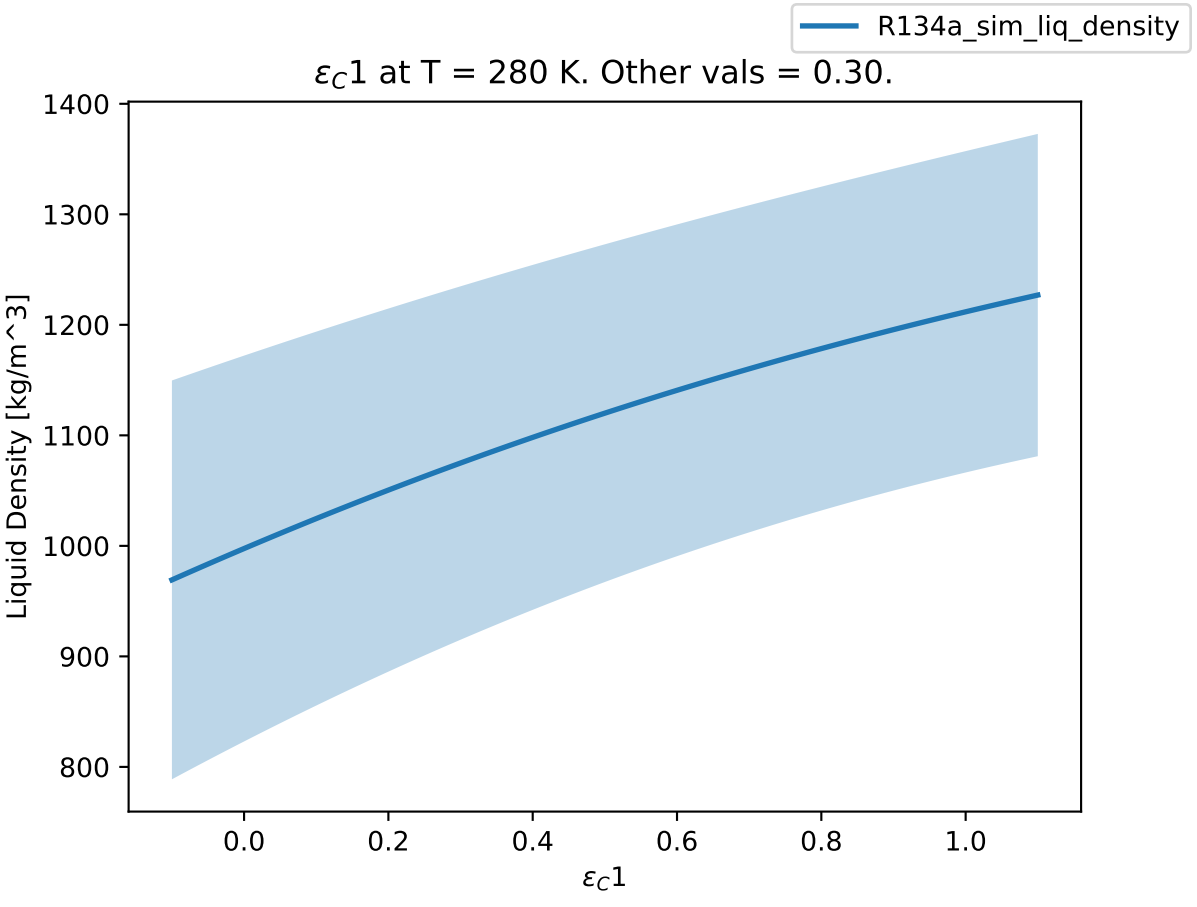

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

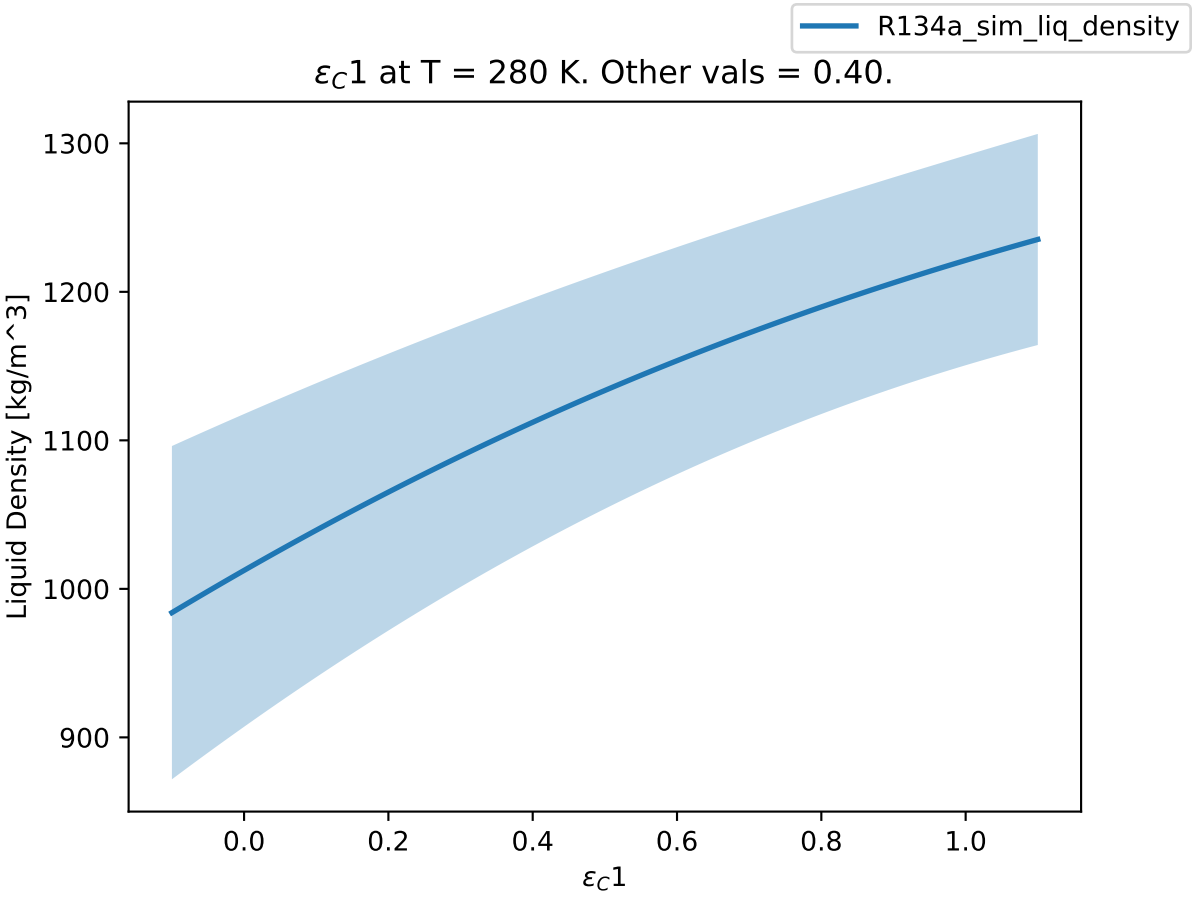

R134a_sim_liq_density
σ_H1 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

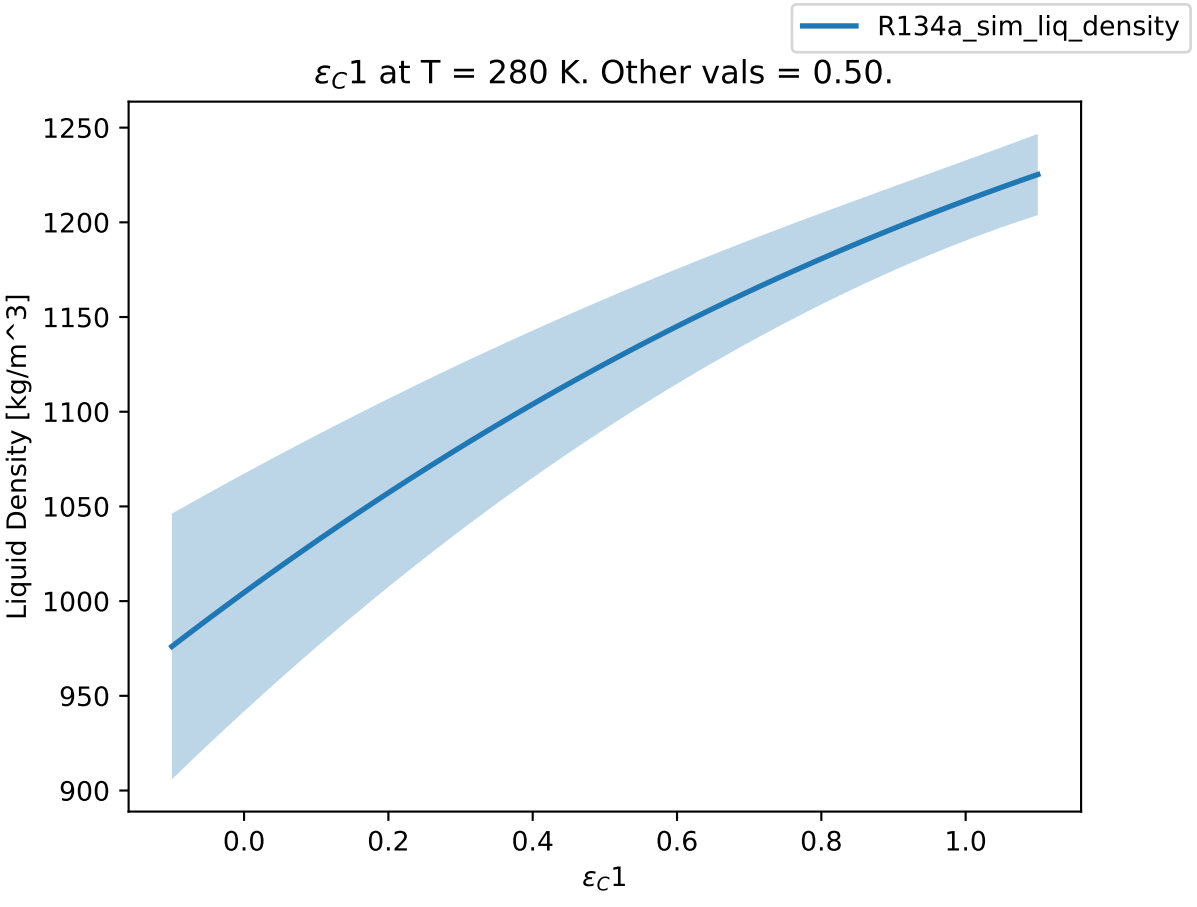

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

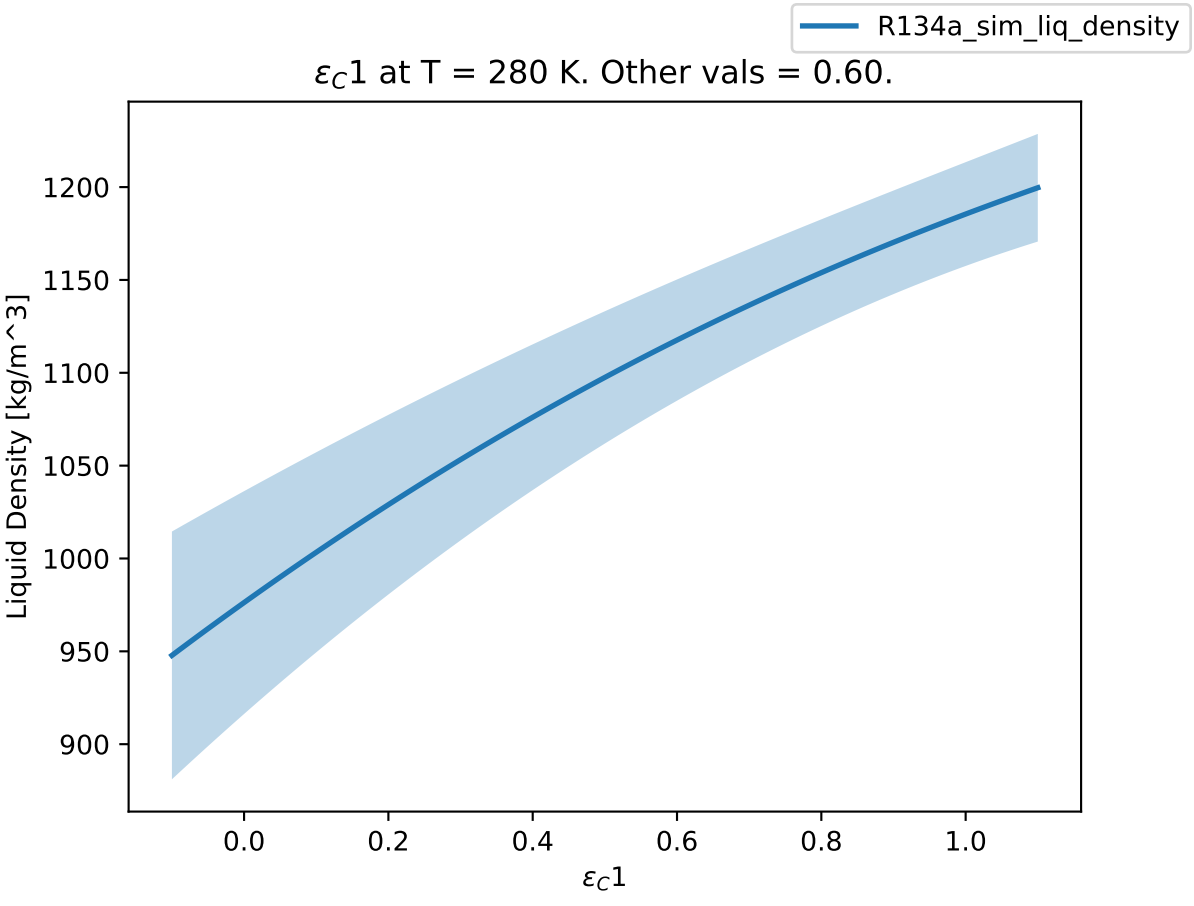

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

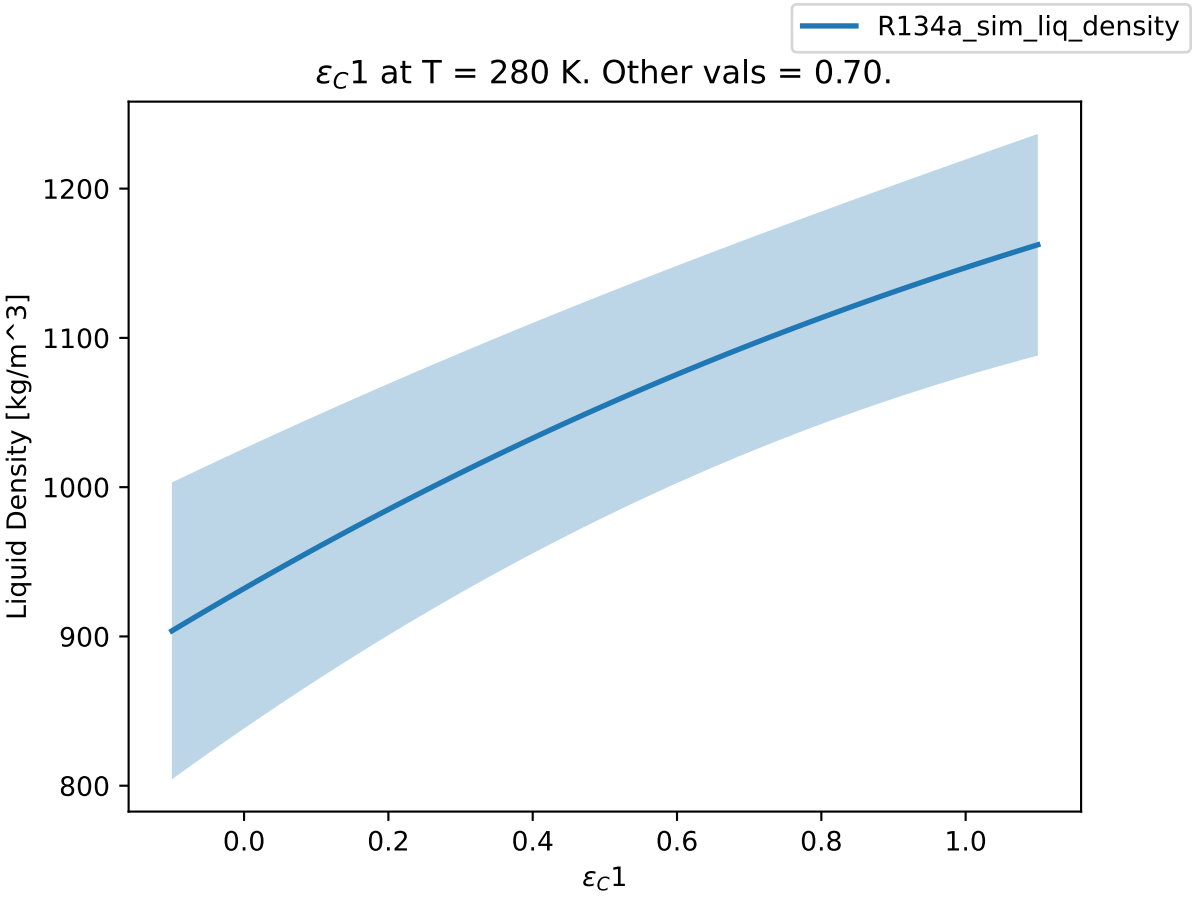

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

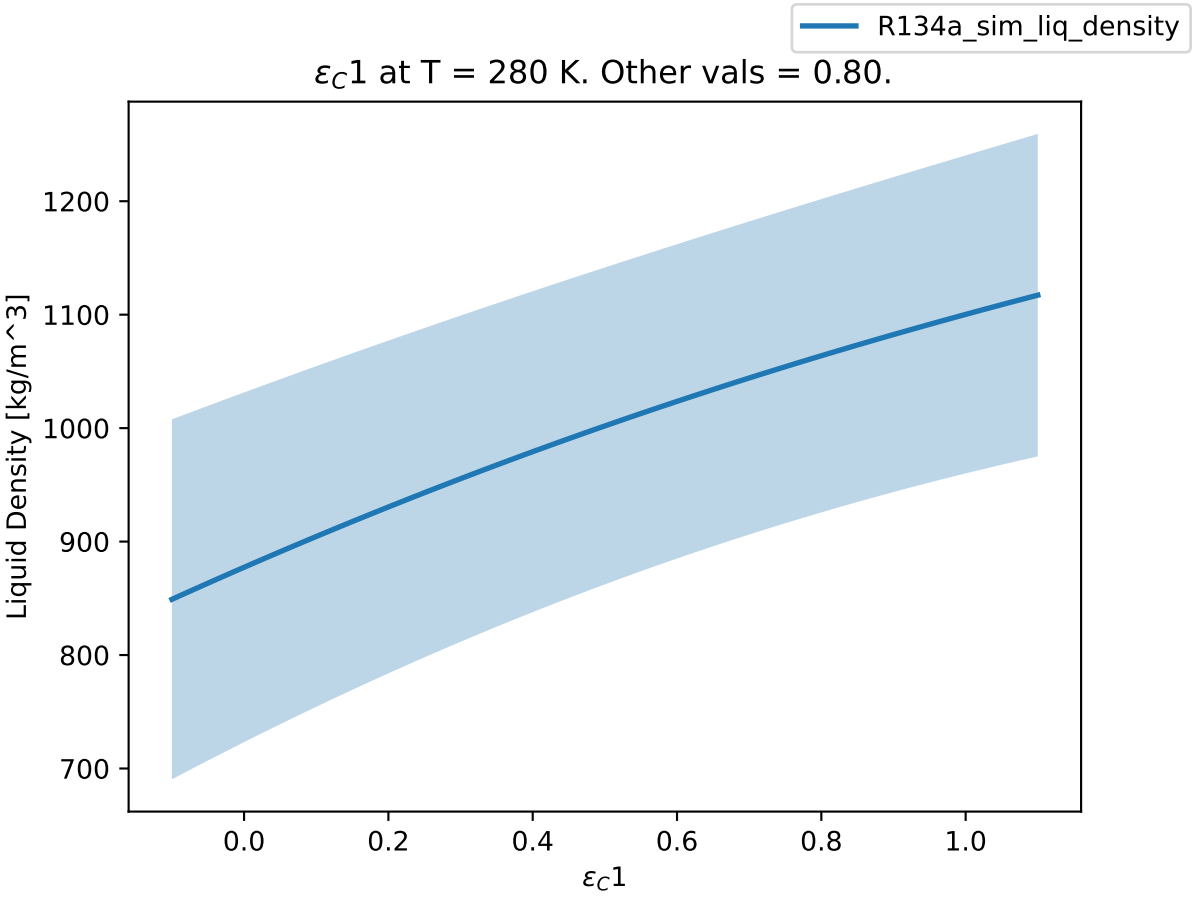

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

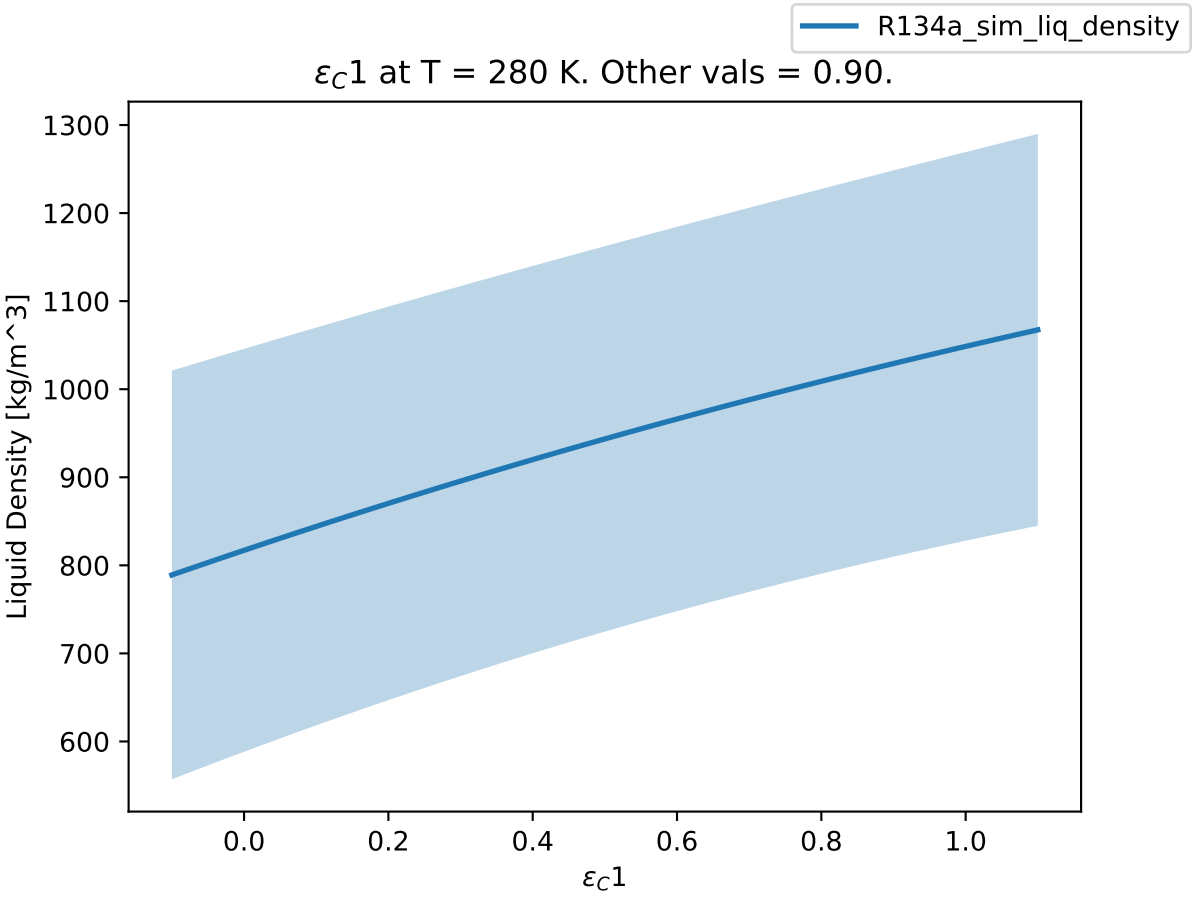

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

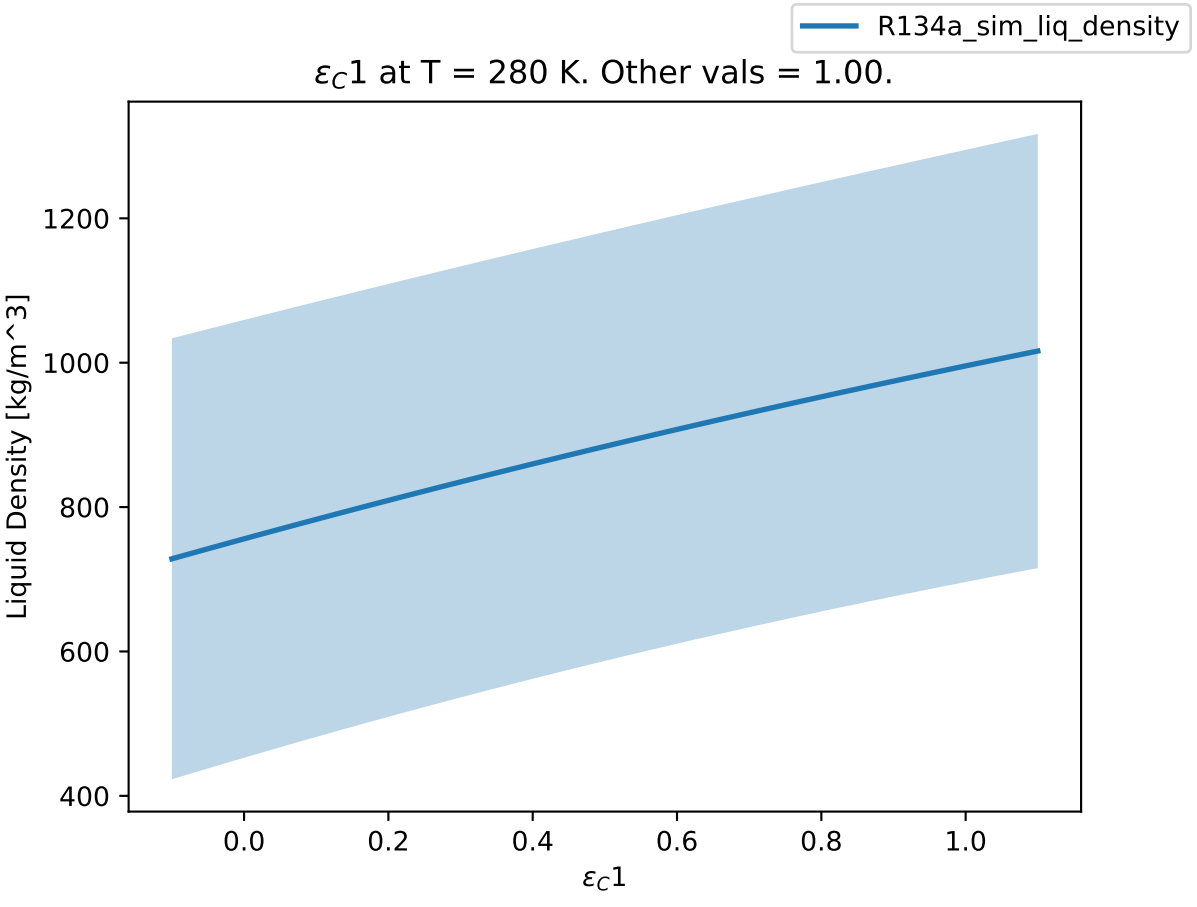

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

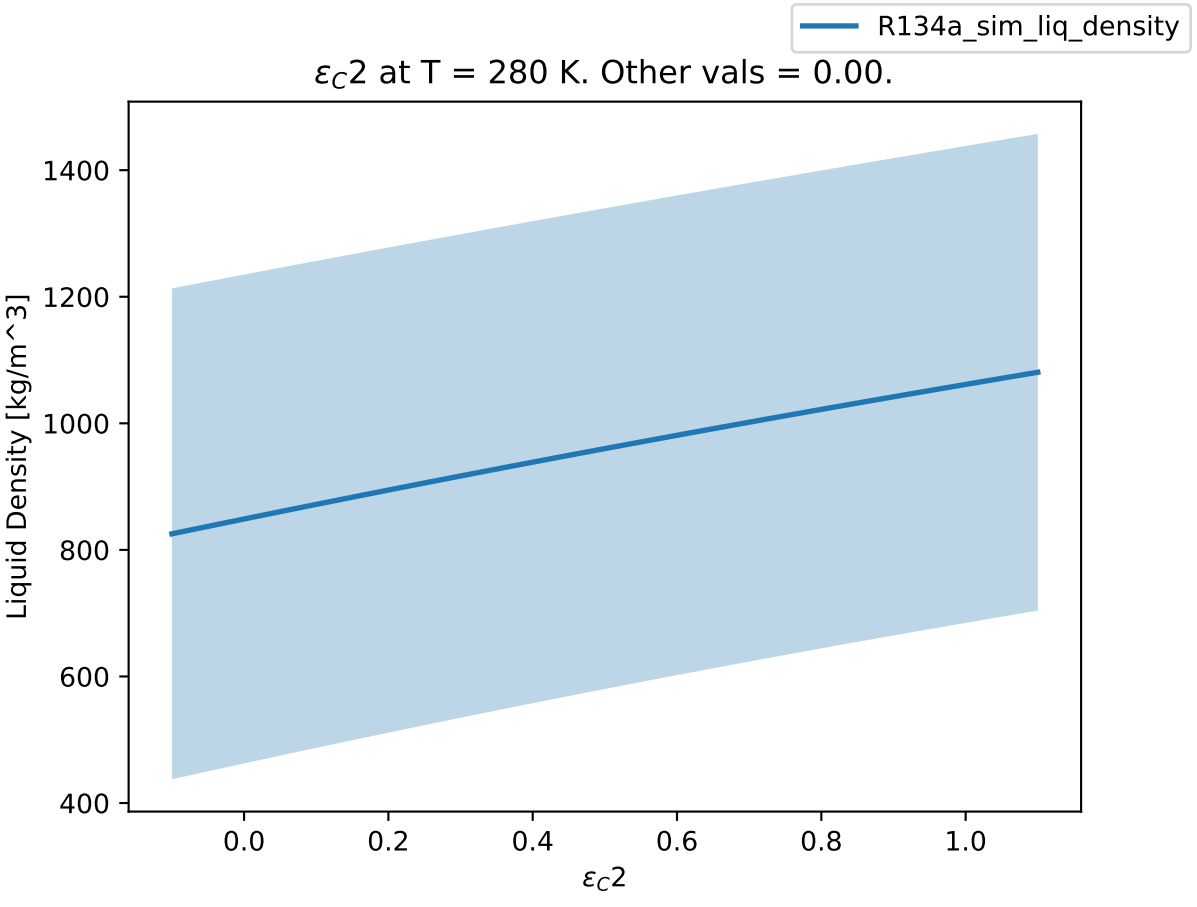

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

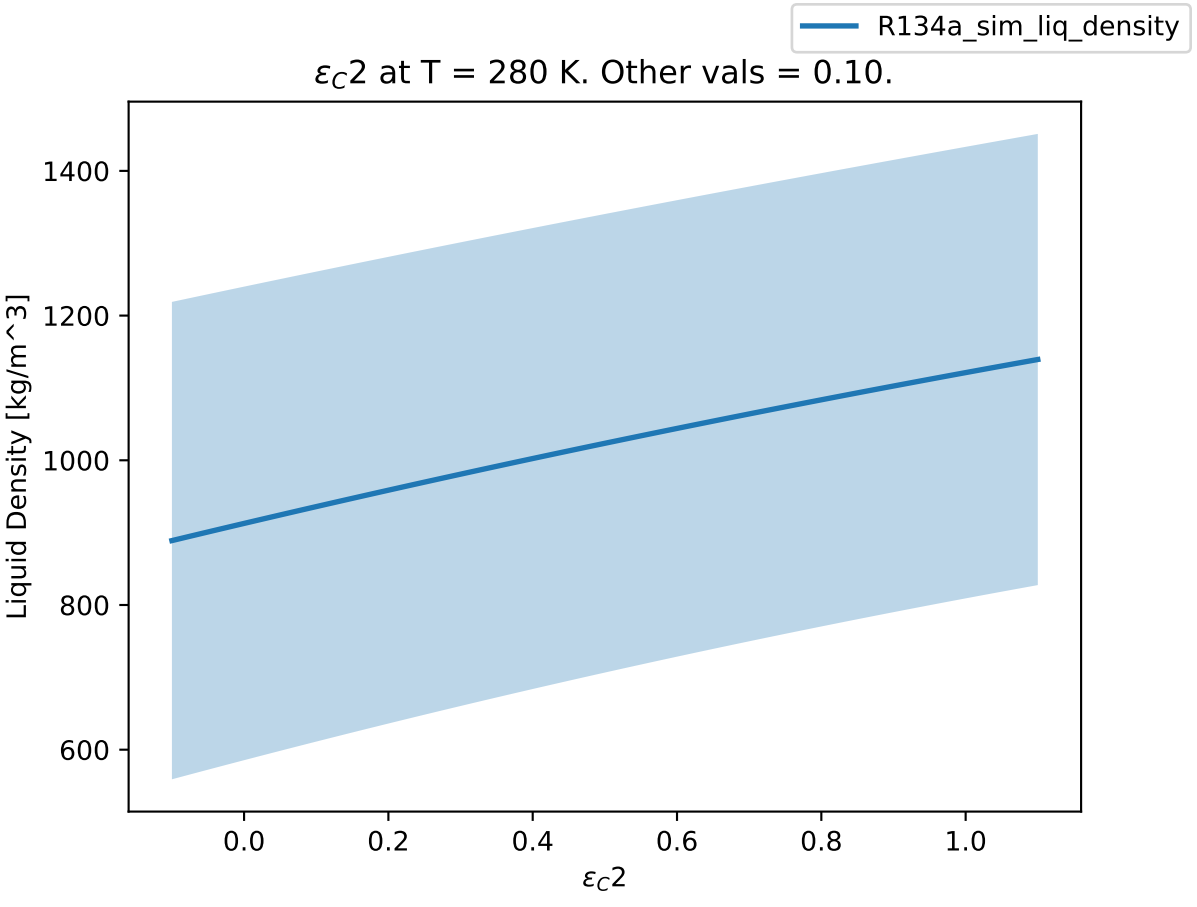

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

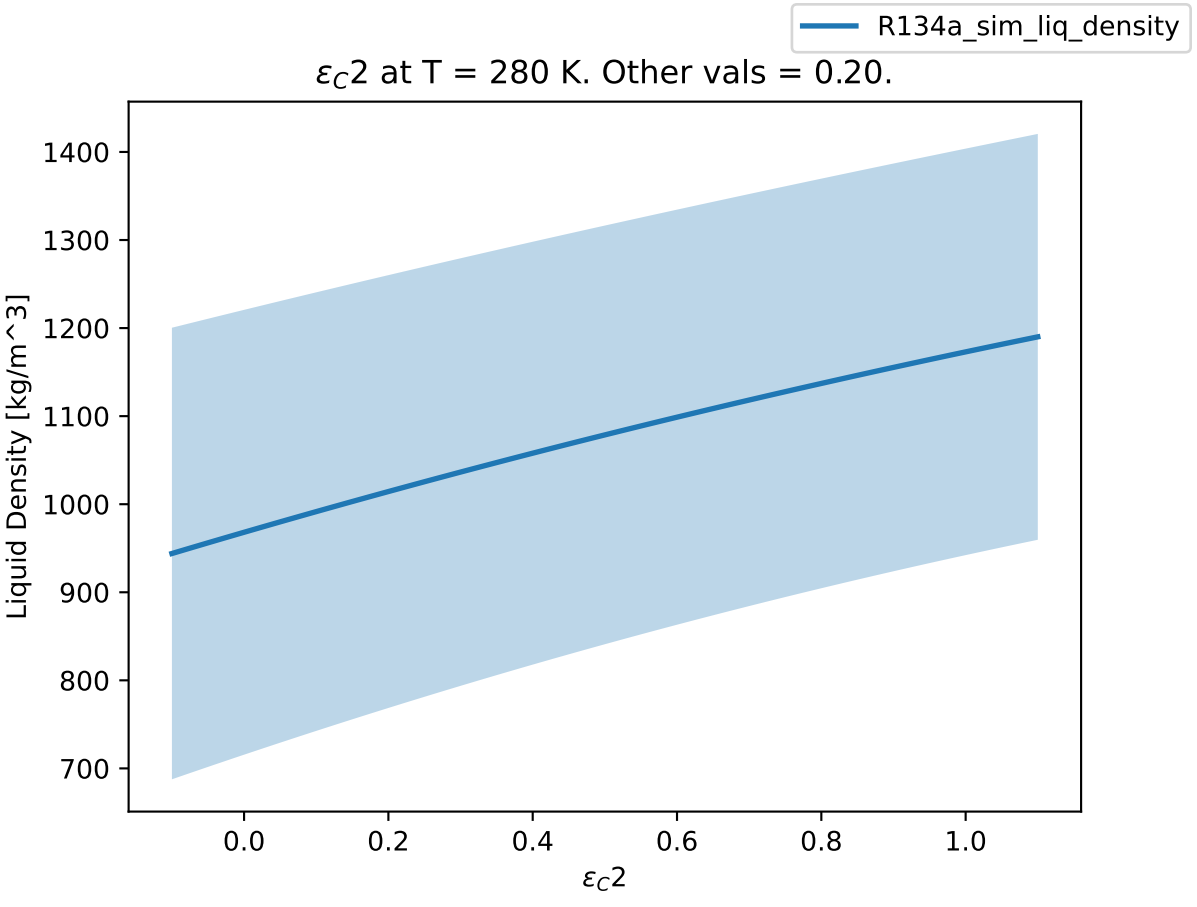

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

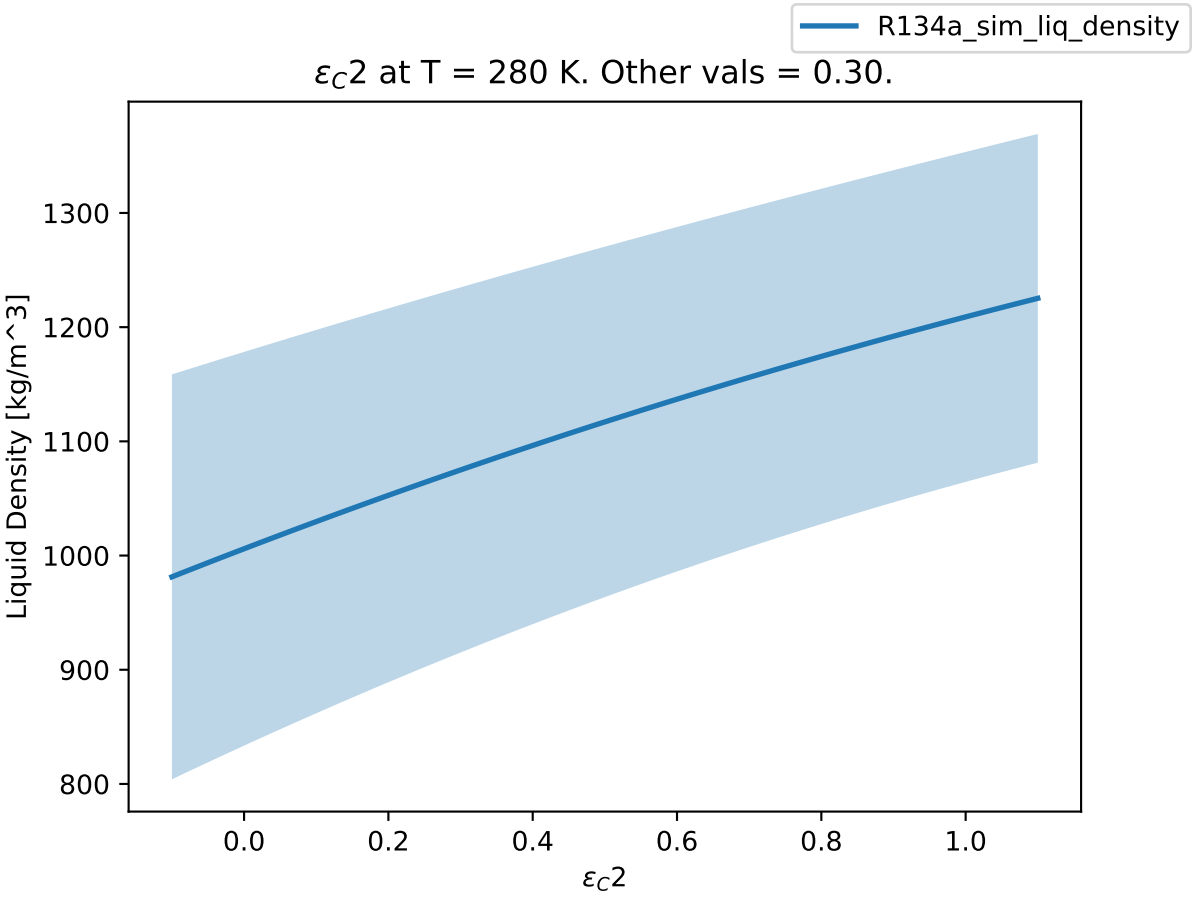

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

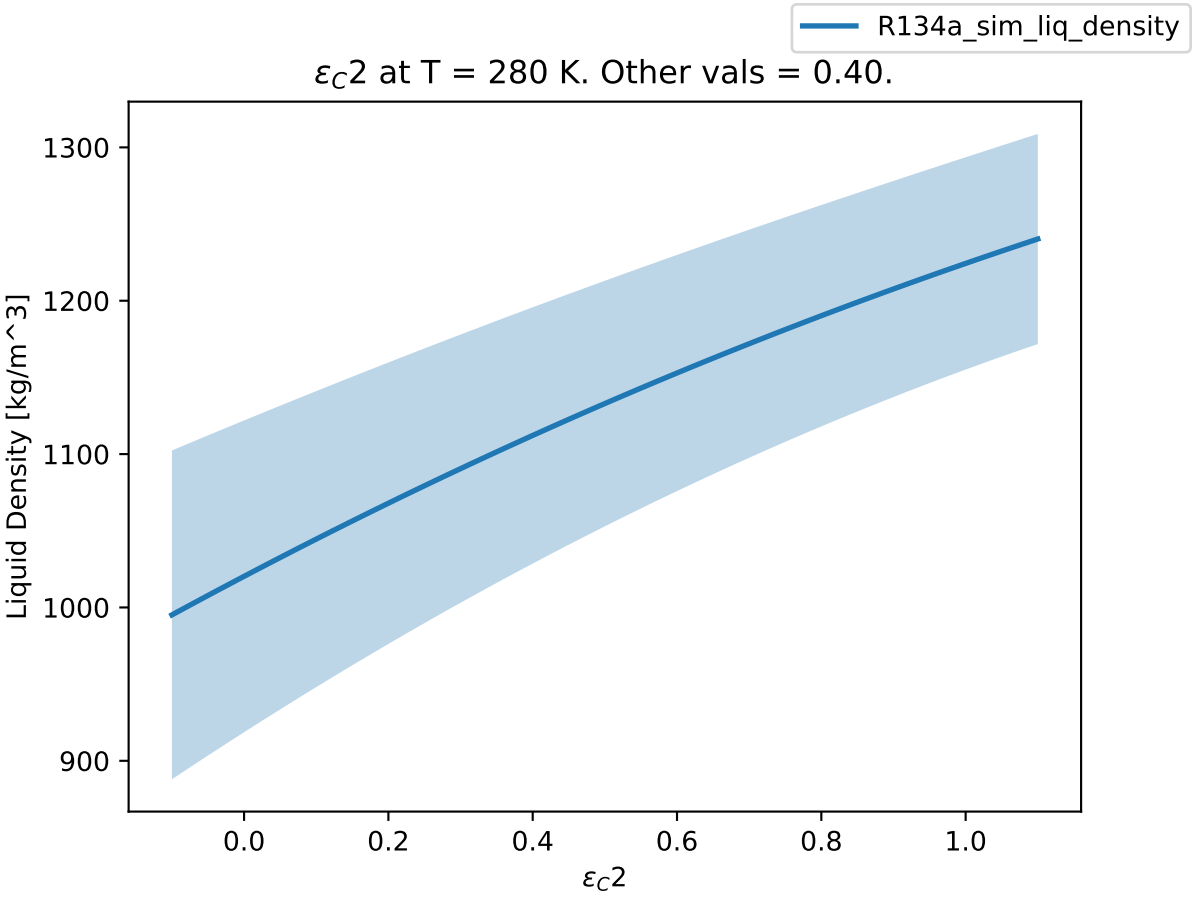

R134a_sim_liq_density
ε_C1 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

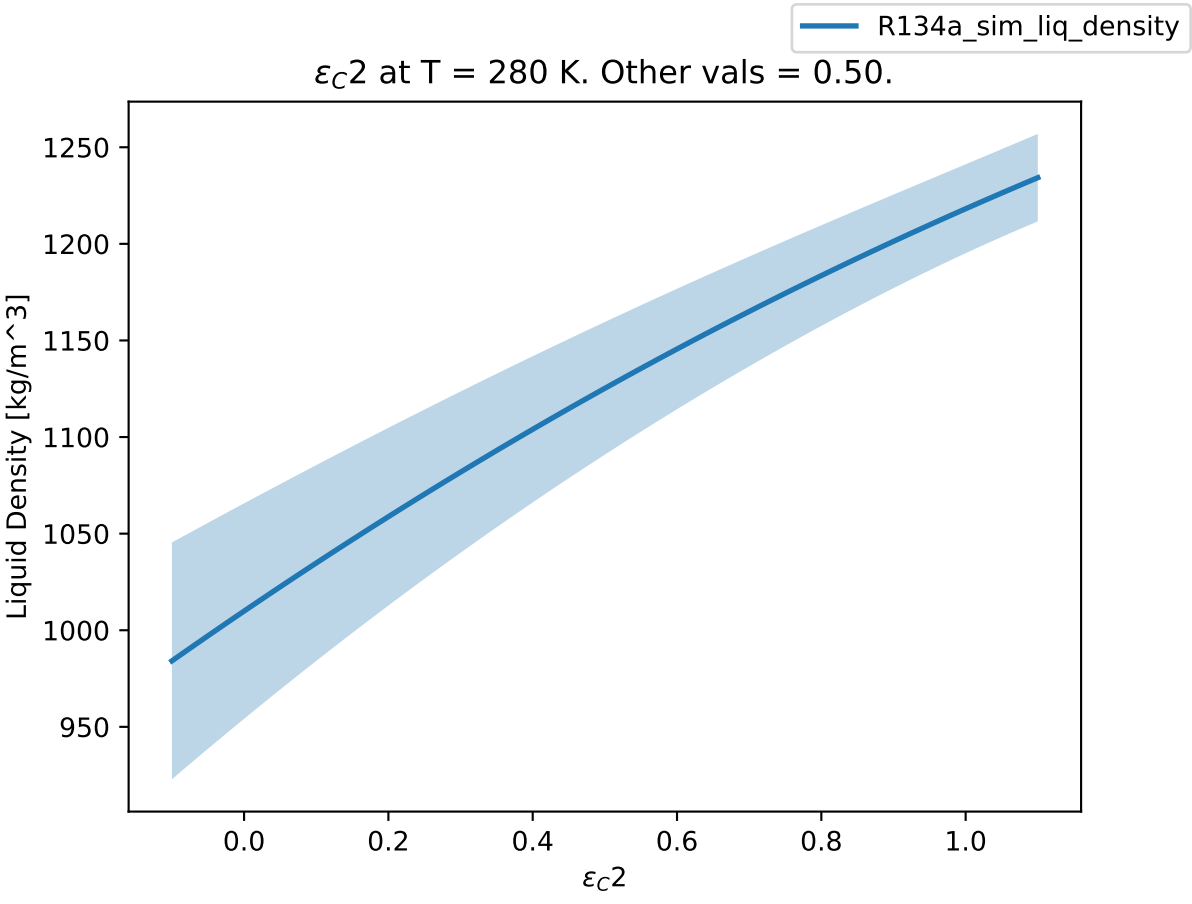

R134a_sim_liq_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

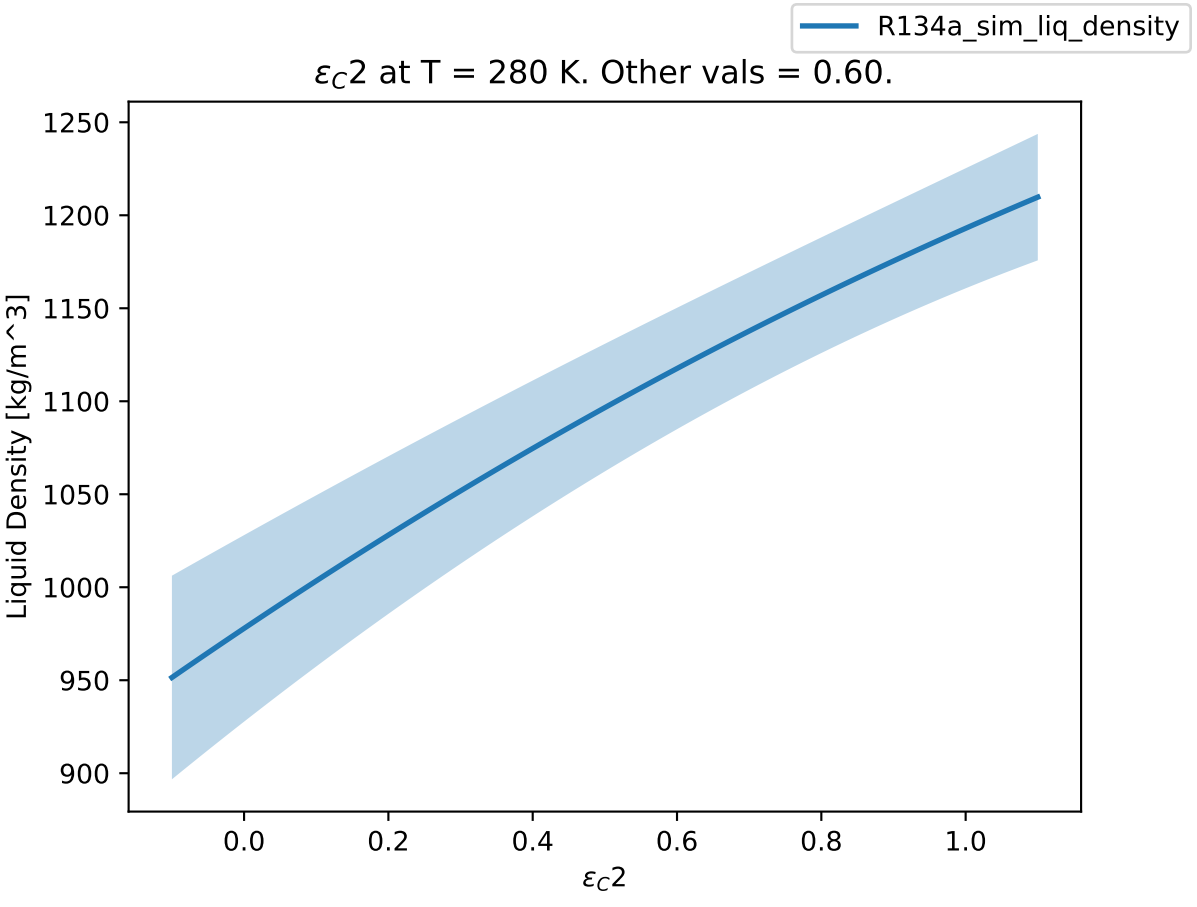

R134a_sim_liq_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

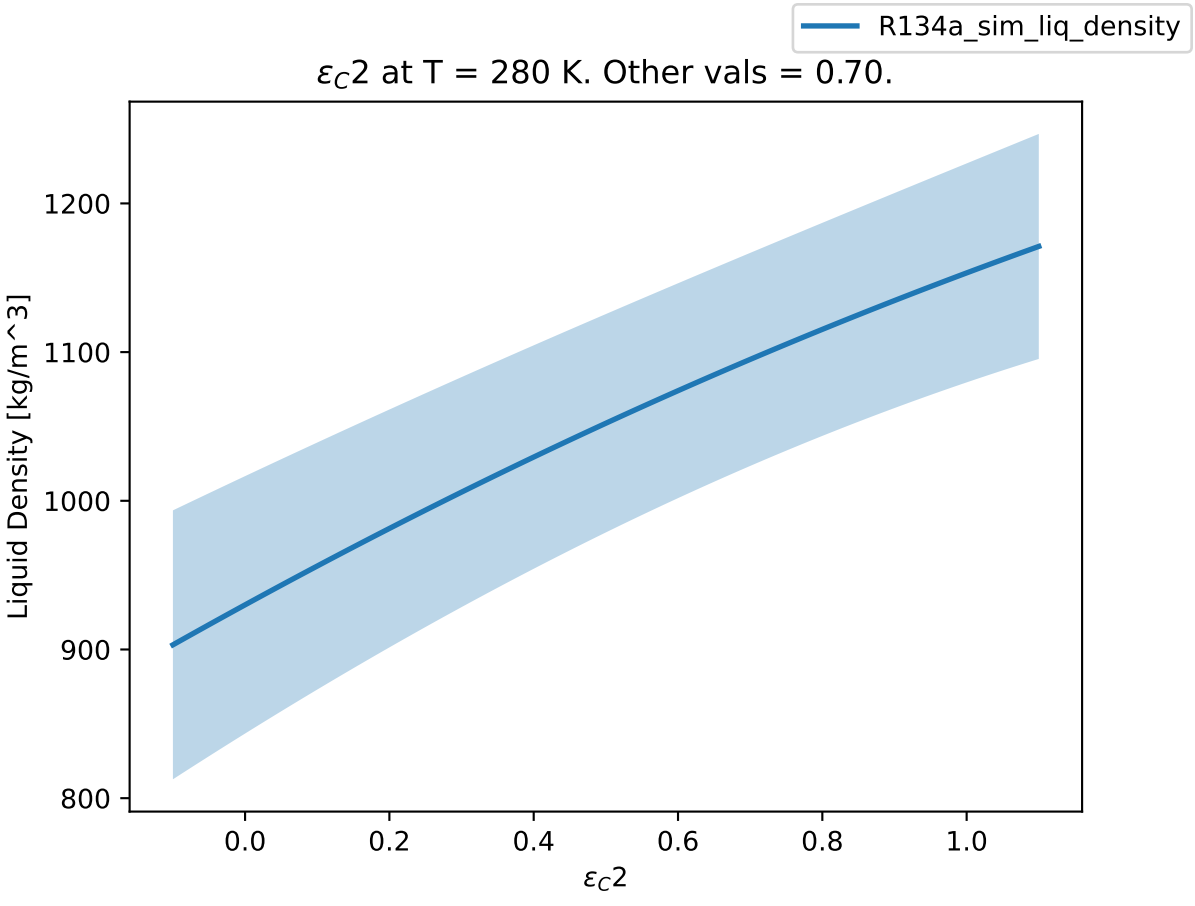

R134a_sim_liq_density
ε_C2 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

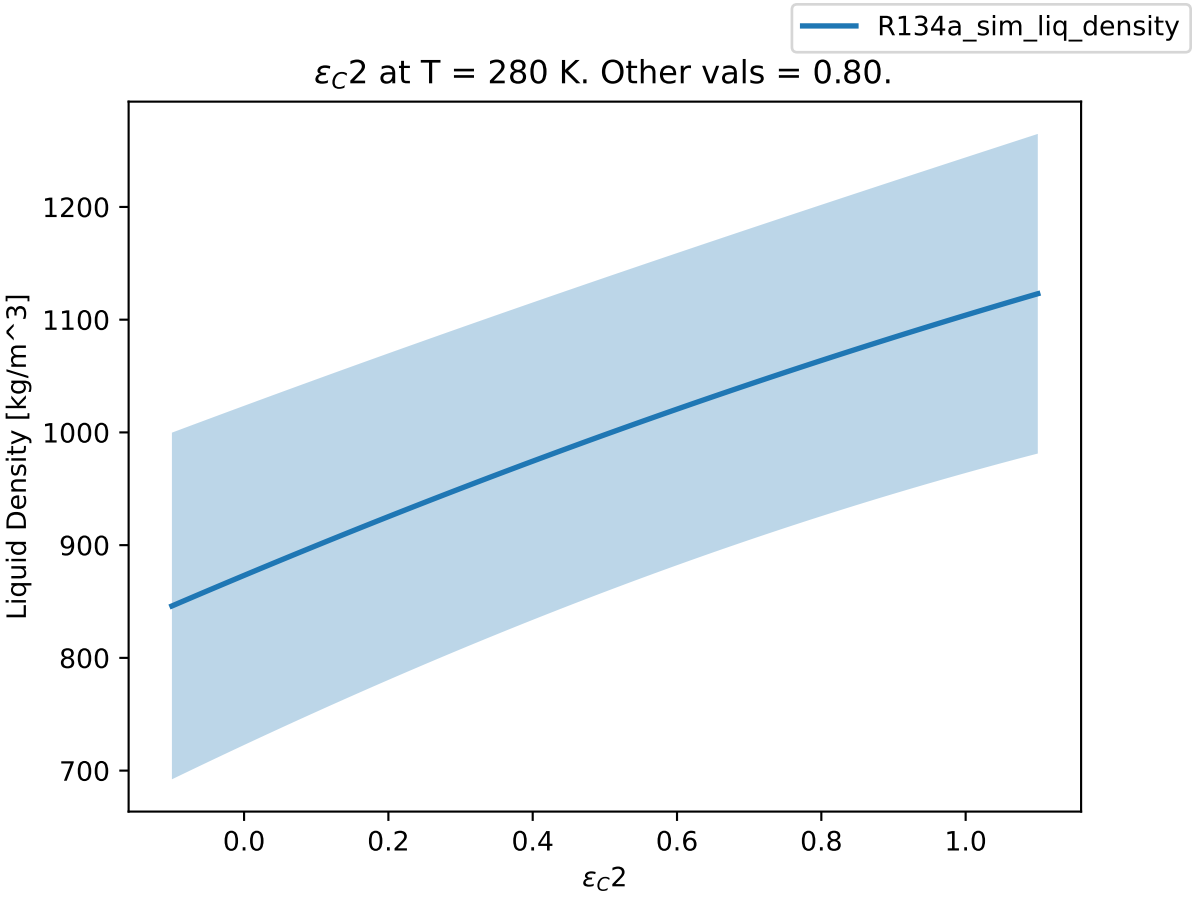

R134a_sim_liq_density
ε_C2 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

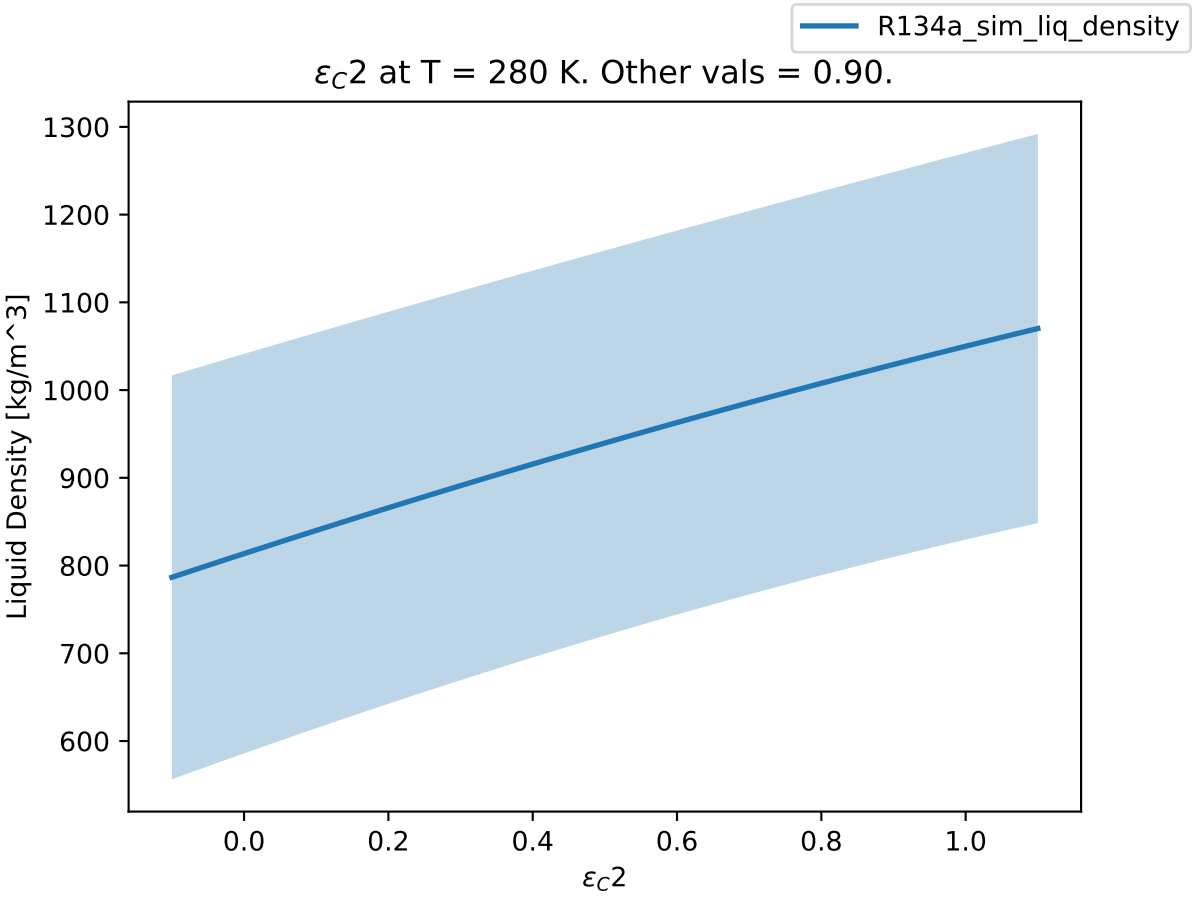

R134a_sim_liq_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

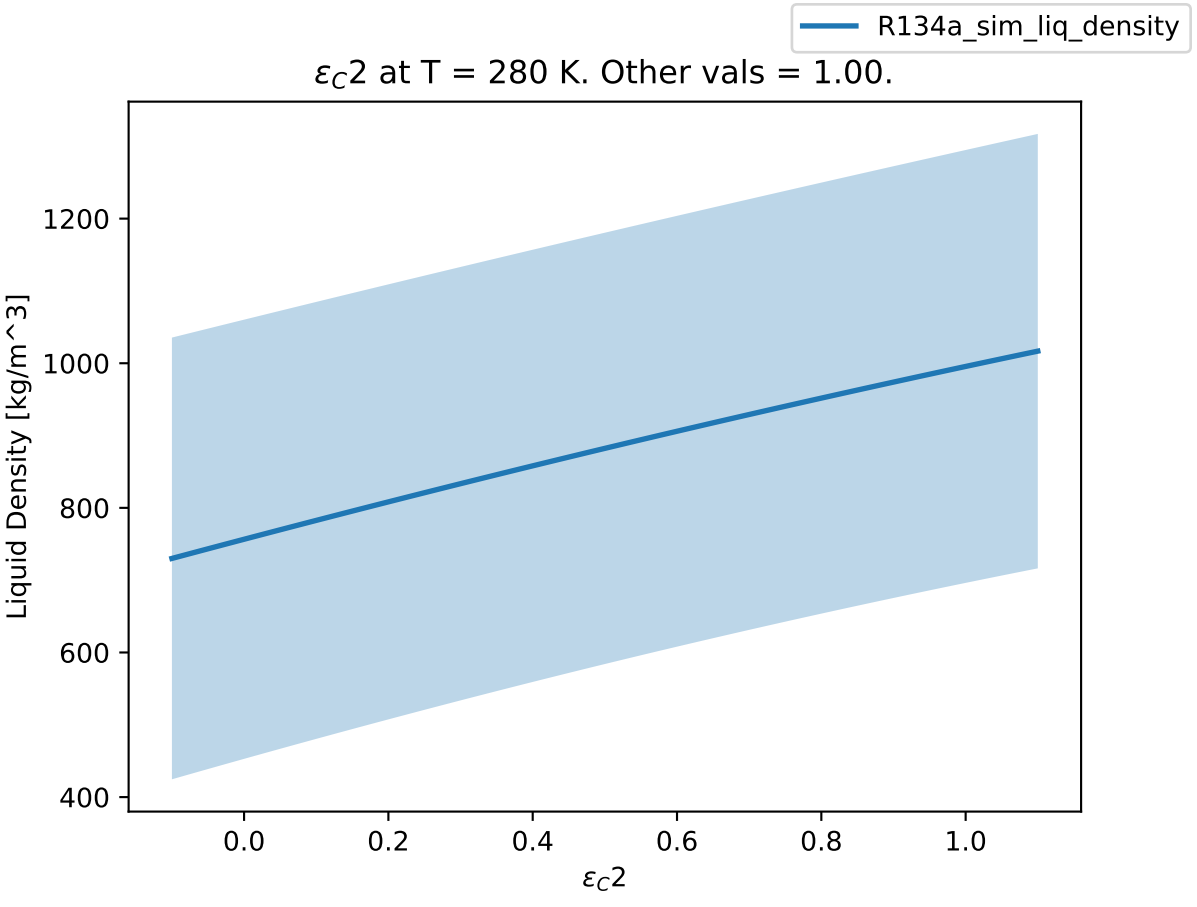

R134a_sim_liq_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

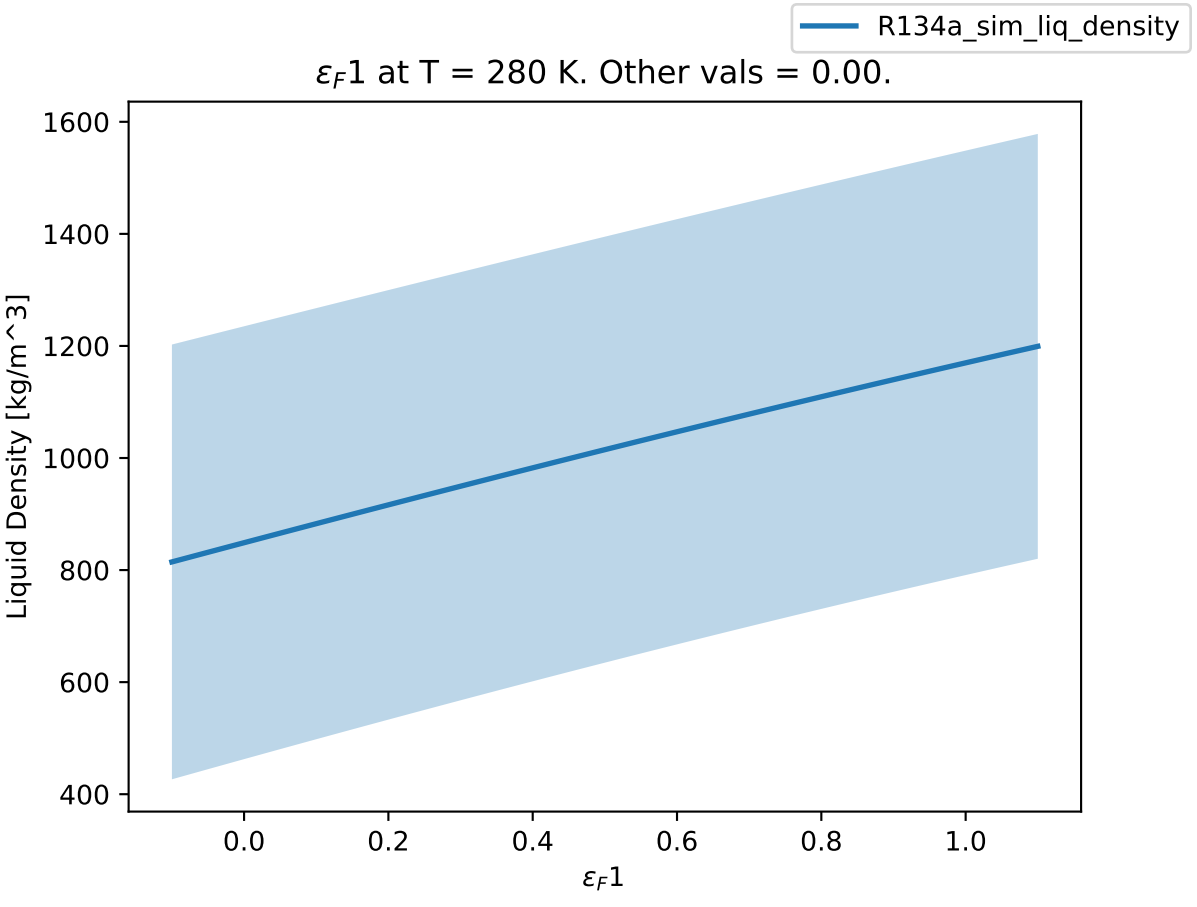

R134a_sim_liq_density
ε_C2 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

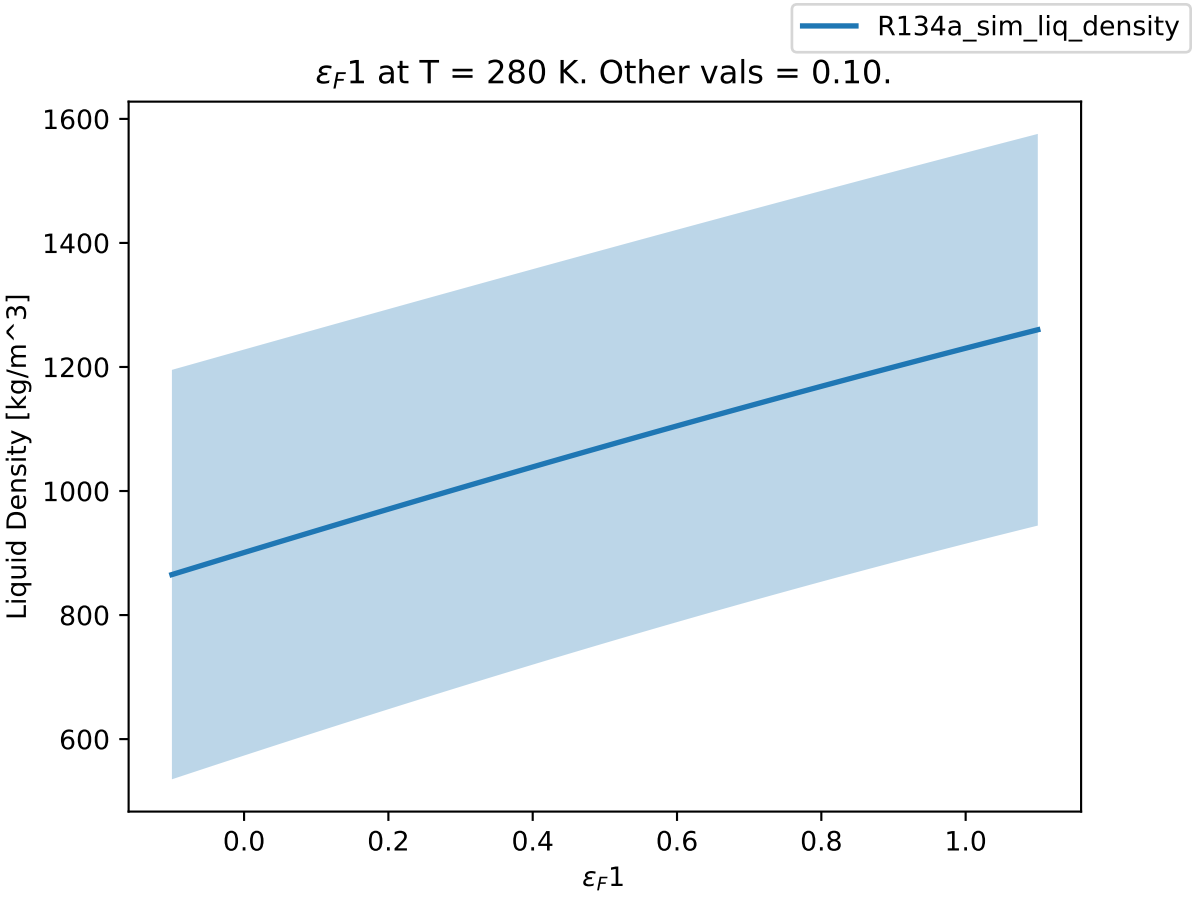

R134a_sim_liq_density
ε_C2 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

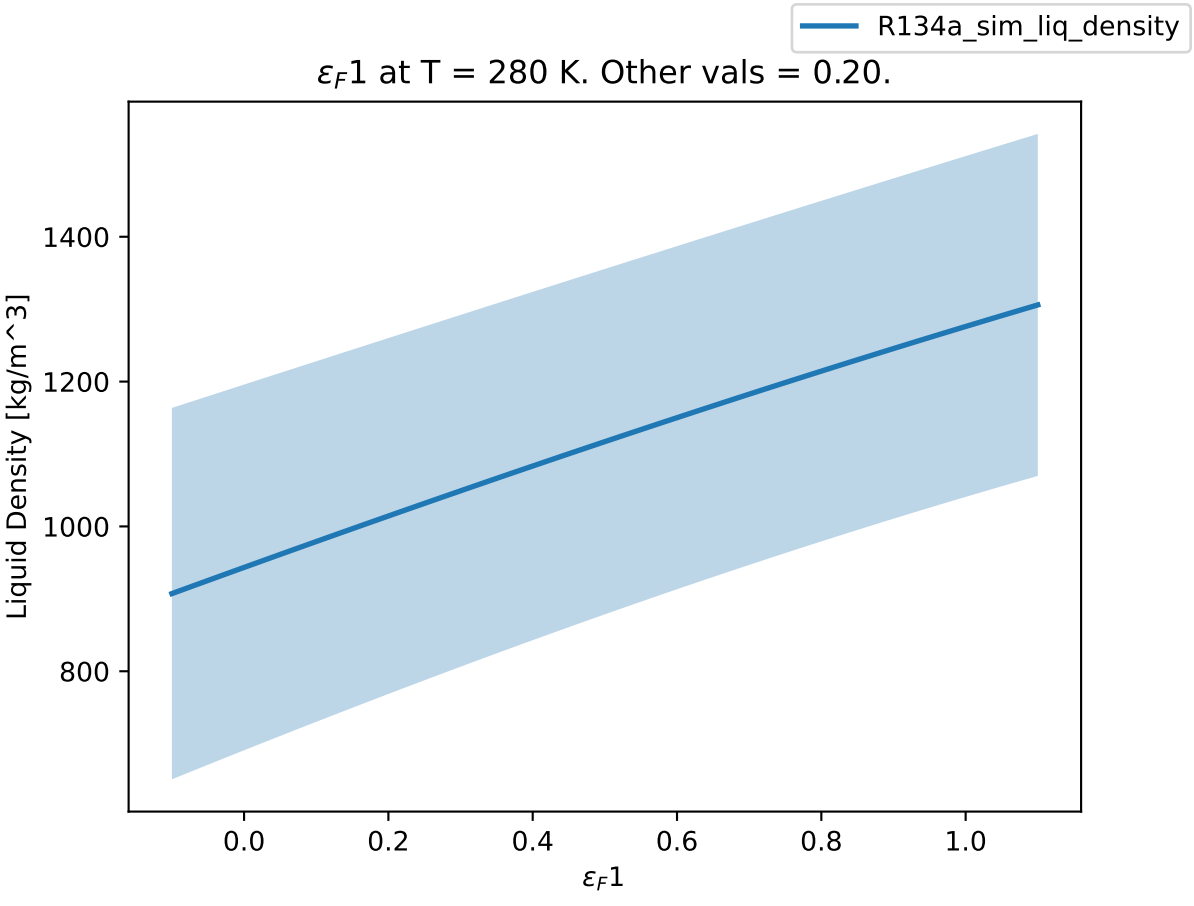

R134a_sim_liq_density
ε_C2 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

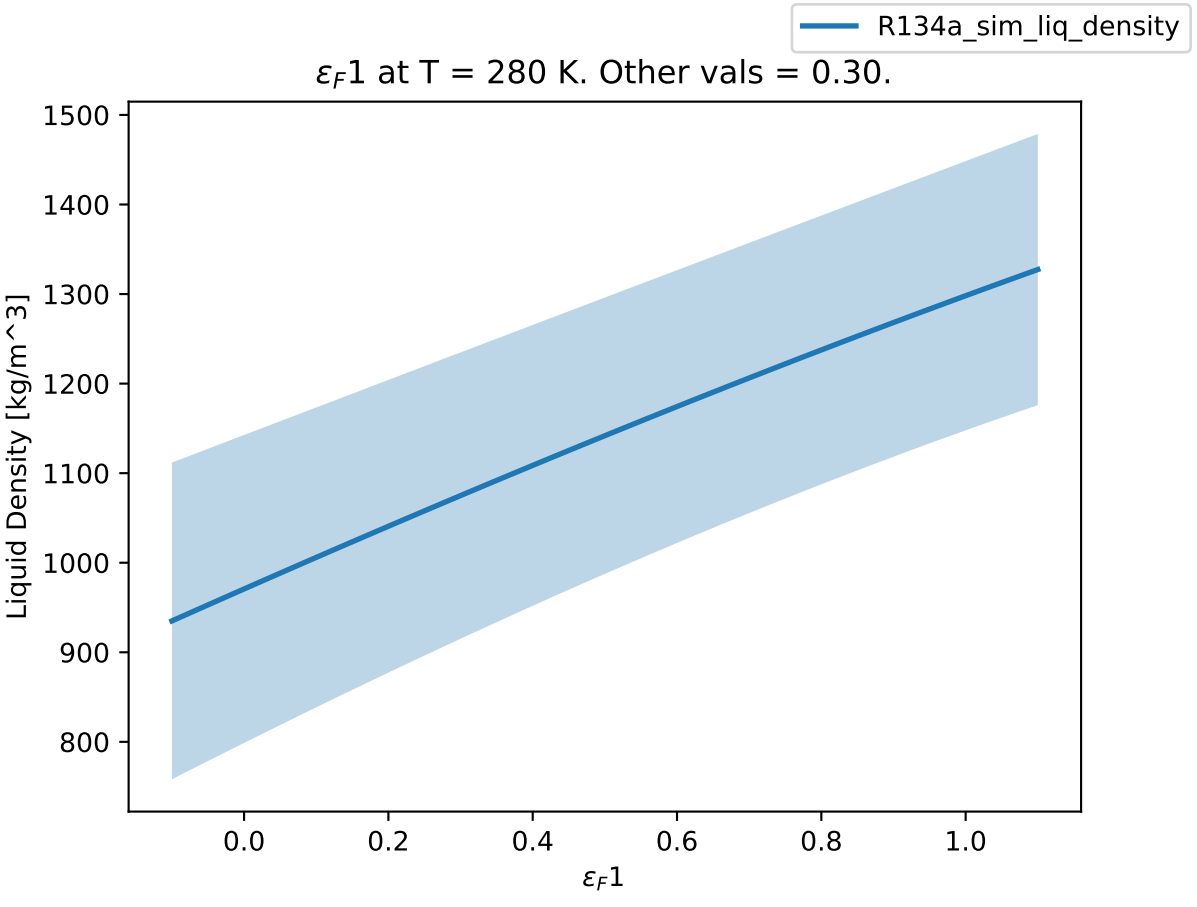

R134a_sim_liq_density
ε_C2 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

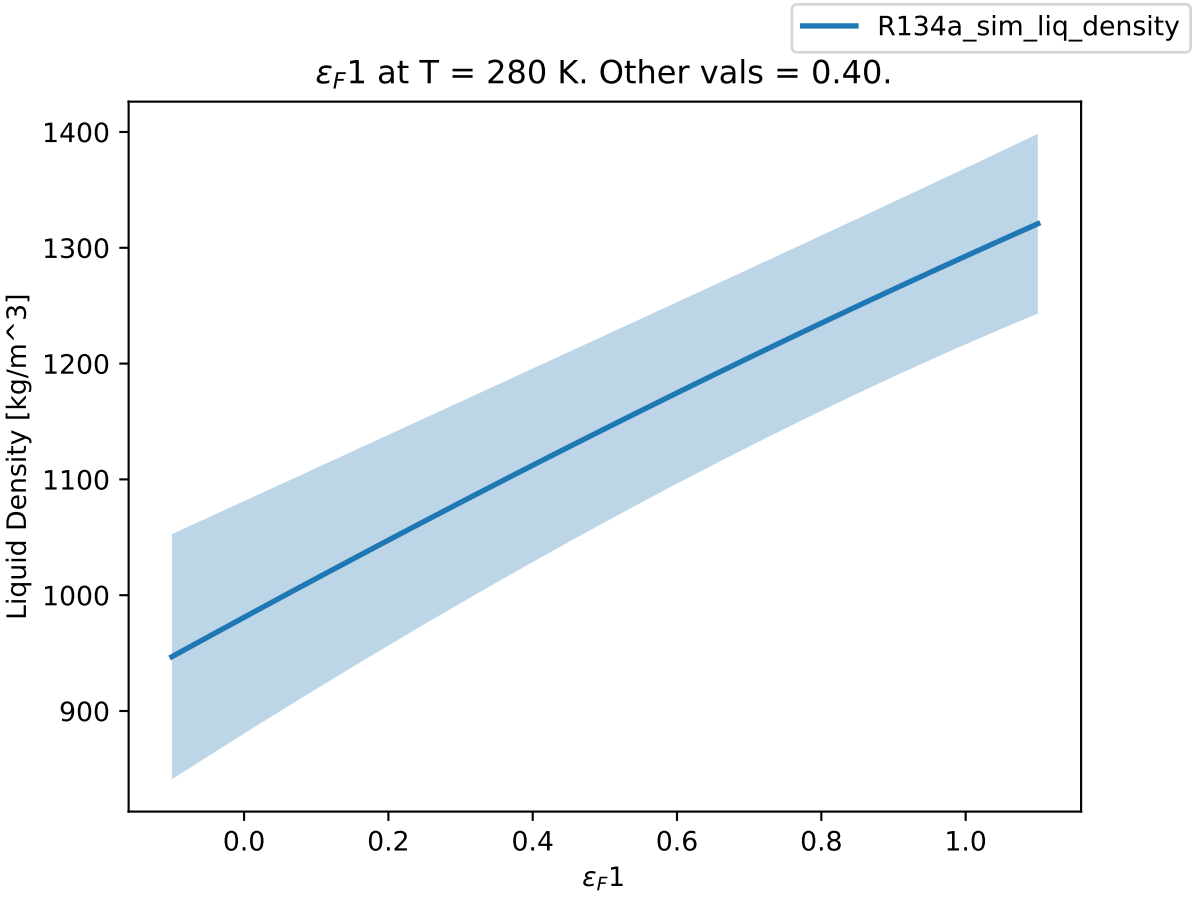

R134a_sim_liq_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

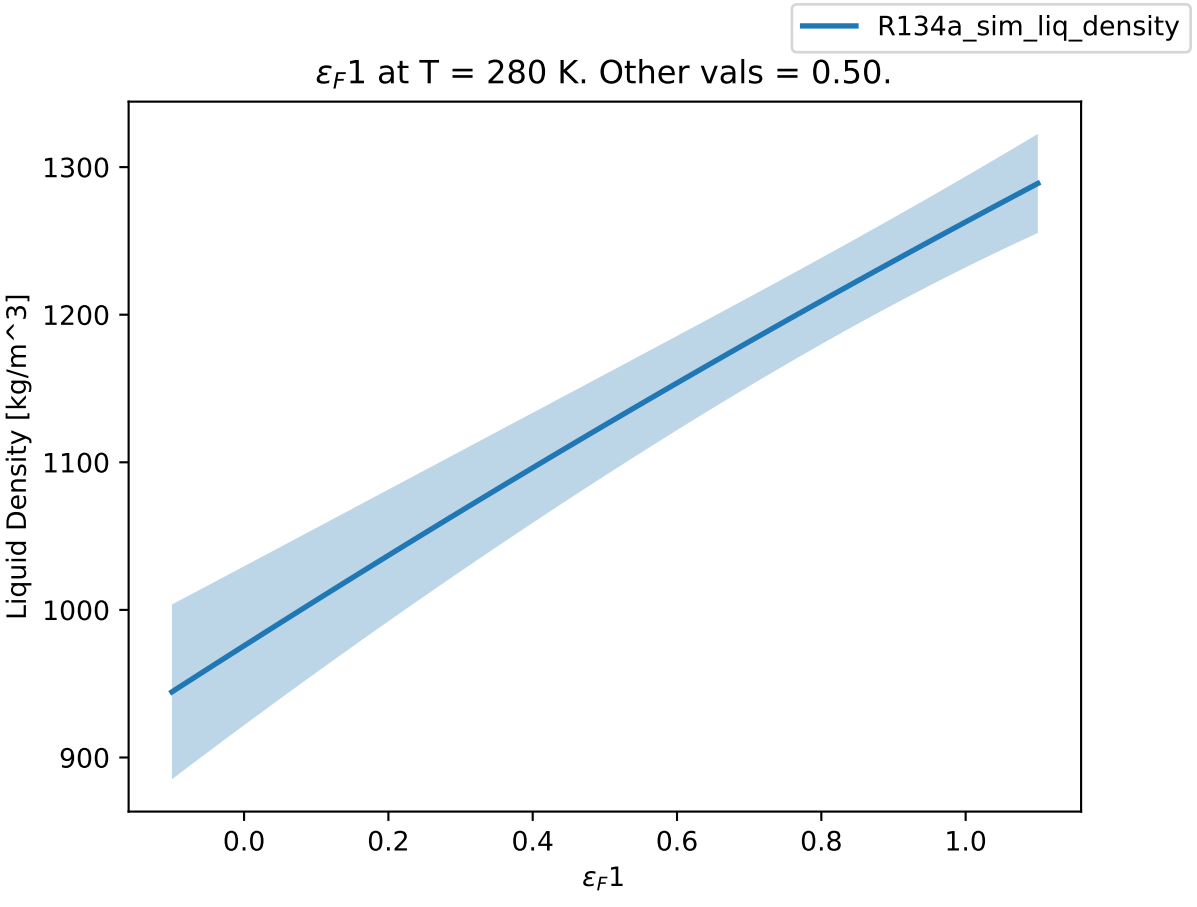

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

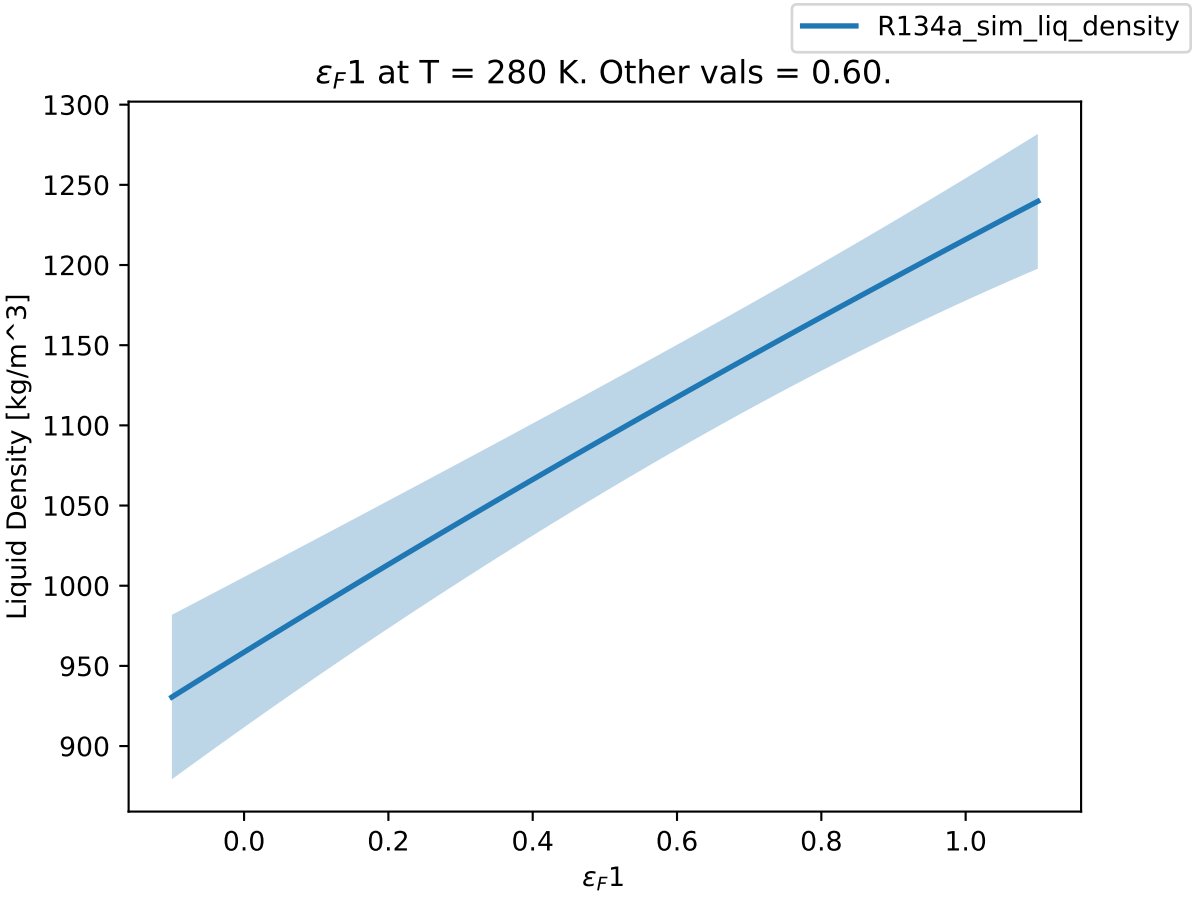

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

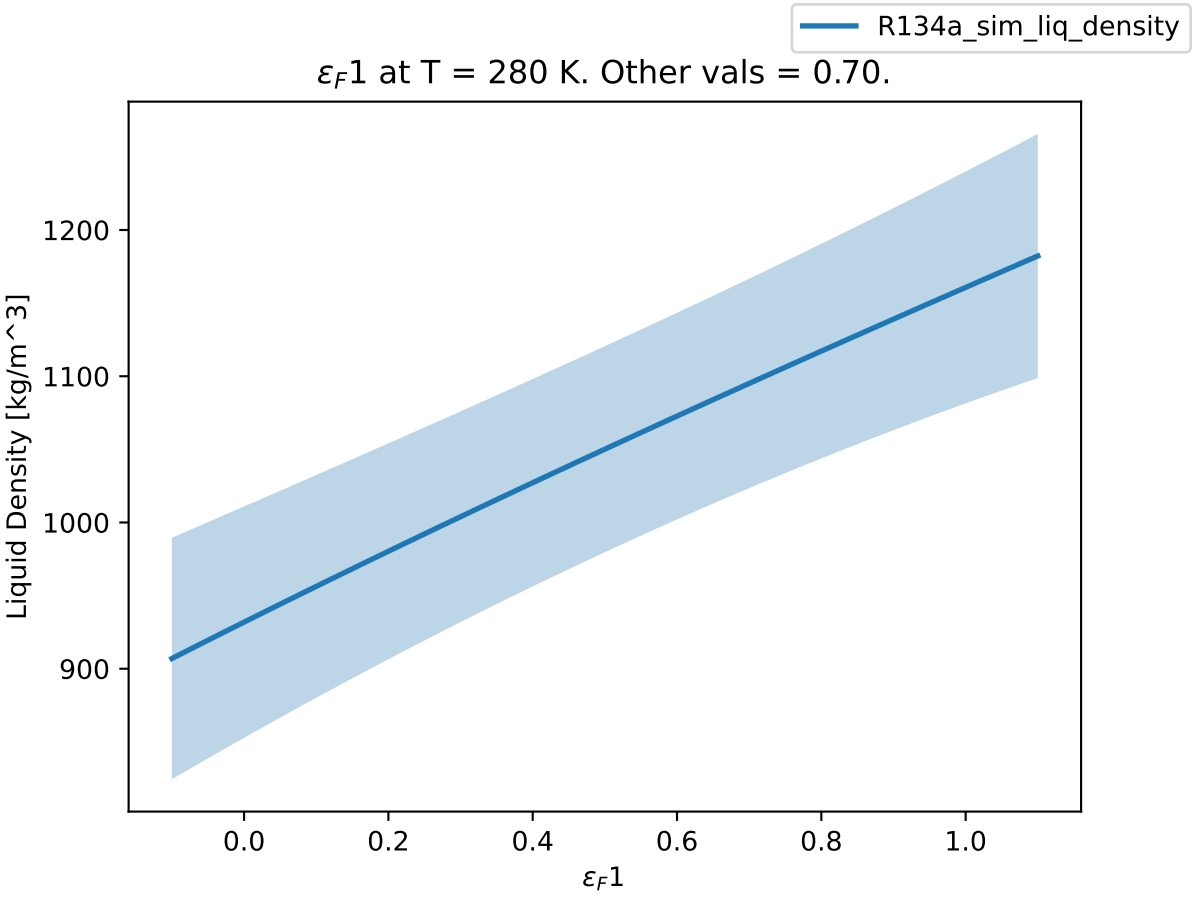

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1400
1200
1000
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

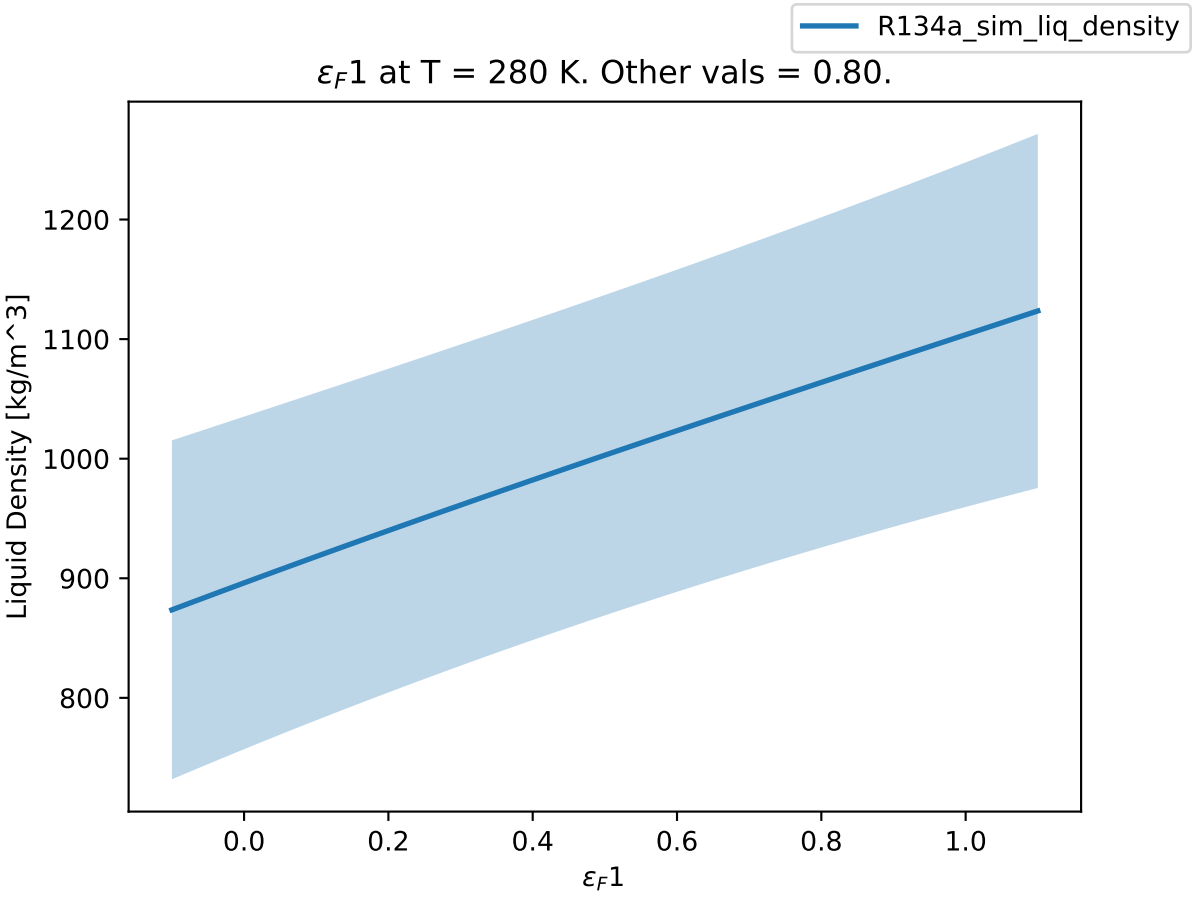

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1500
1400
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

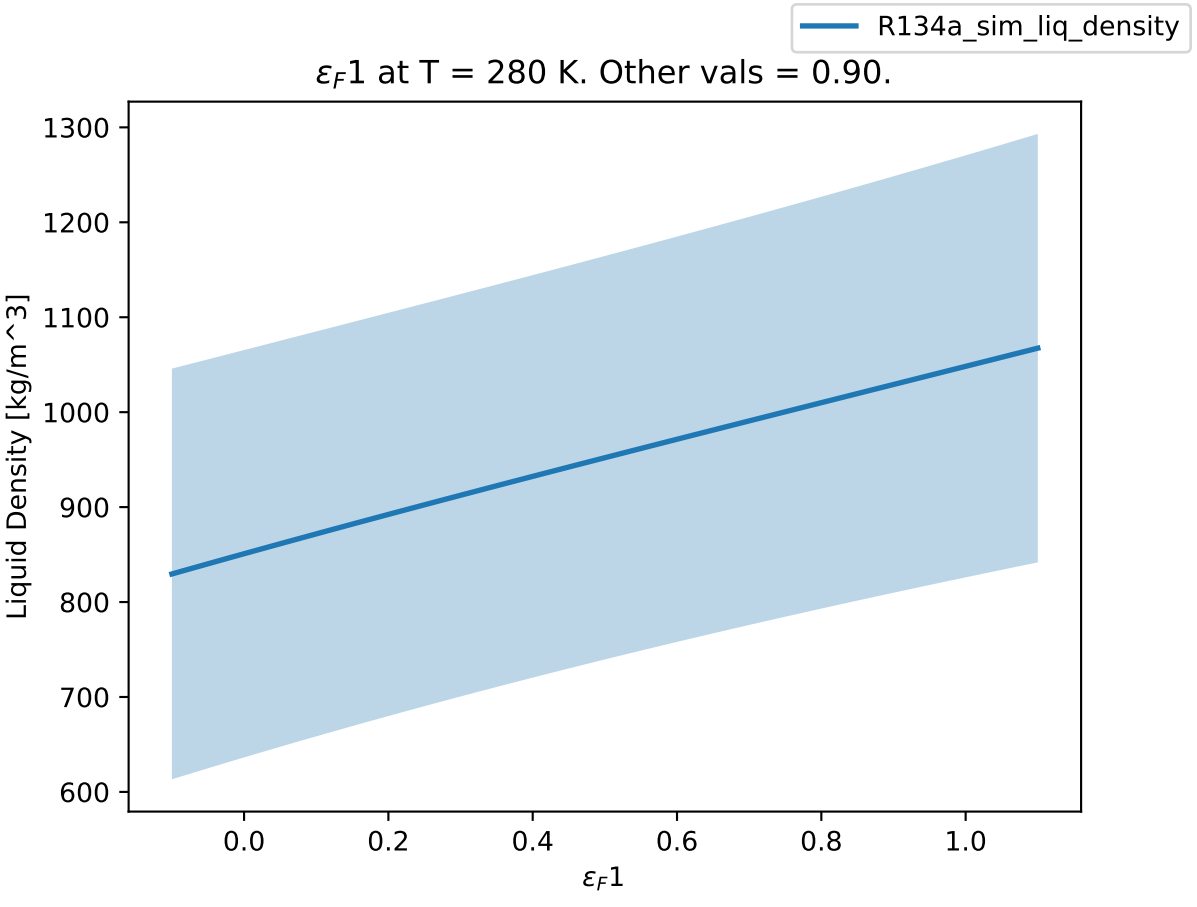

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1400
1300
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

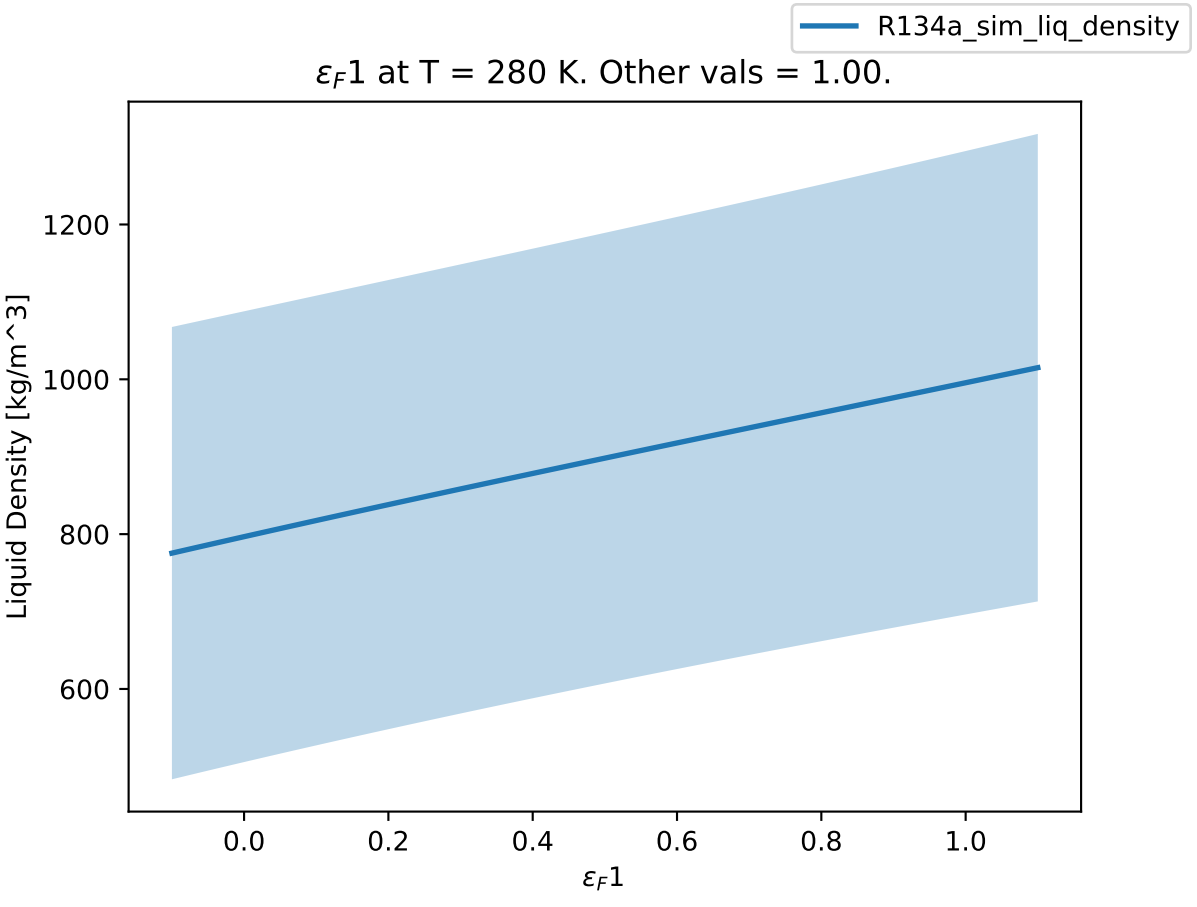

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

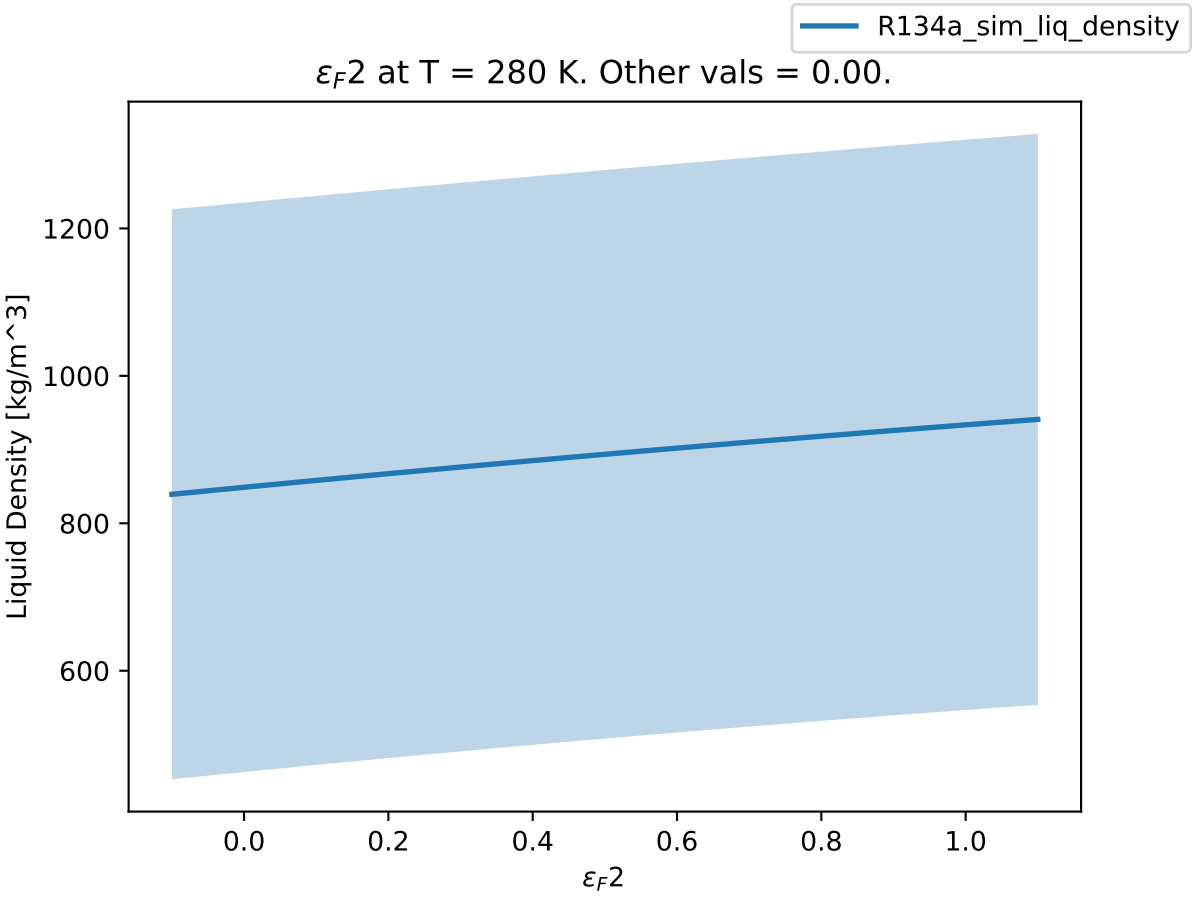

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1300
1250
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

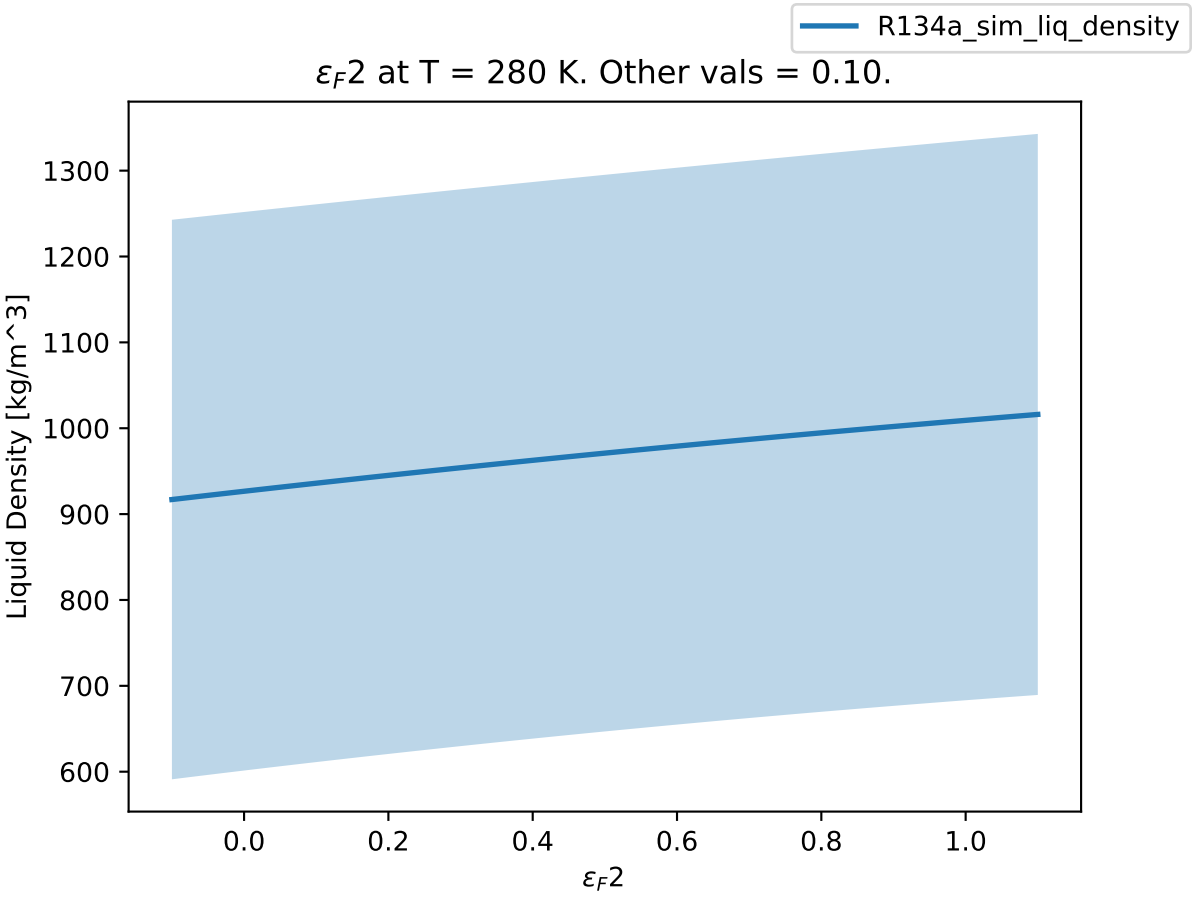

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

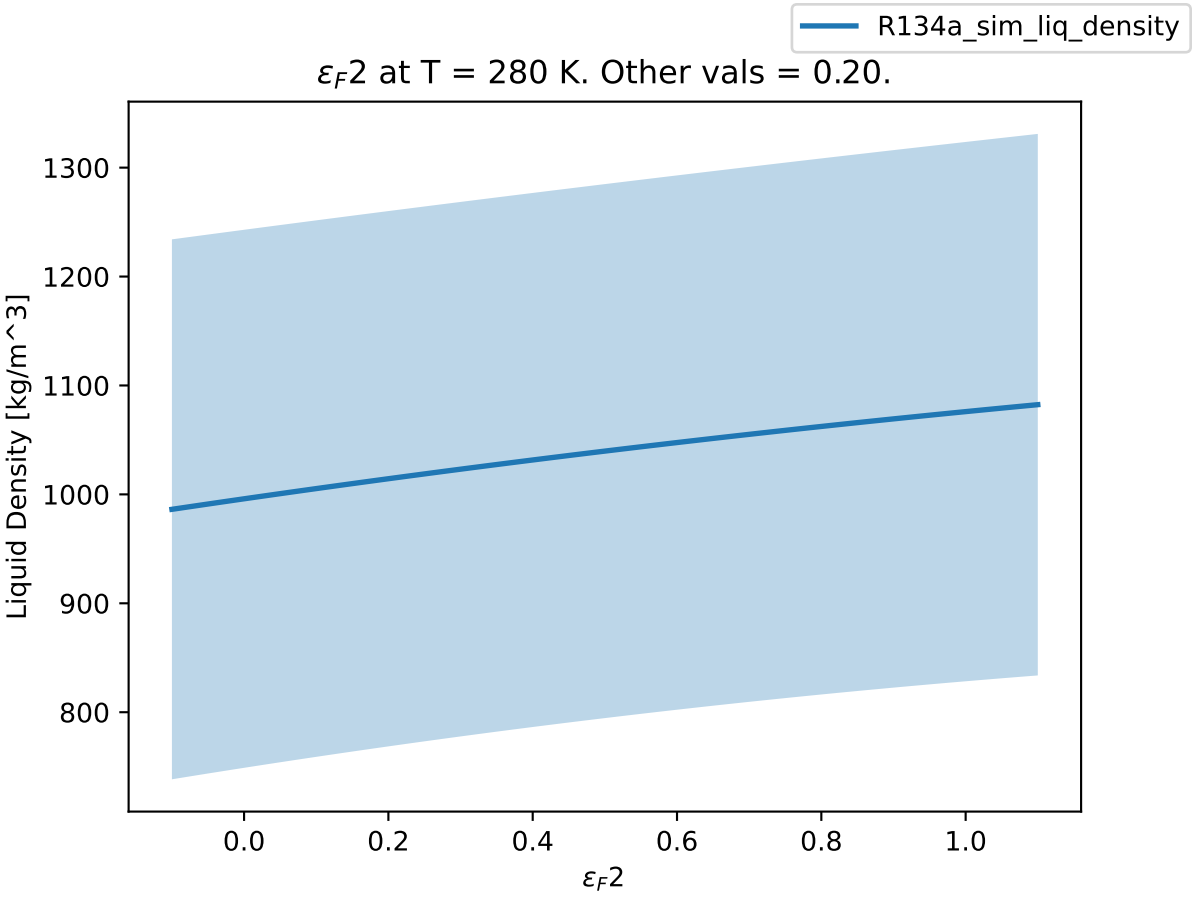

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

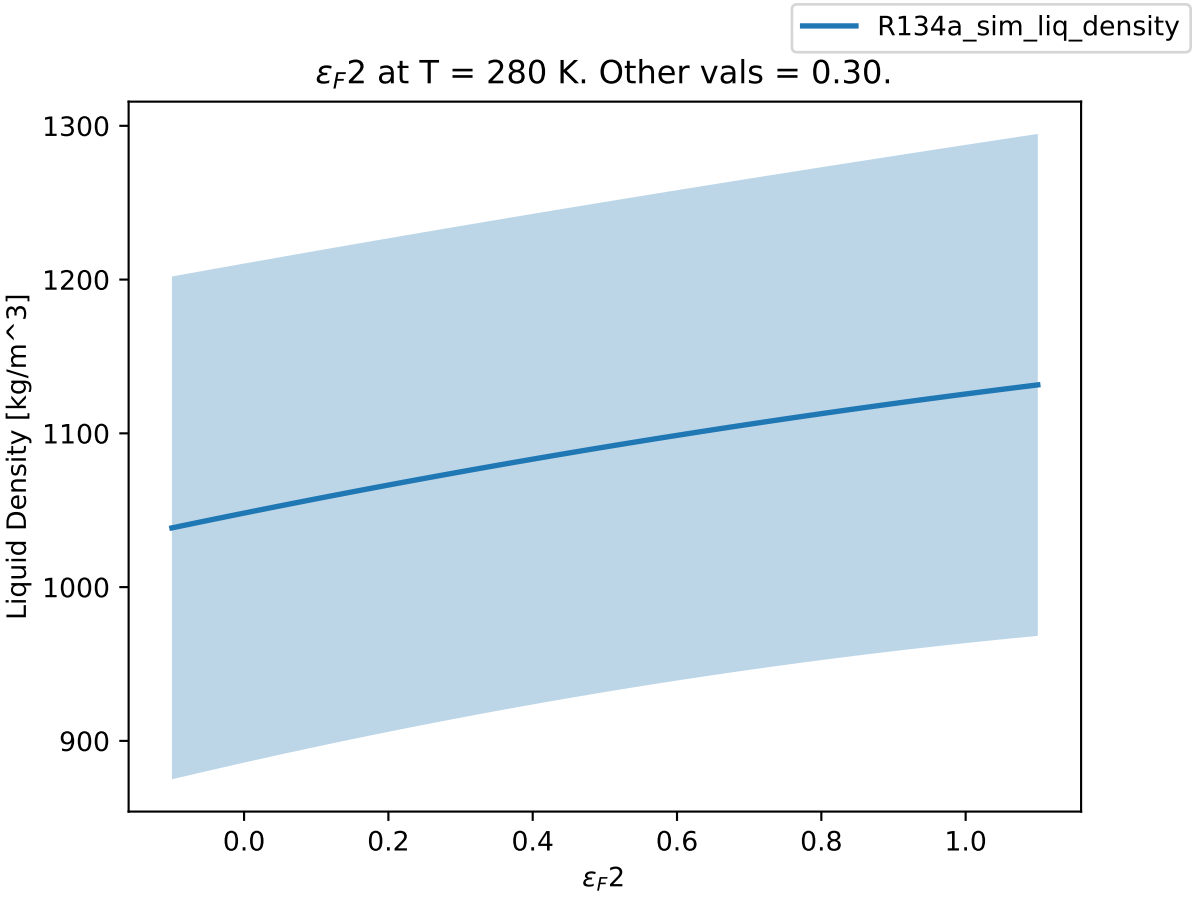

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

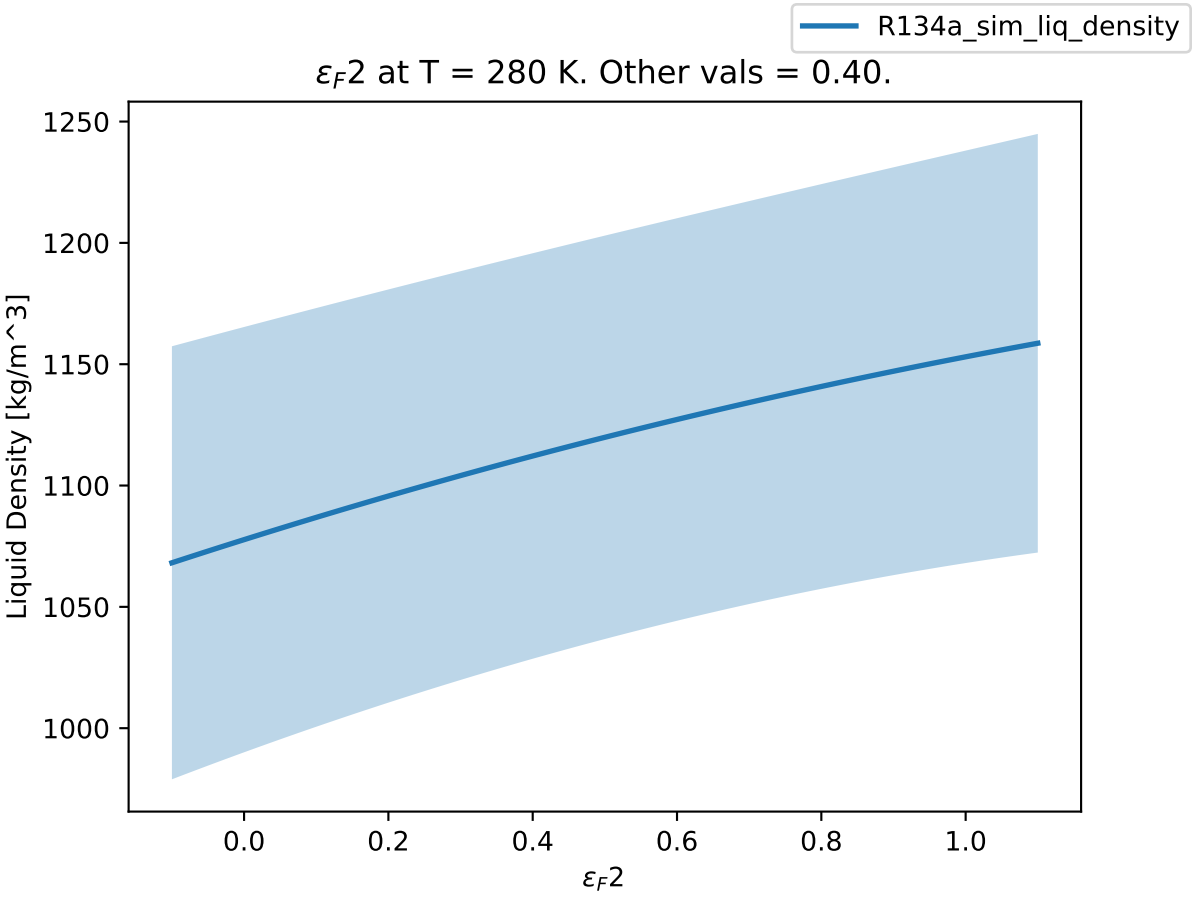

R134a_sim_liq_density
ε_F1 at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

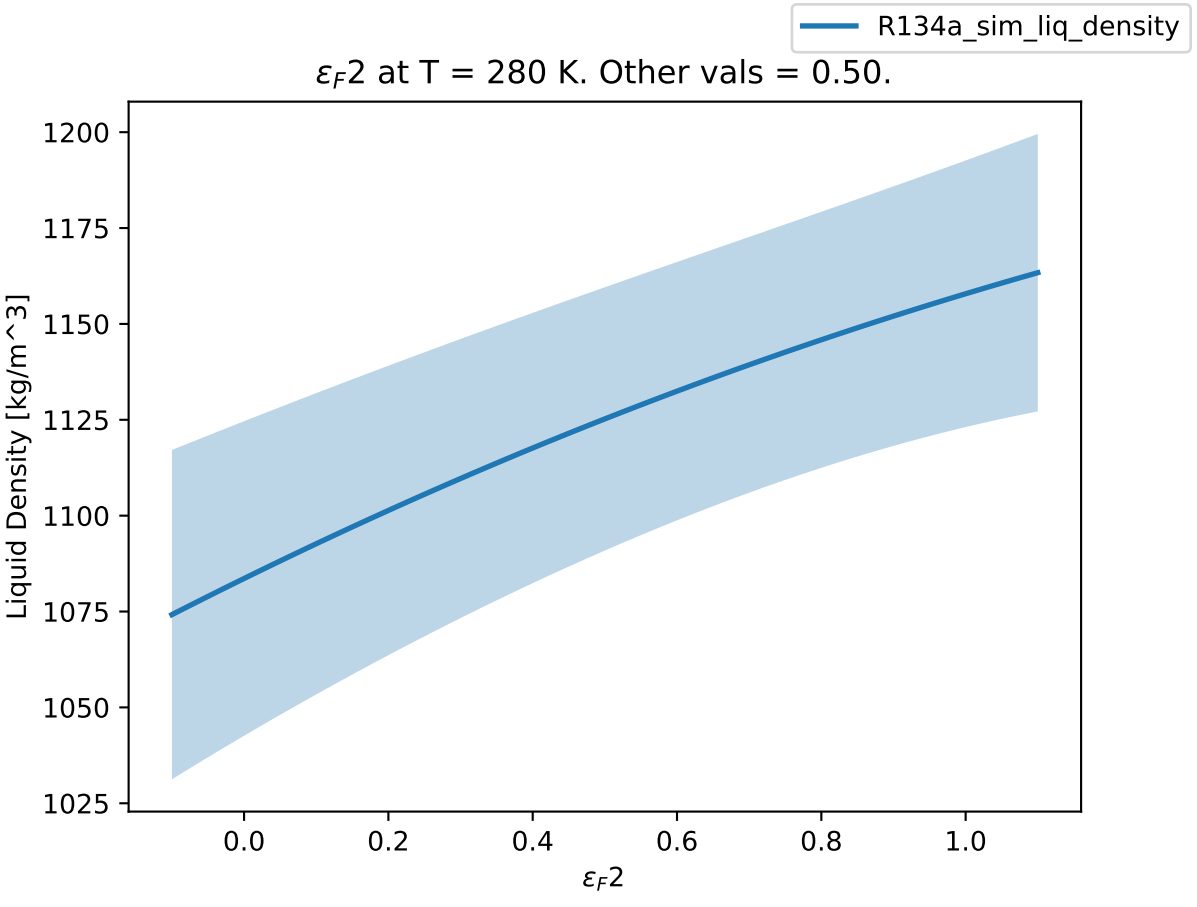

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

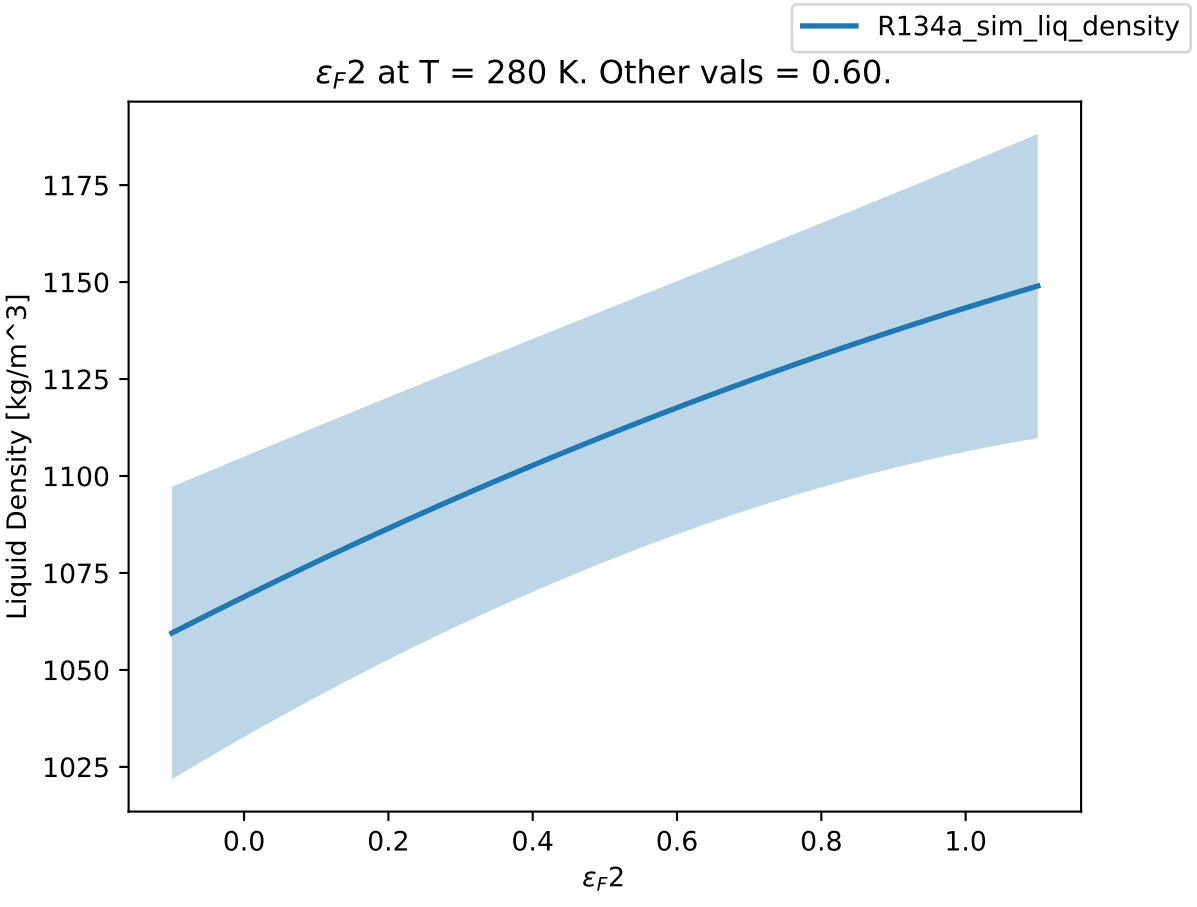

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

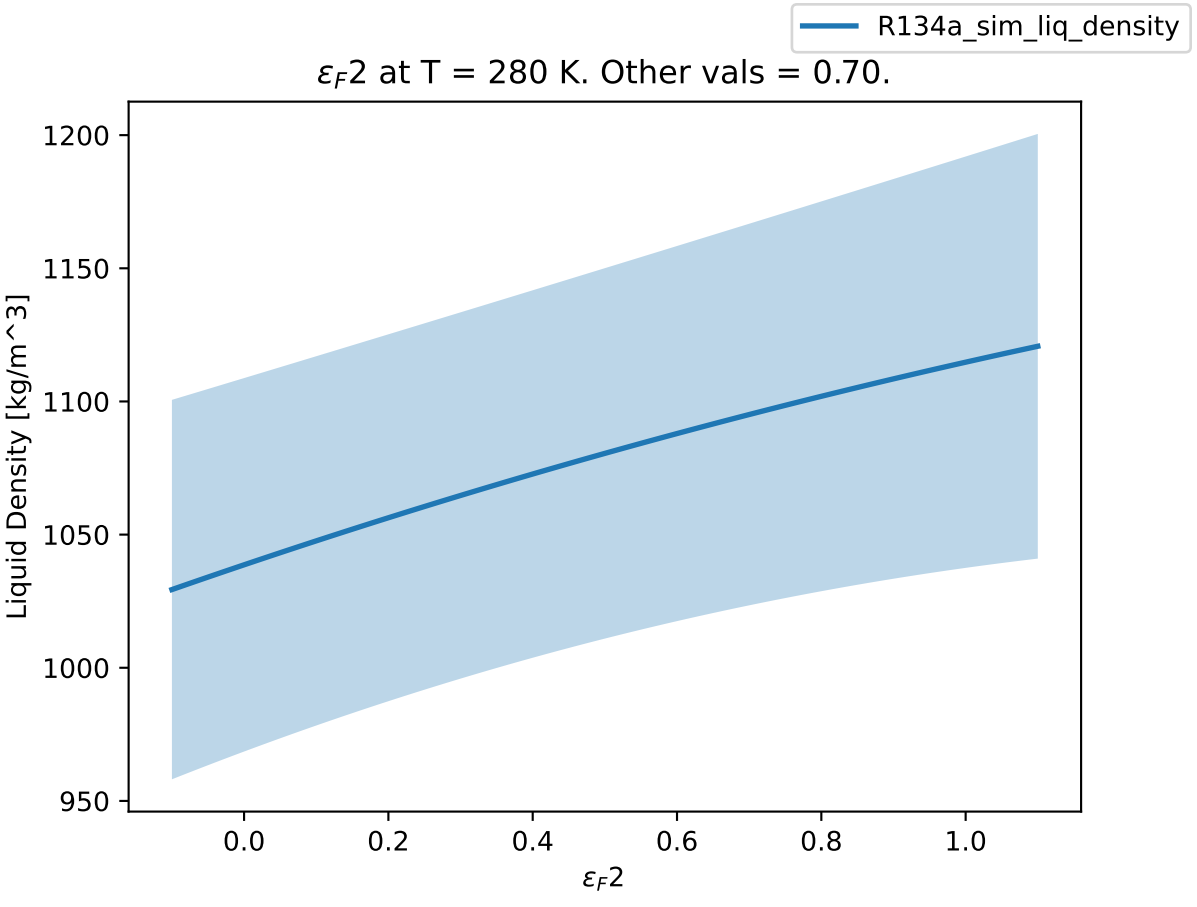

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

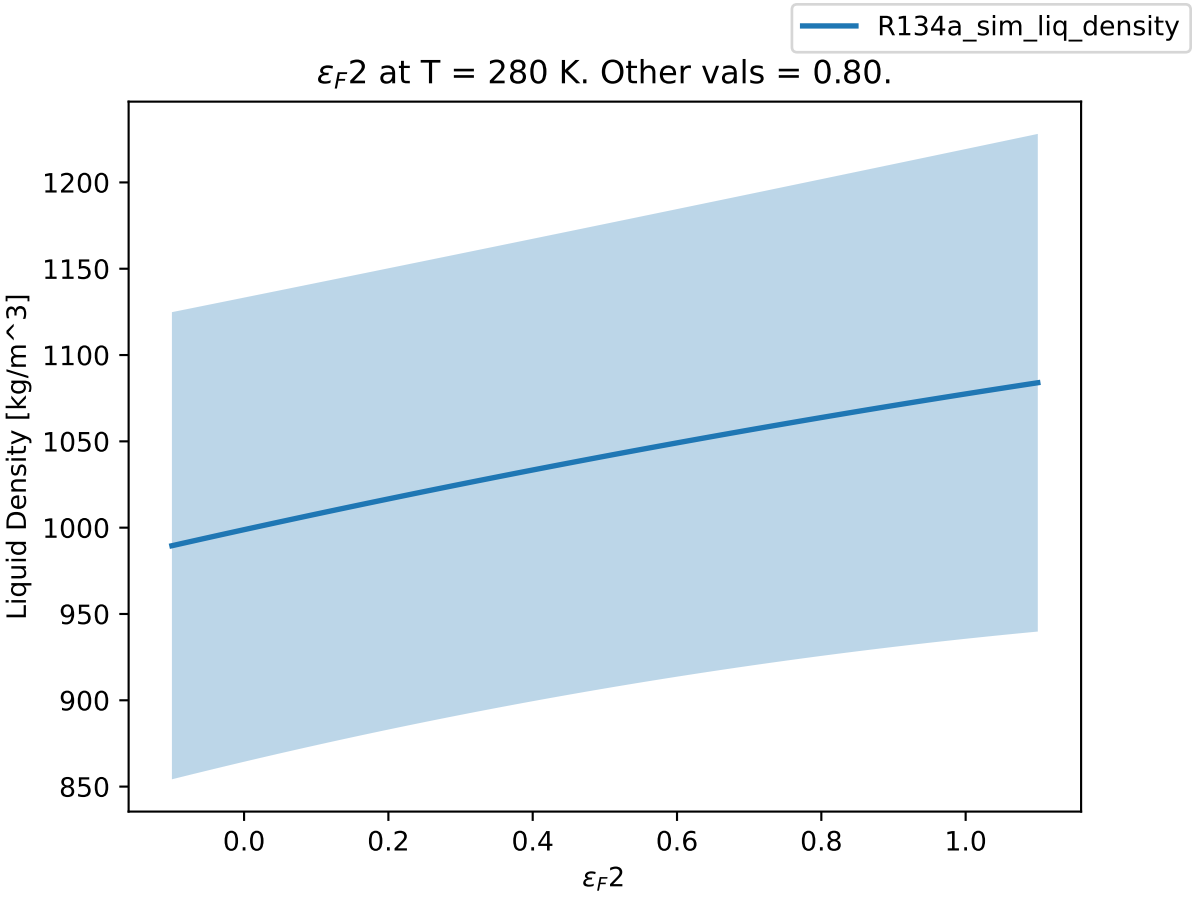

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

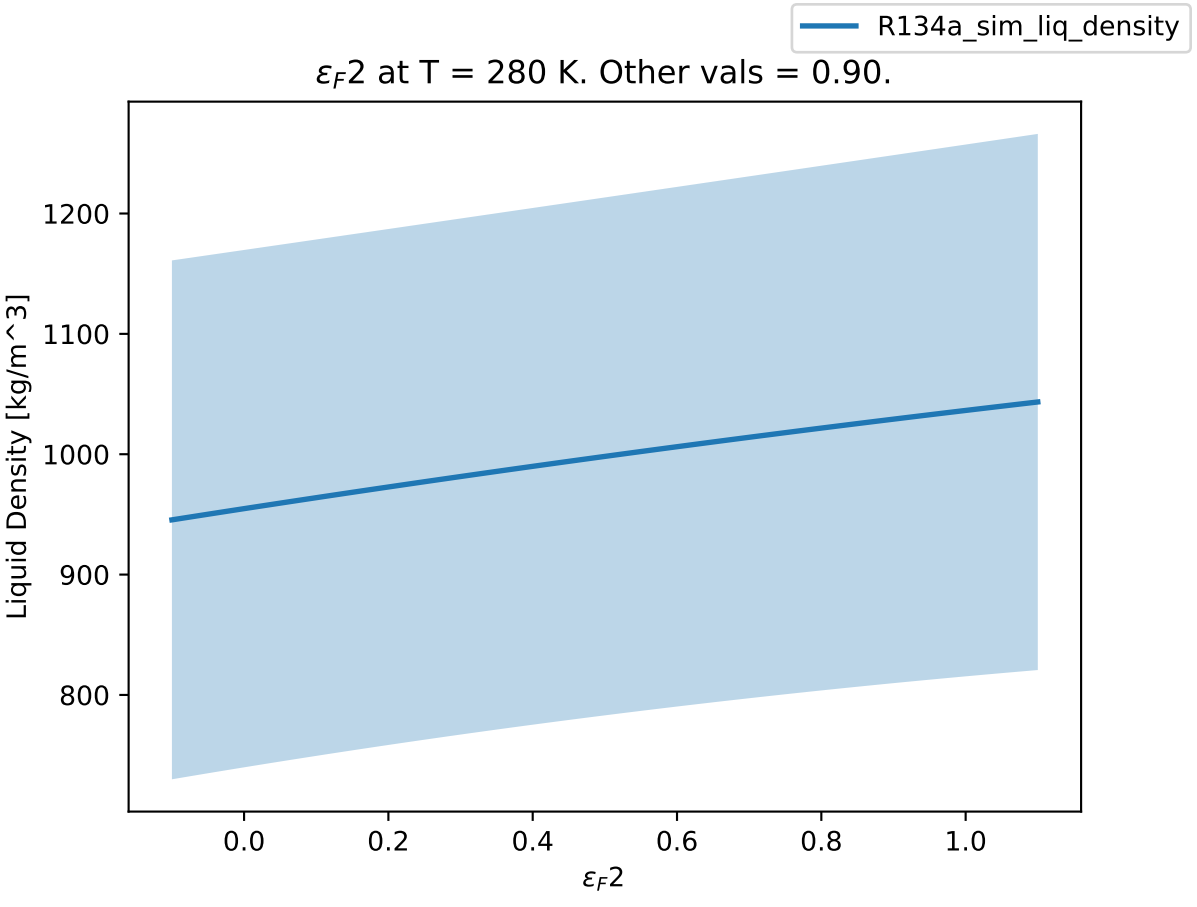

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

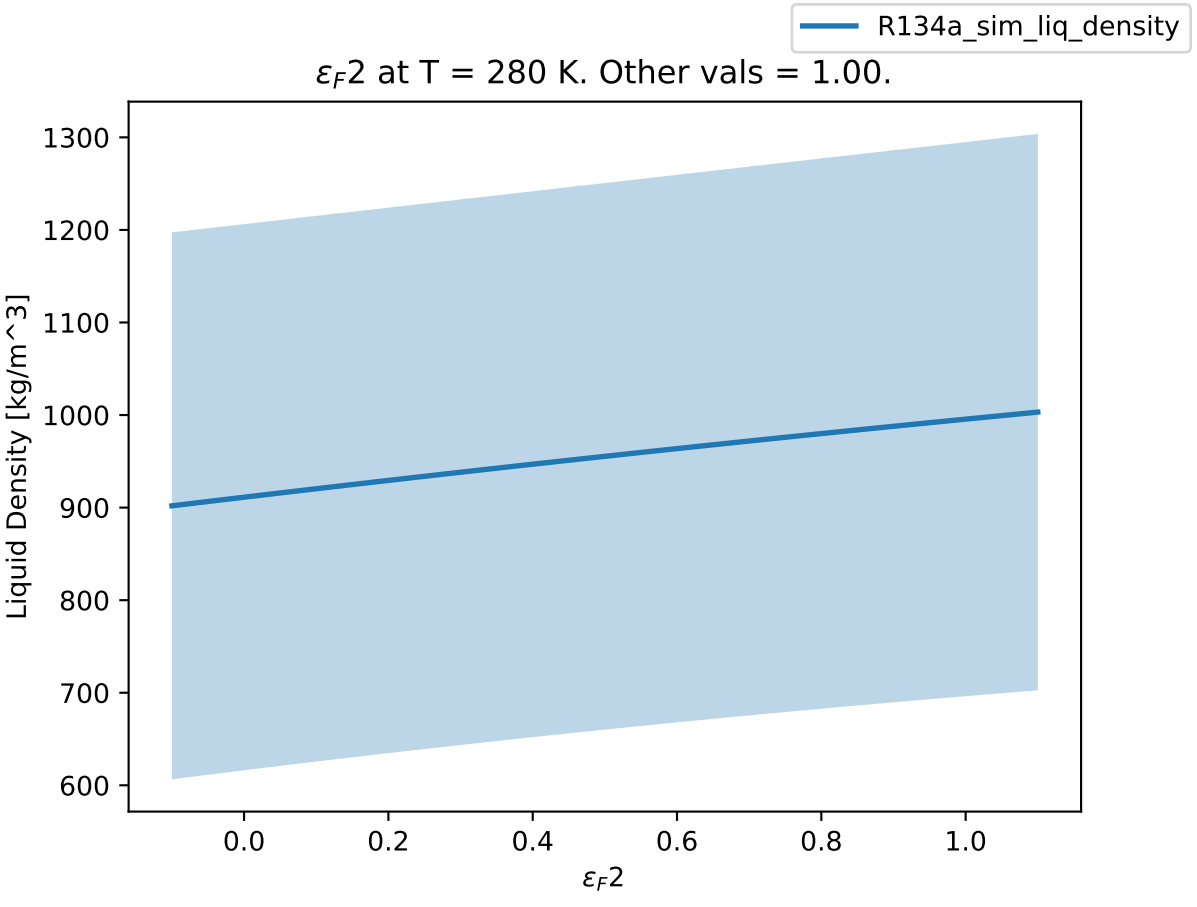

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1200
1175
1150
1125
1100
1075
1050
1025
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

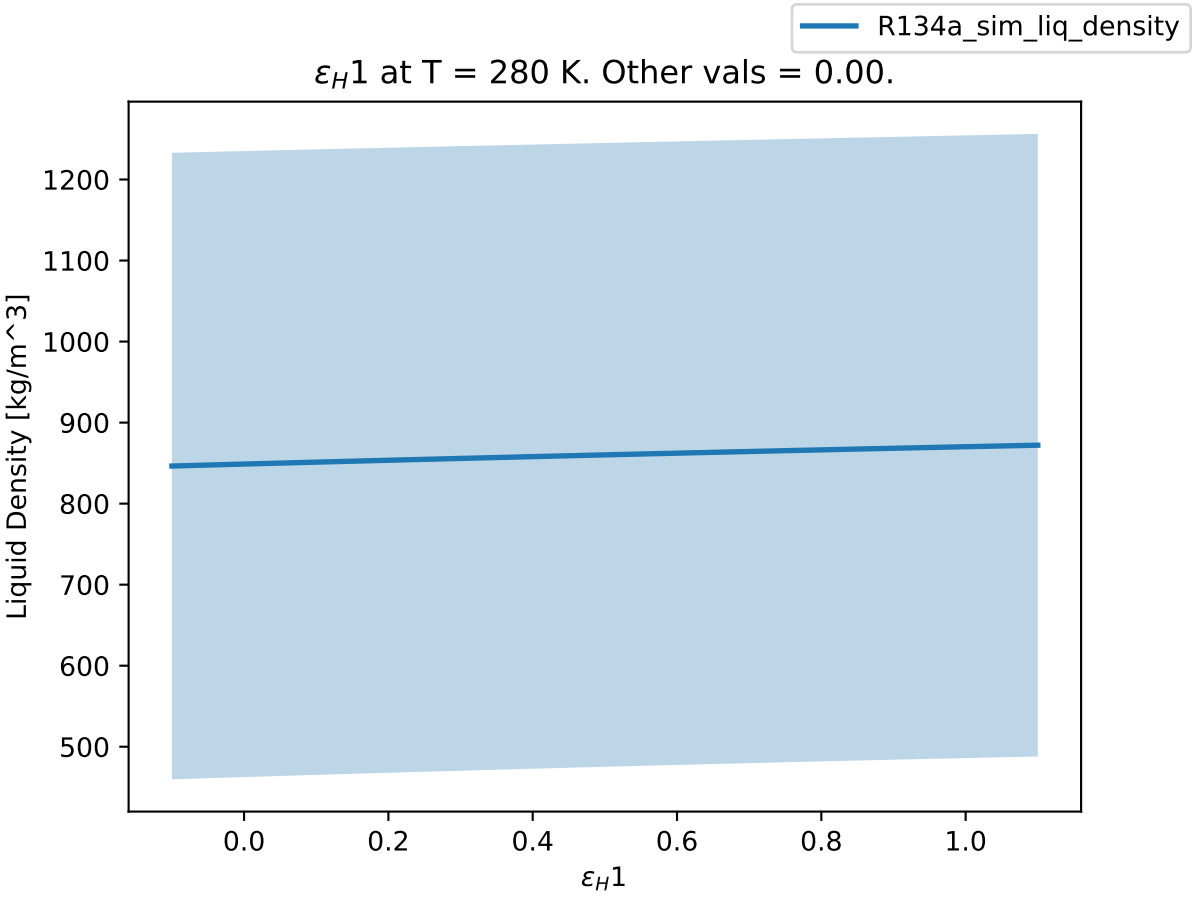

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1175
1150
1125
1100
1075
1050
1025
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

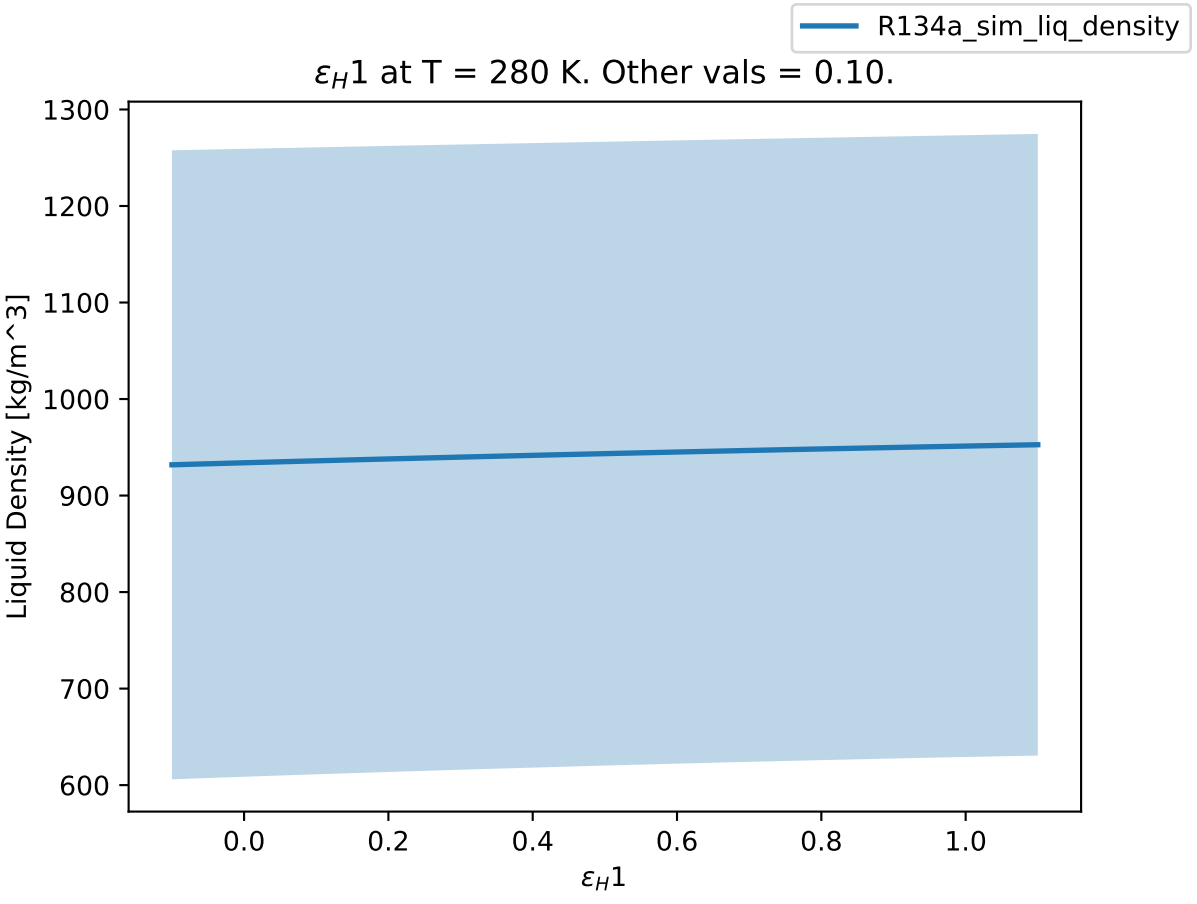

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1200
1150
1100
1050
1000
950
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

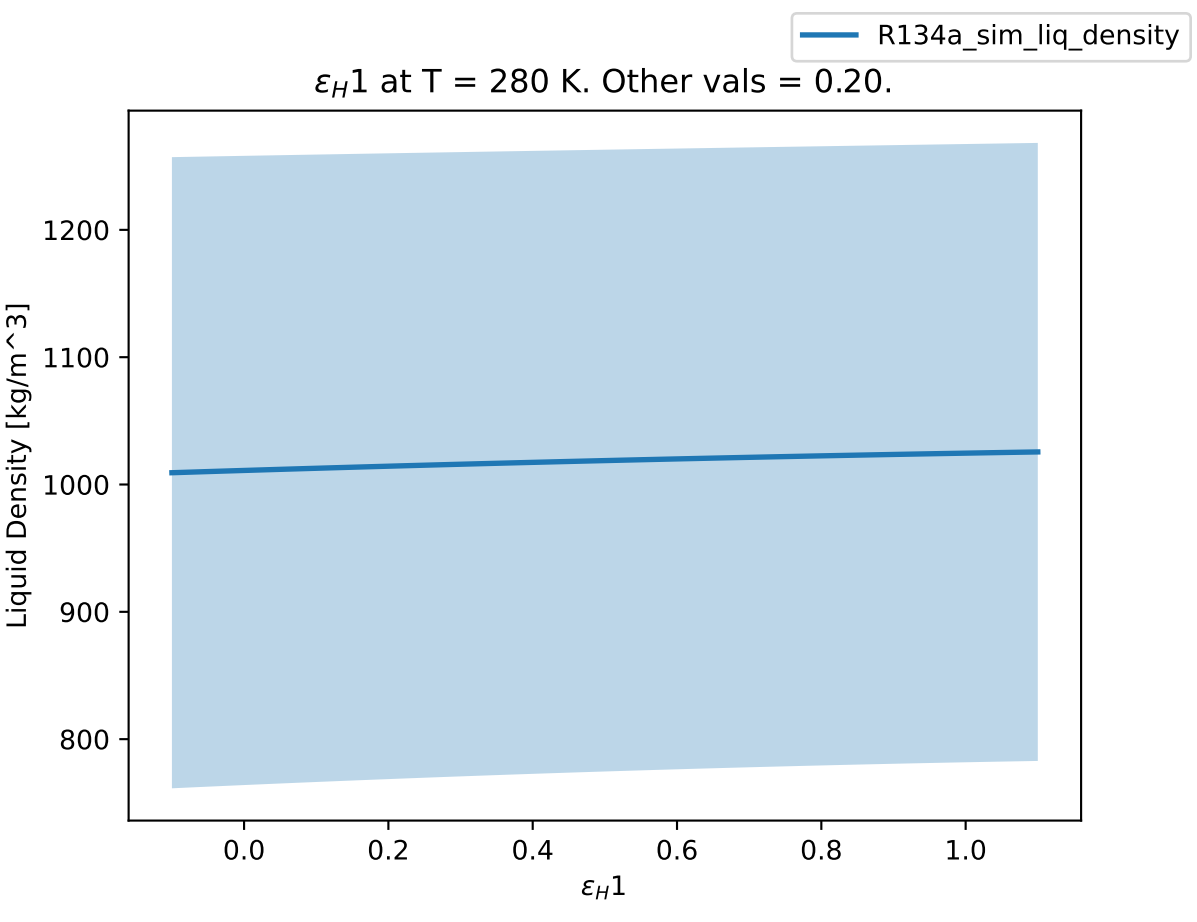

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1150
1100
1050
1000
950
900
850
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

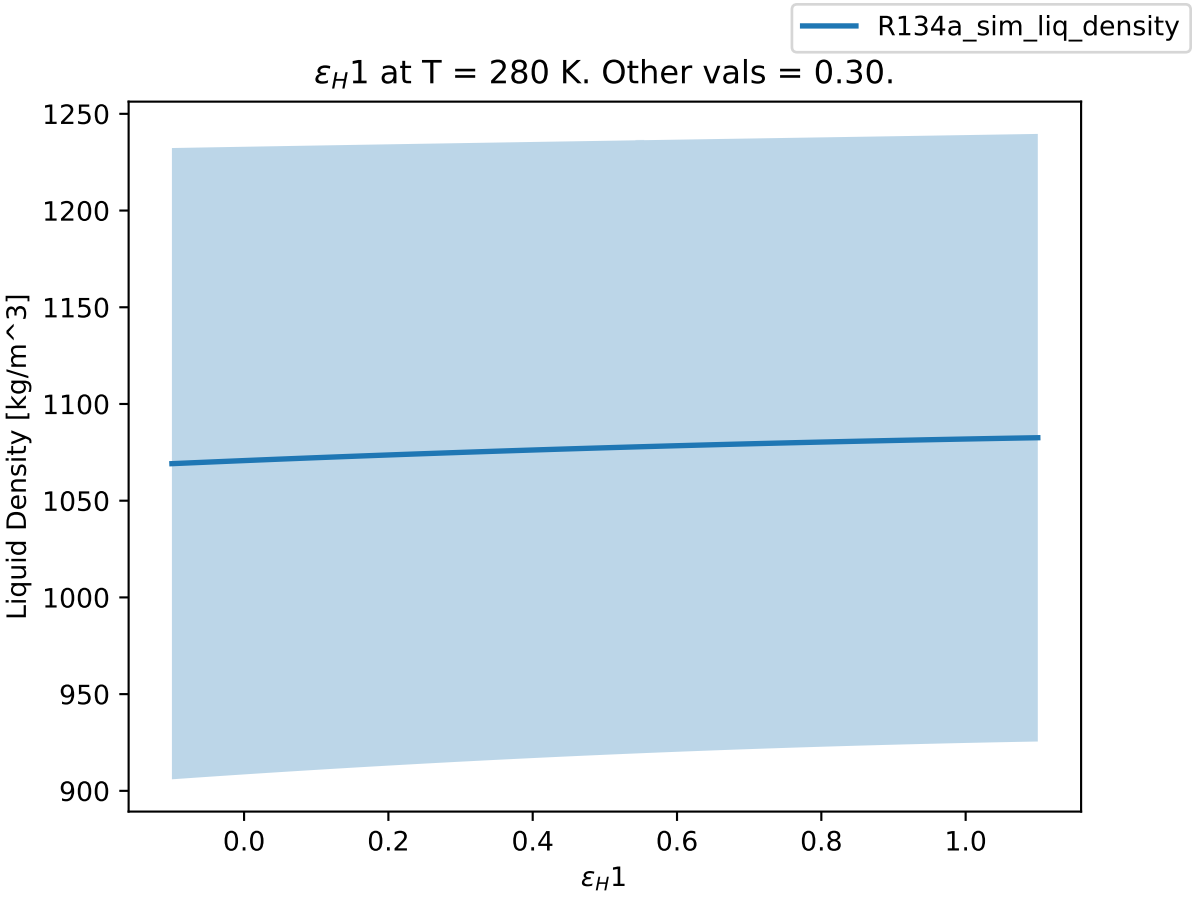

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

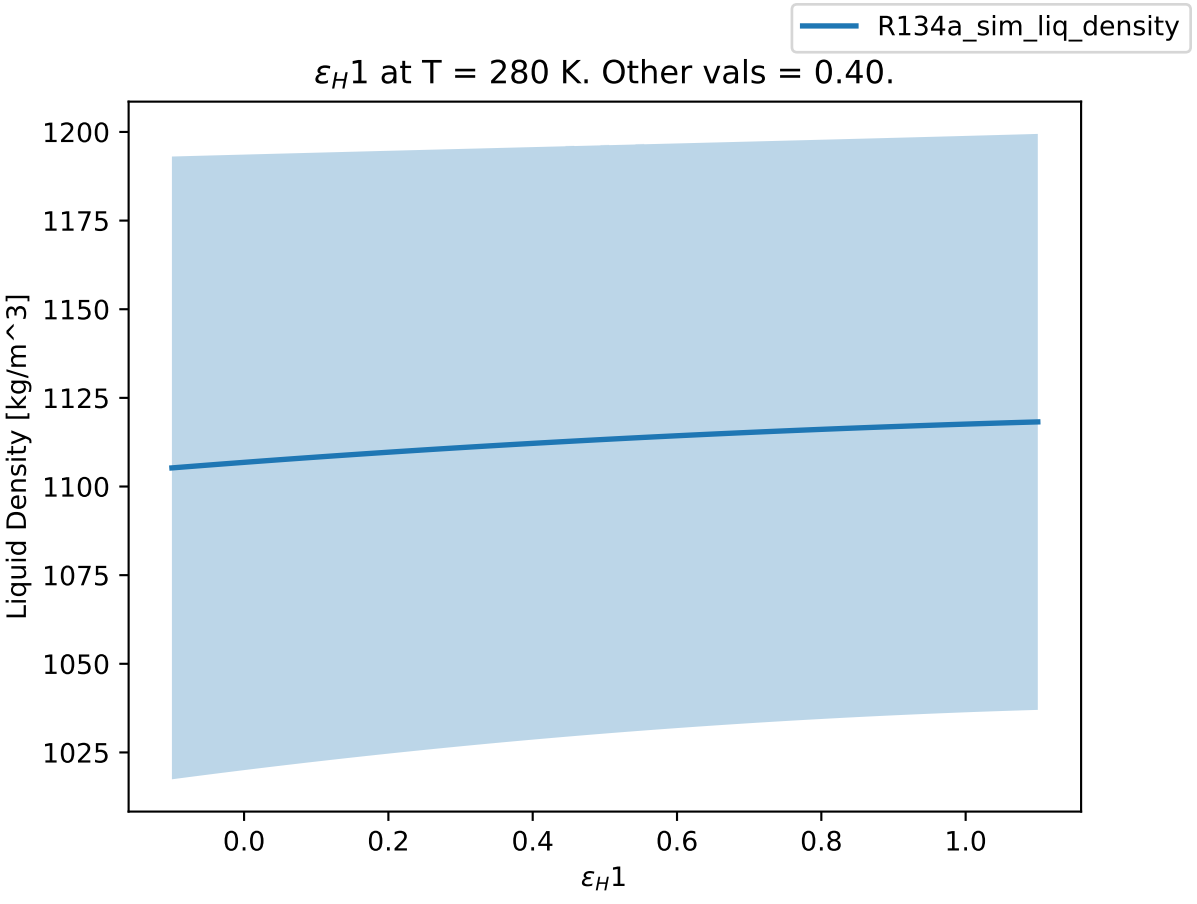

R134a_sim_liq_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

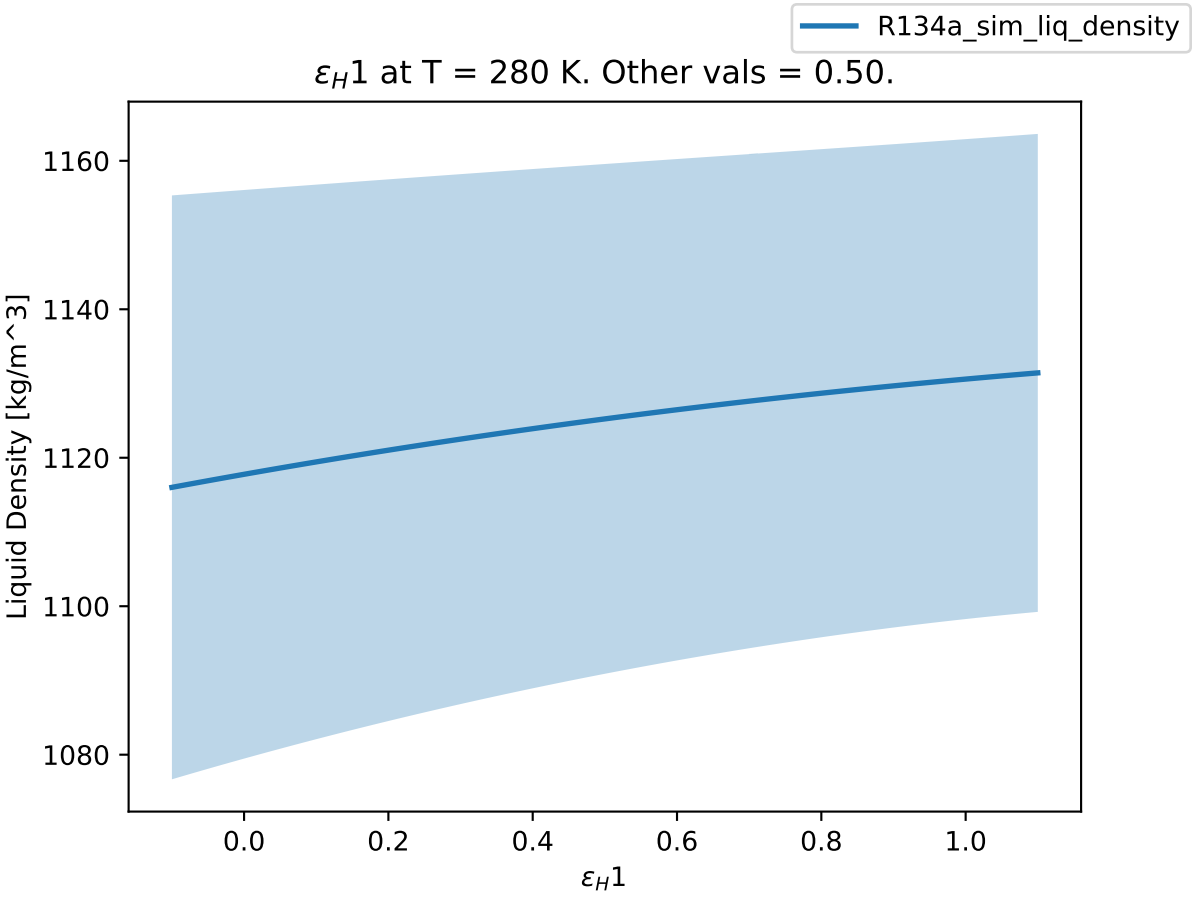

R134a_sim_liq_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

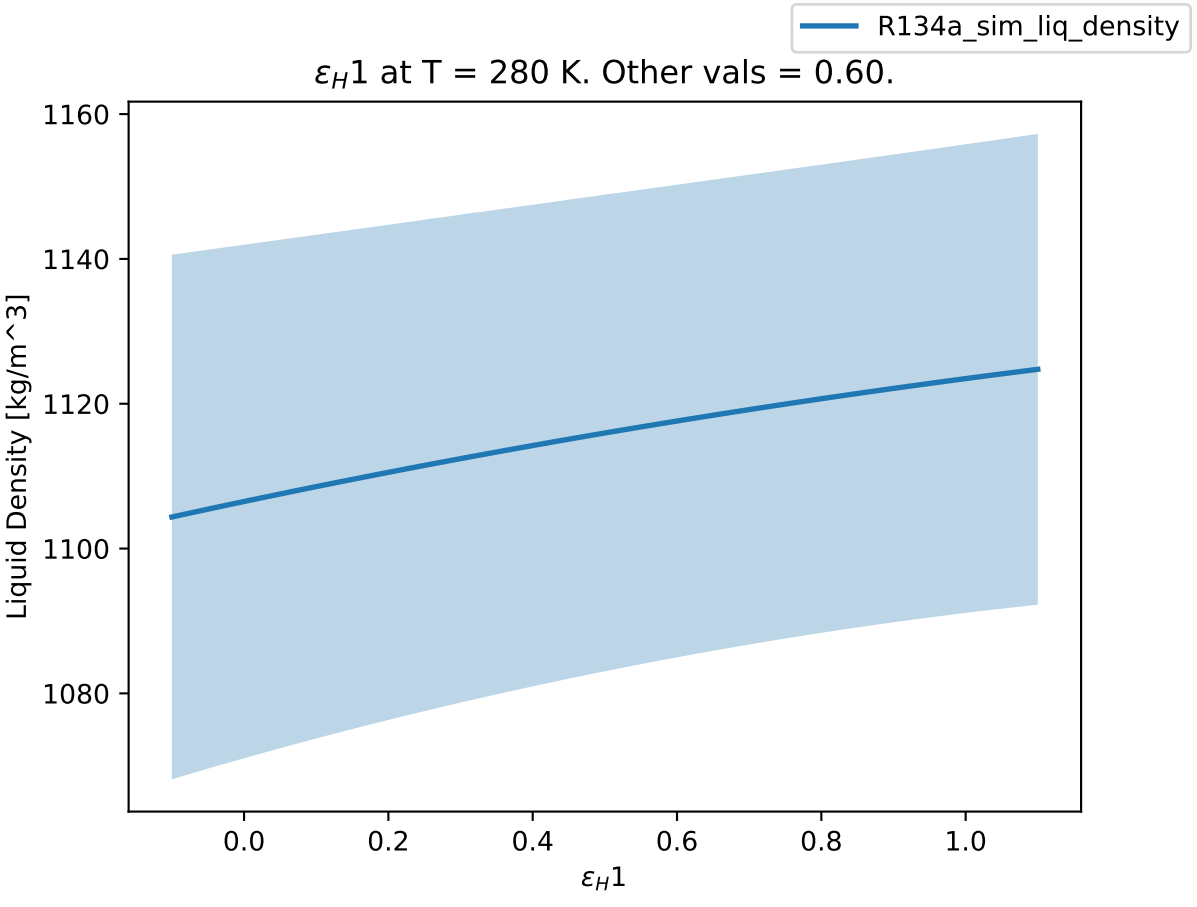

R134a_sim_liq_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

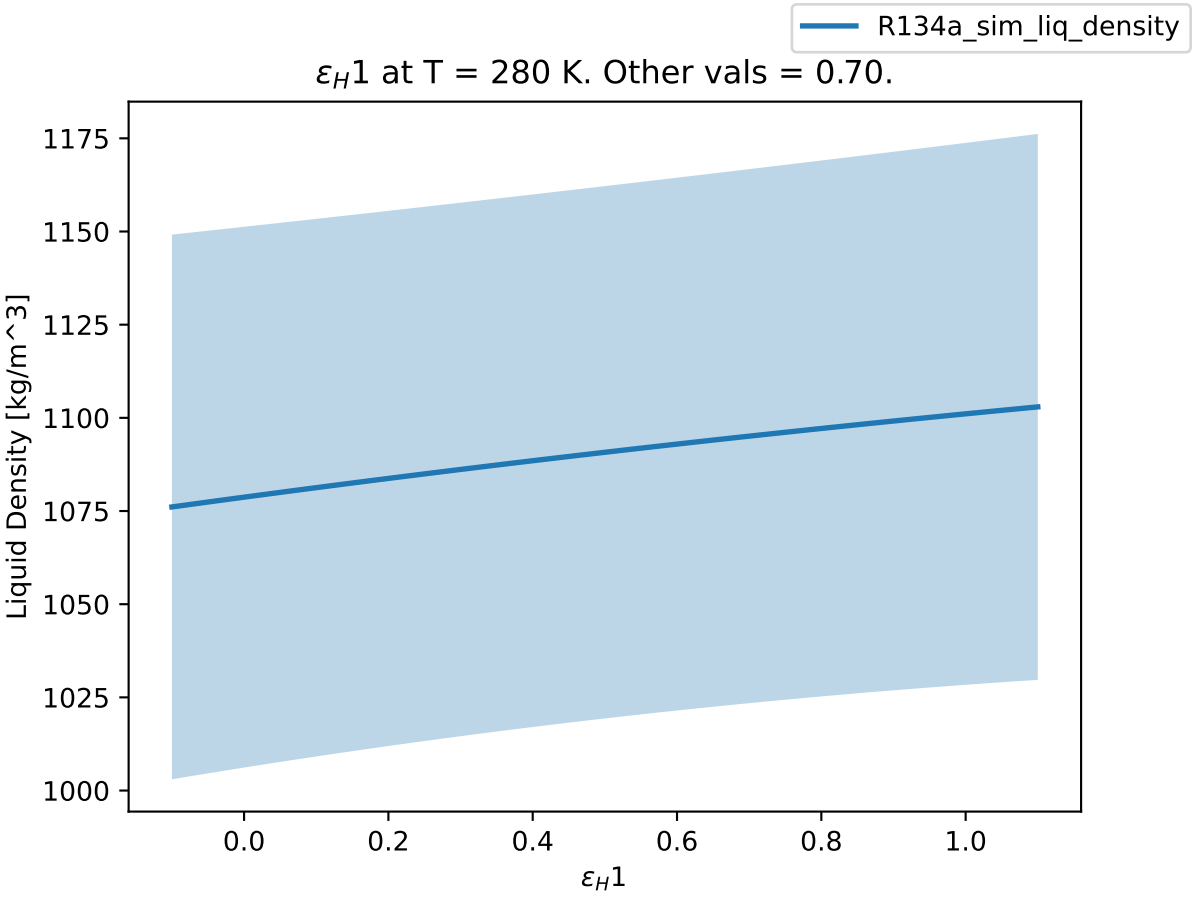

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

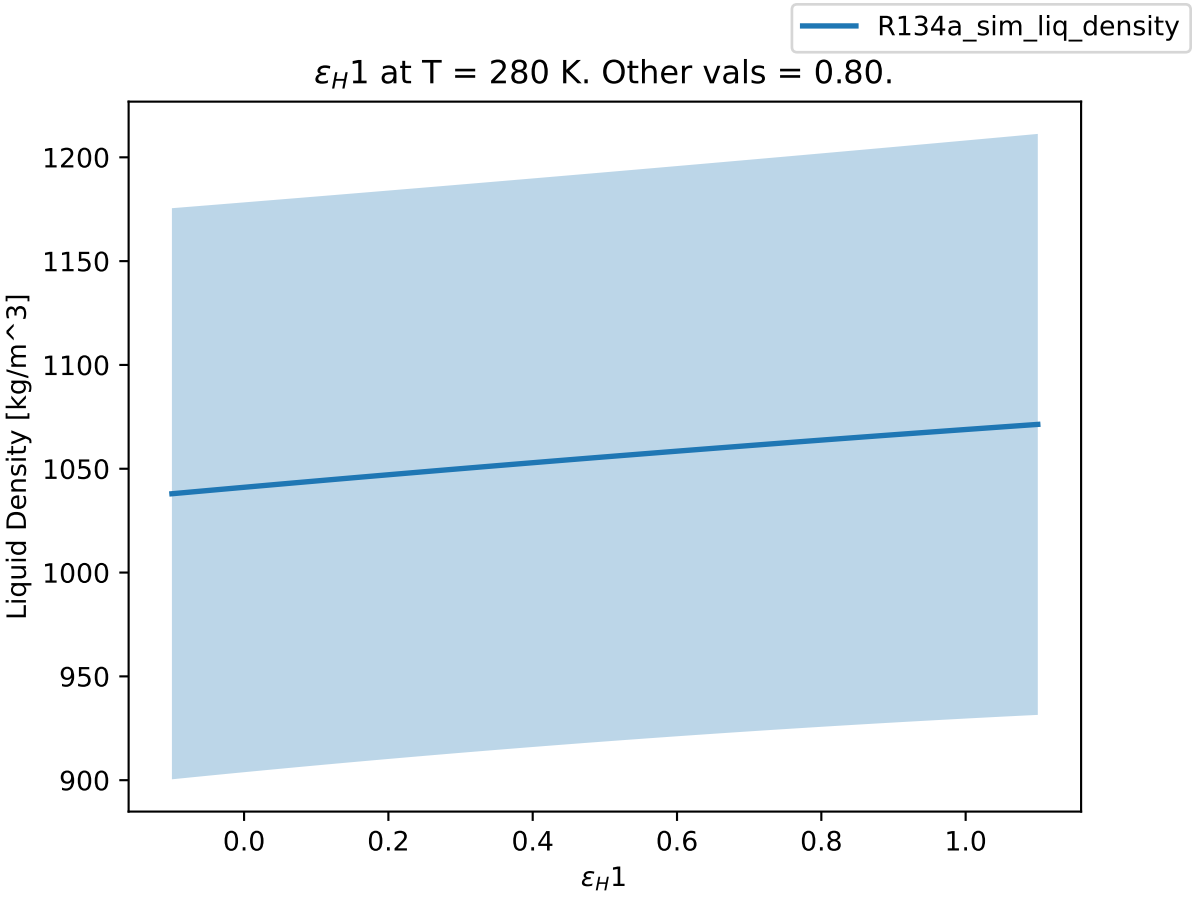

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1250
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

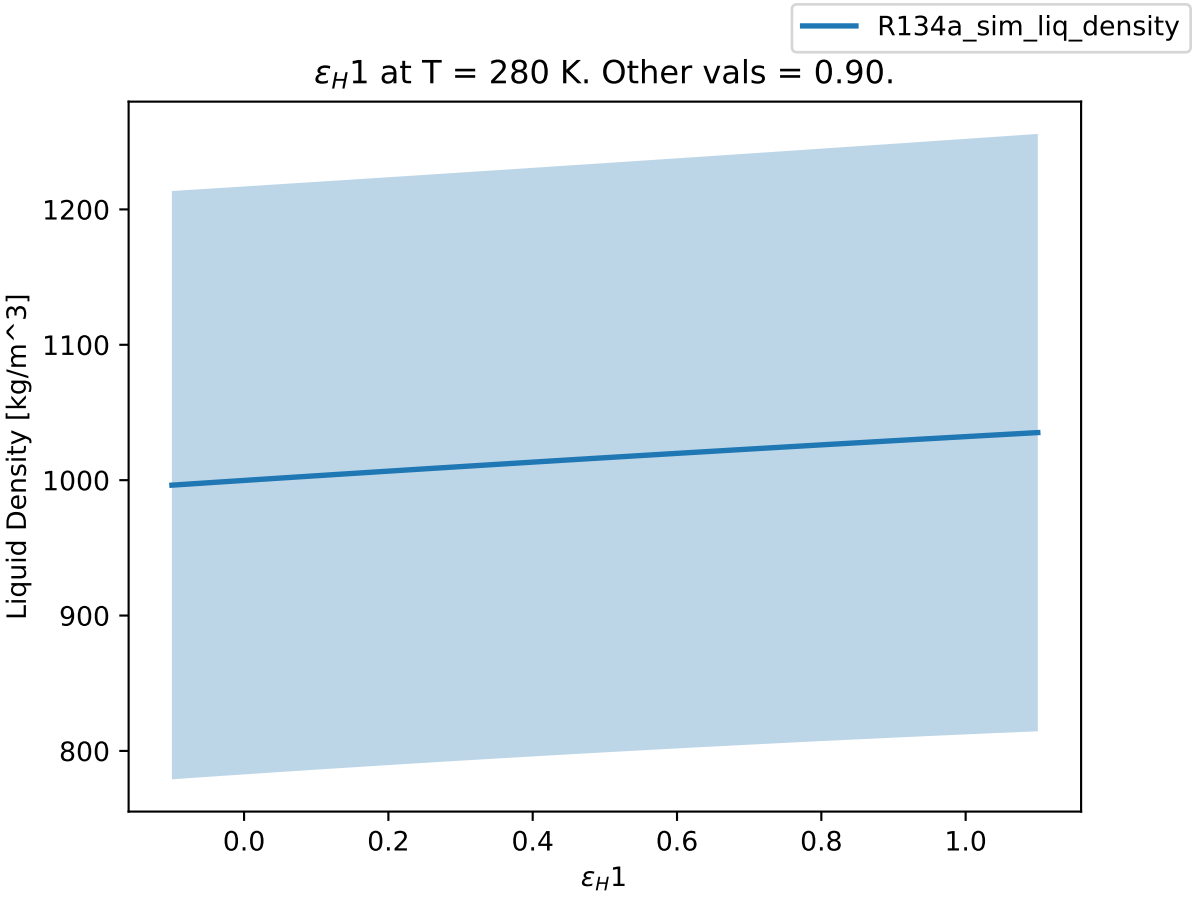

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1200
1175
1150
1125
1100
1075
1050
1025
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

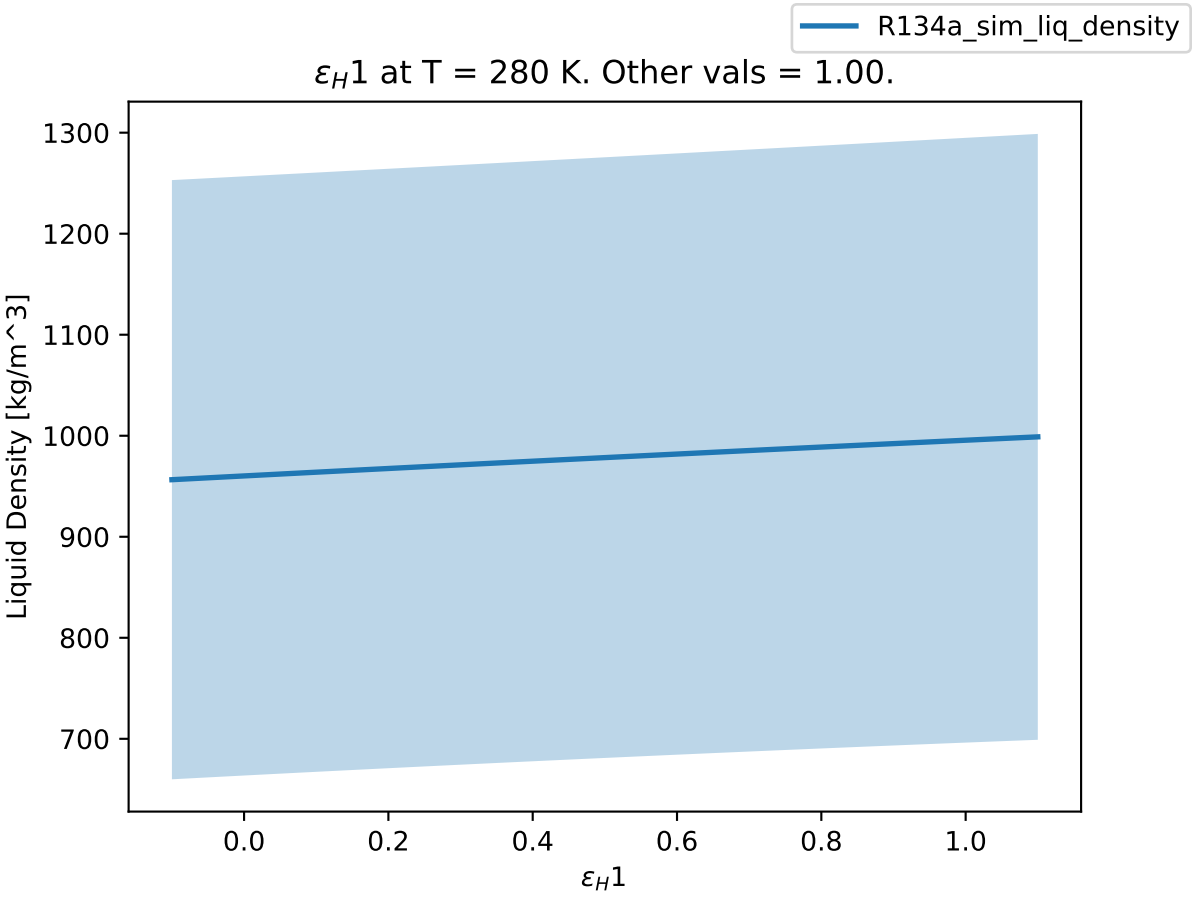

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1160
1140
1120
1100
1080
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

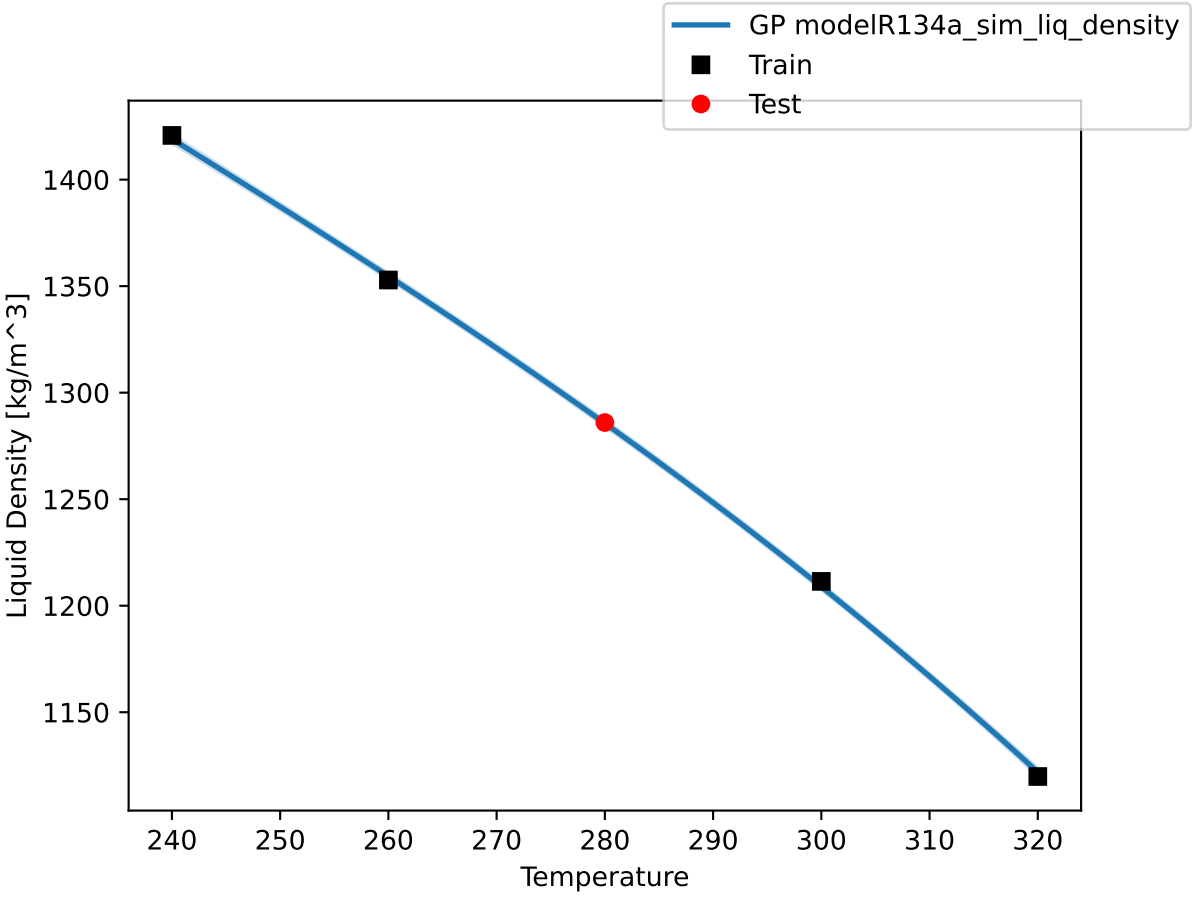

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1160
1140
1120
1100
1080
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

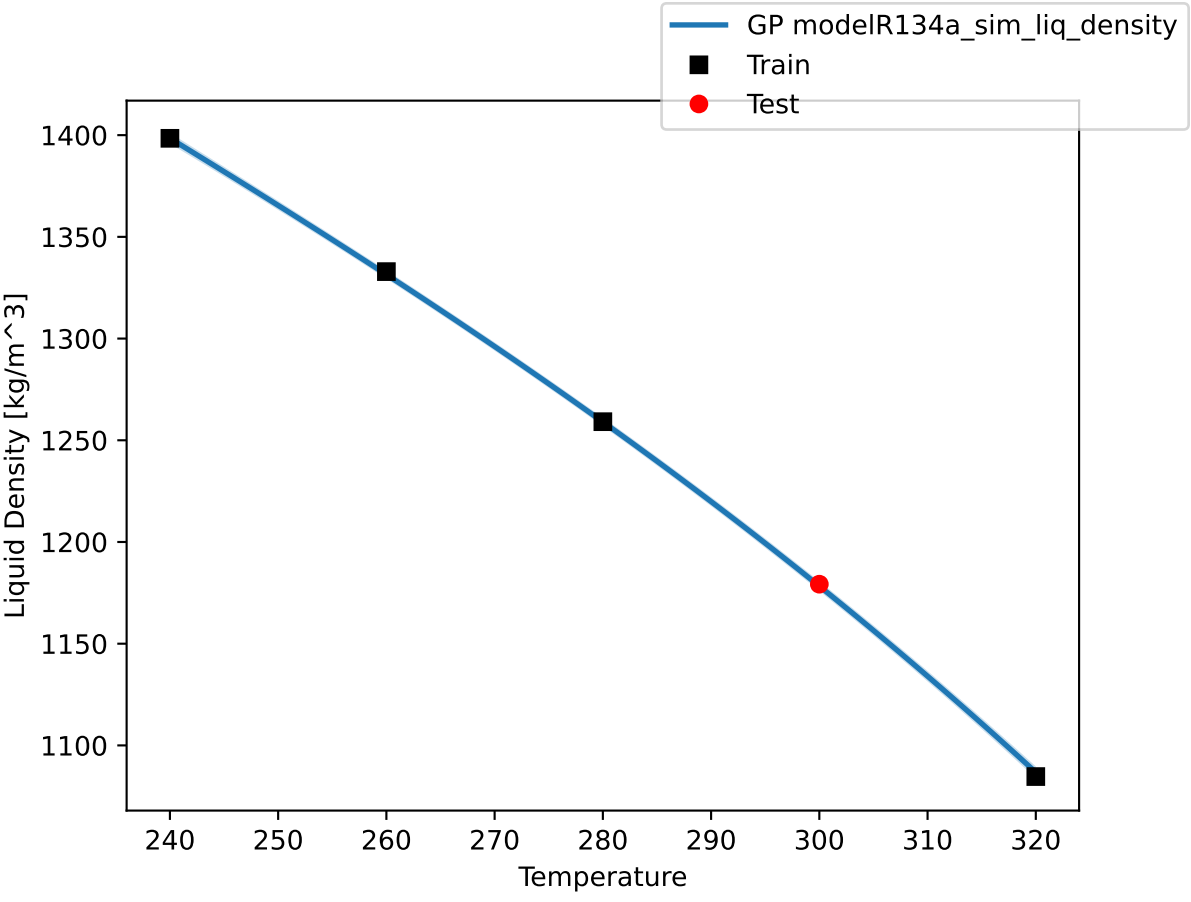

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1175
1150
1125
1100
1075
1050
1025
1000
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

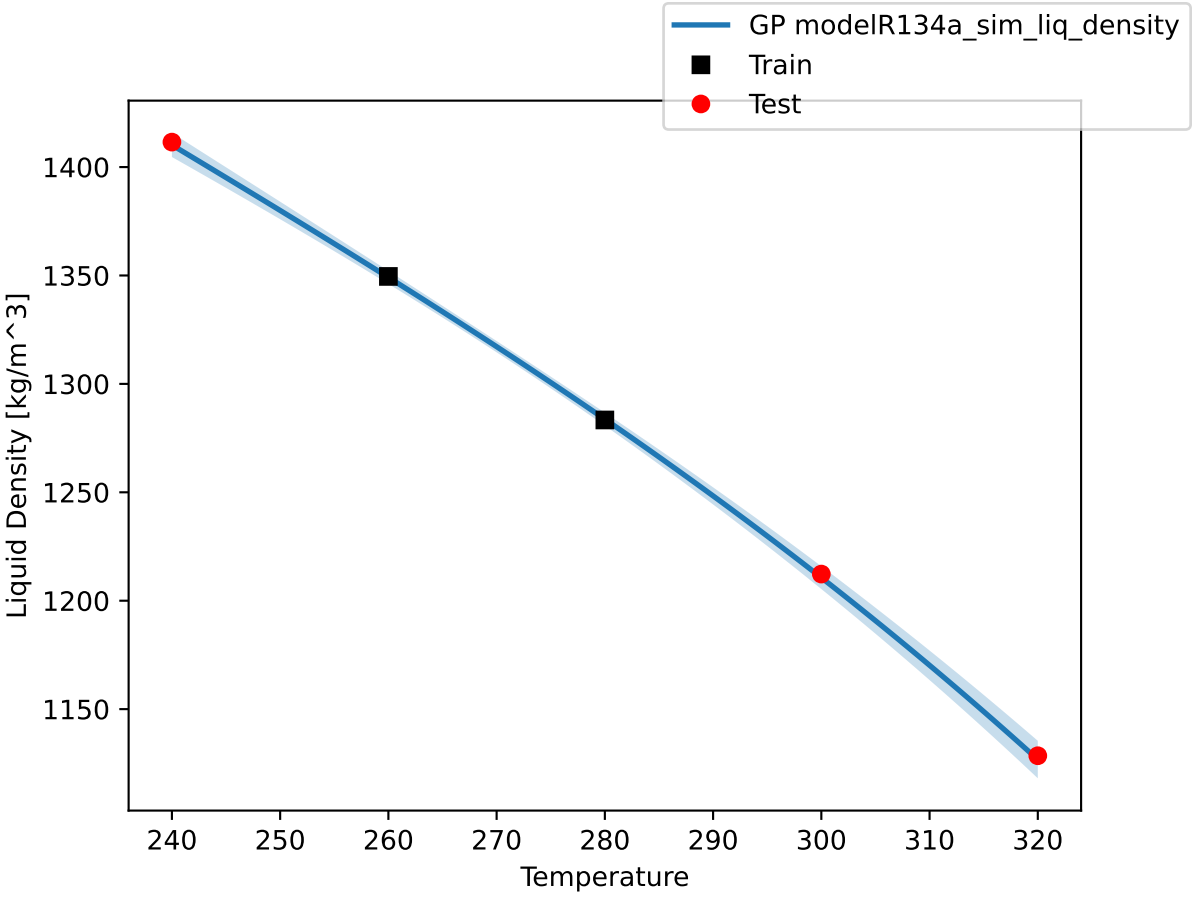

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1150
1100
1050
1000
950
900
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

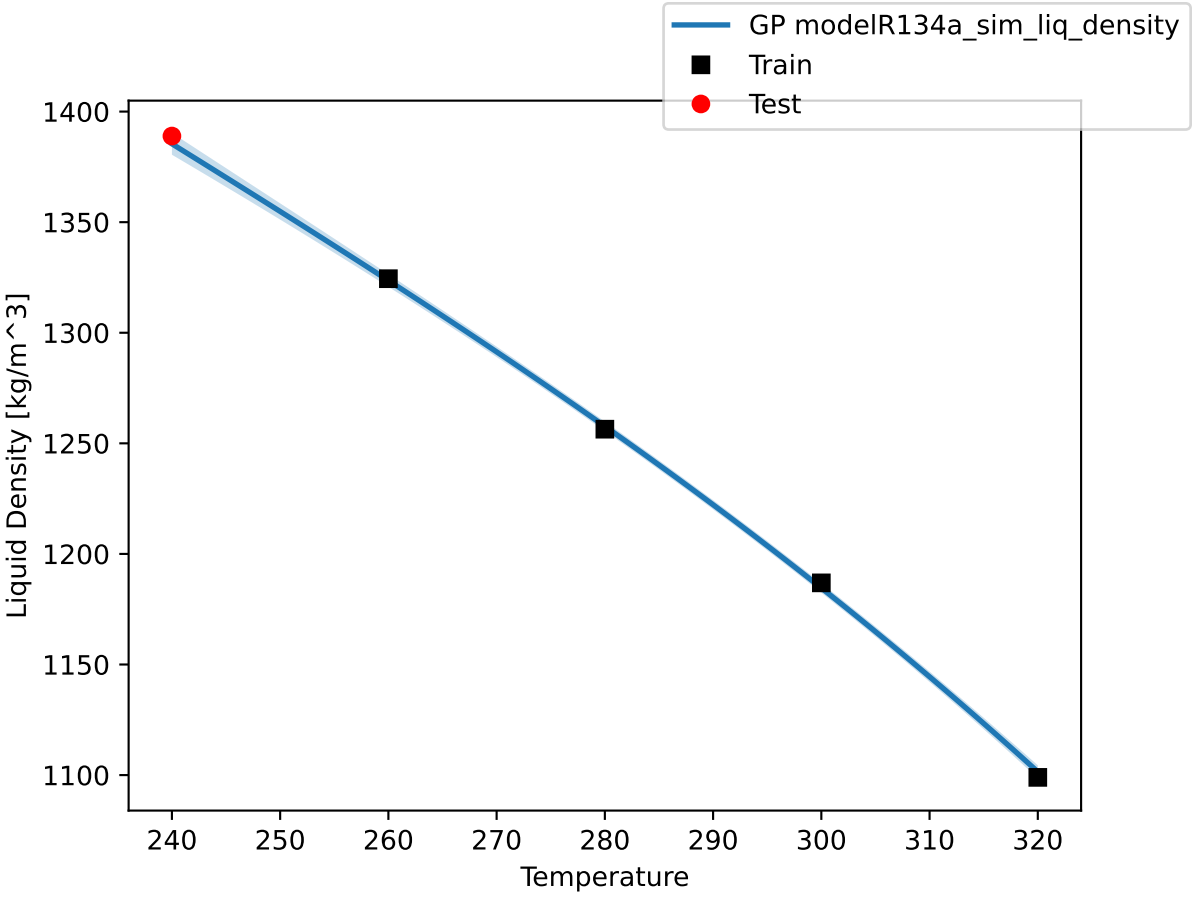

R134a_sim_liq_density
ε_H1 at T = 280 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

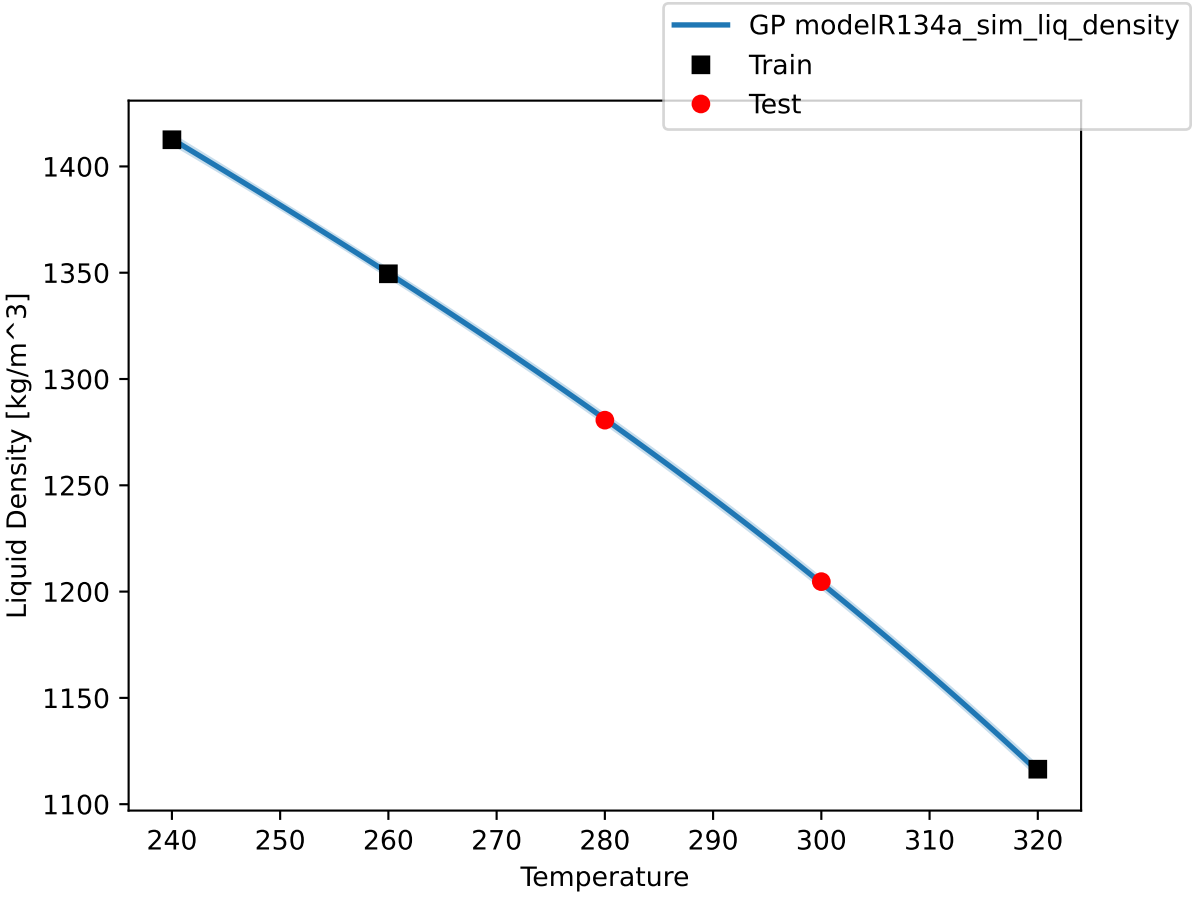

R134a_sim_liq_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

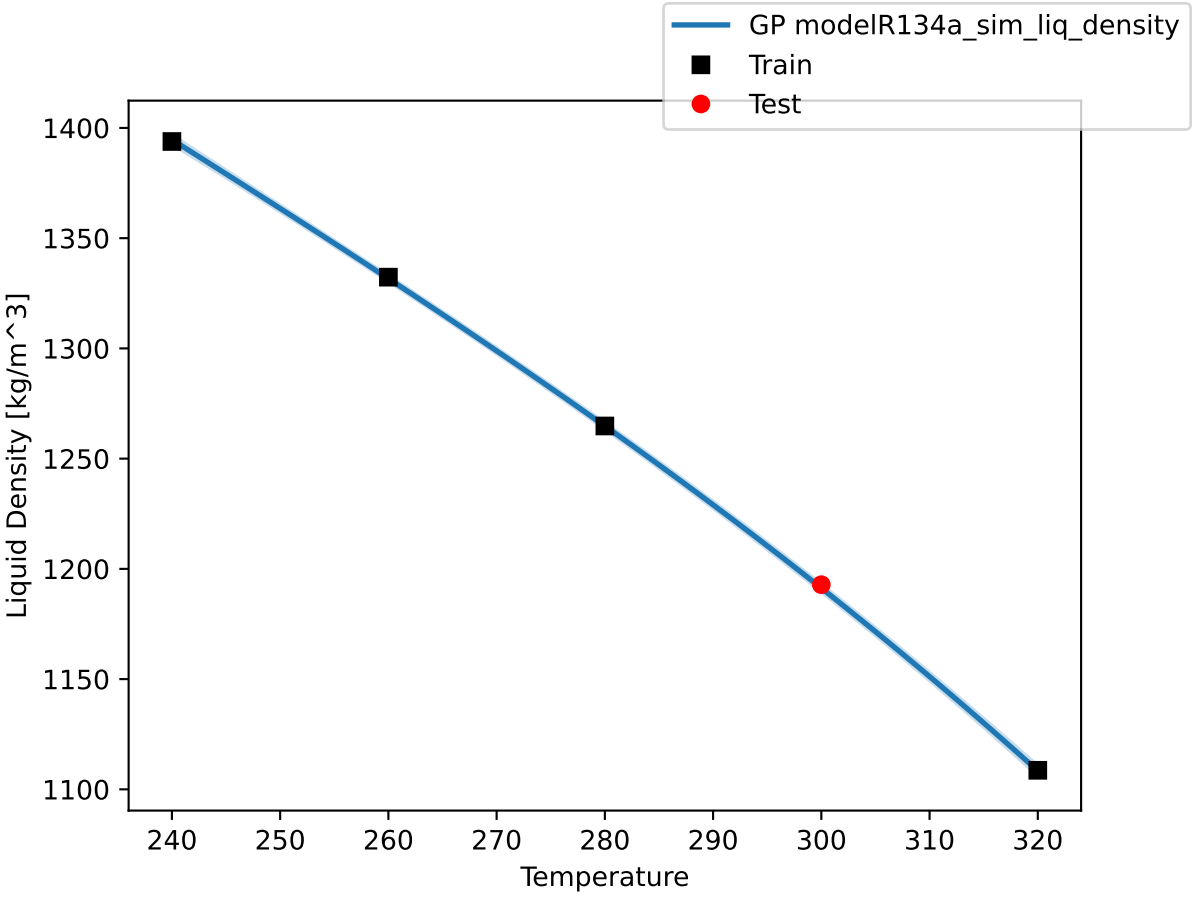

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature

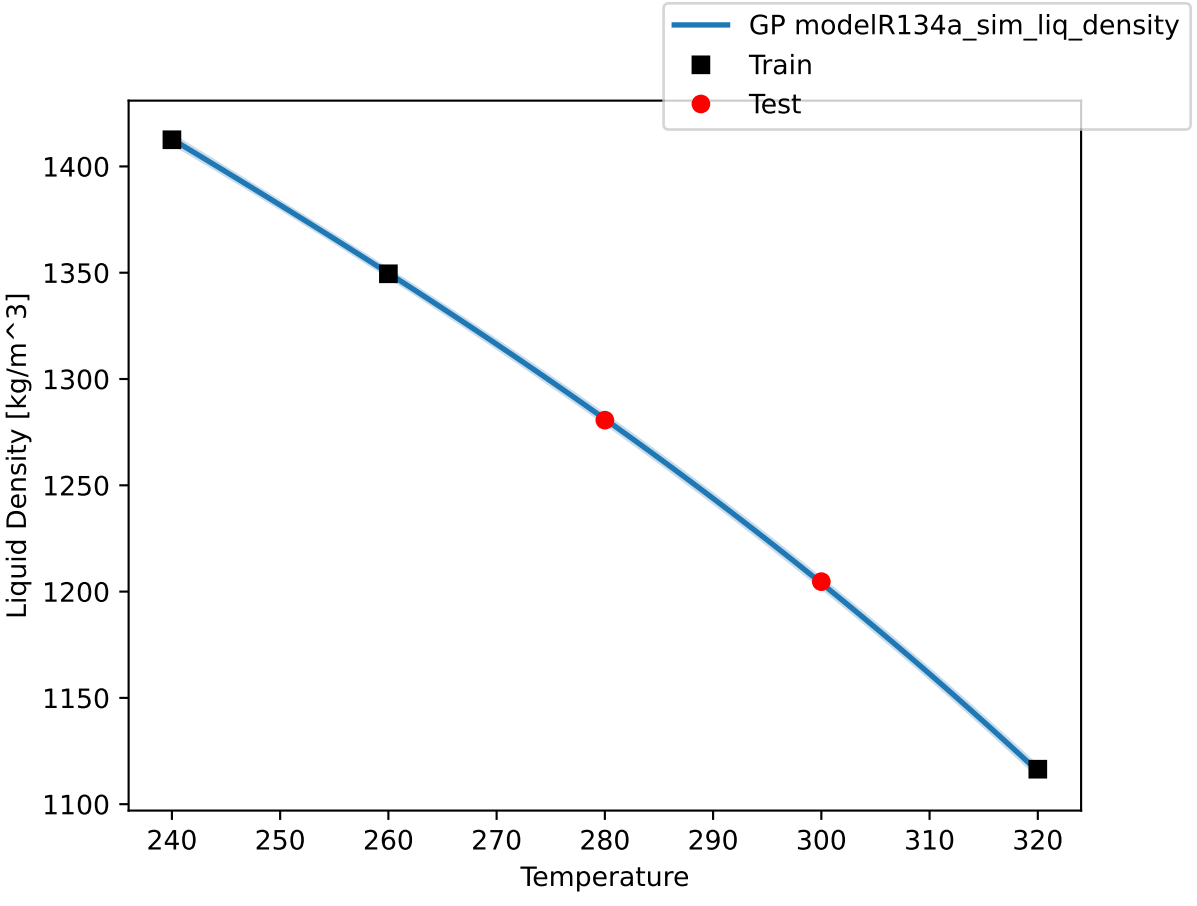

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature

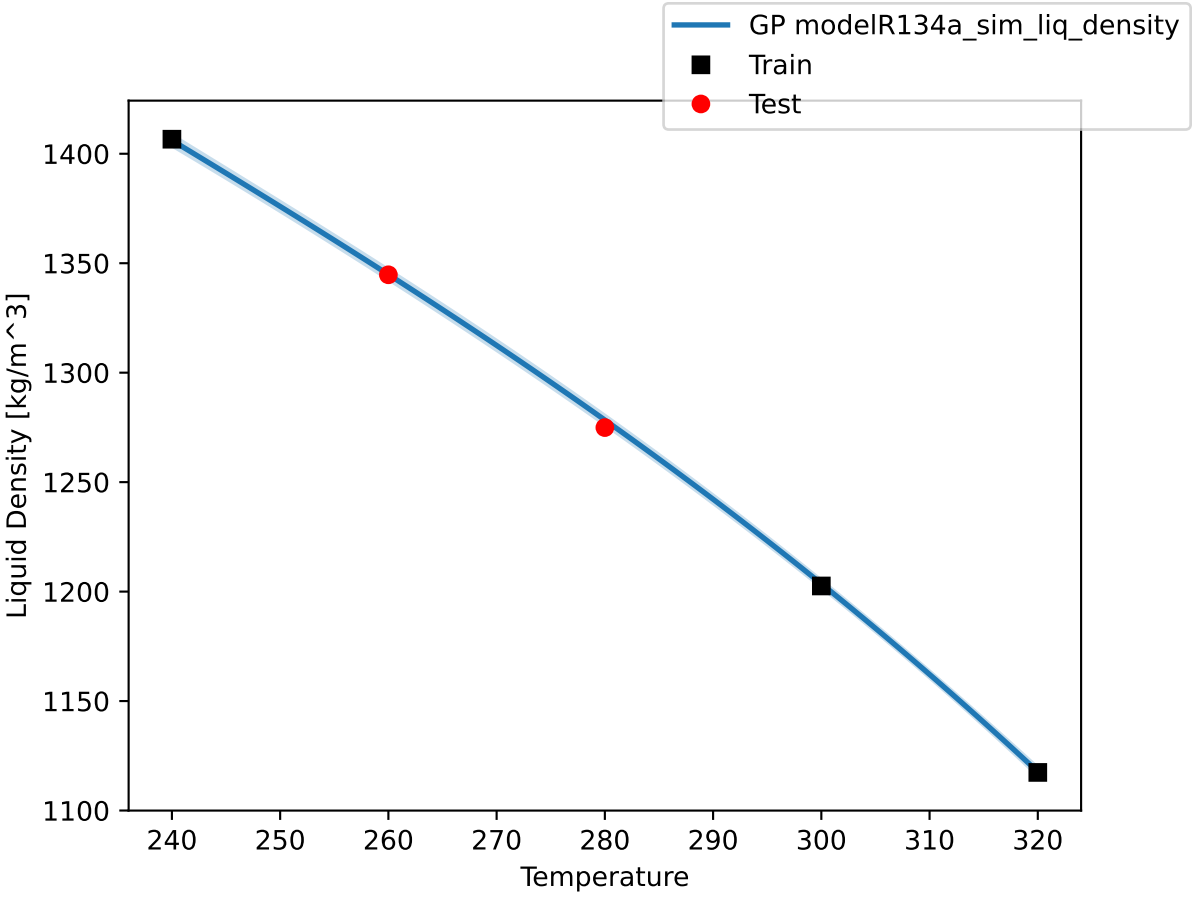

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature

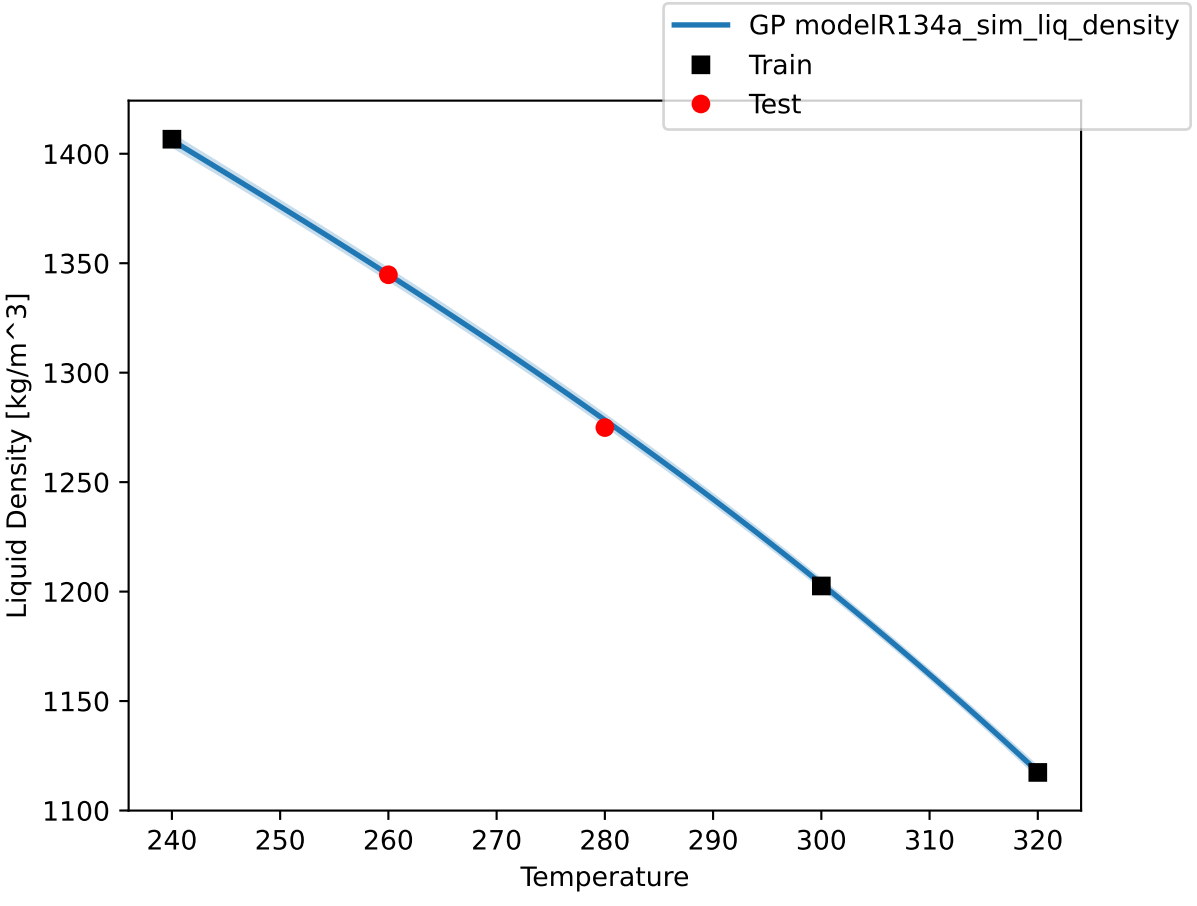

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature

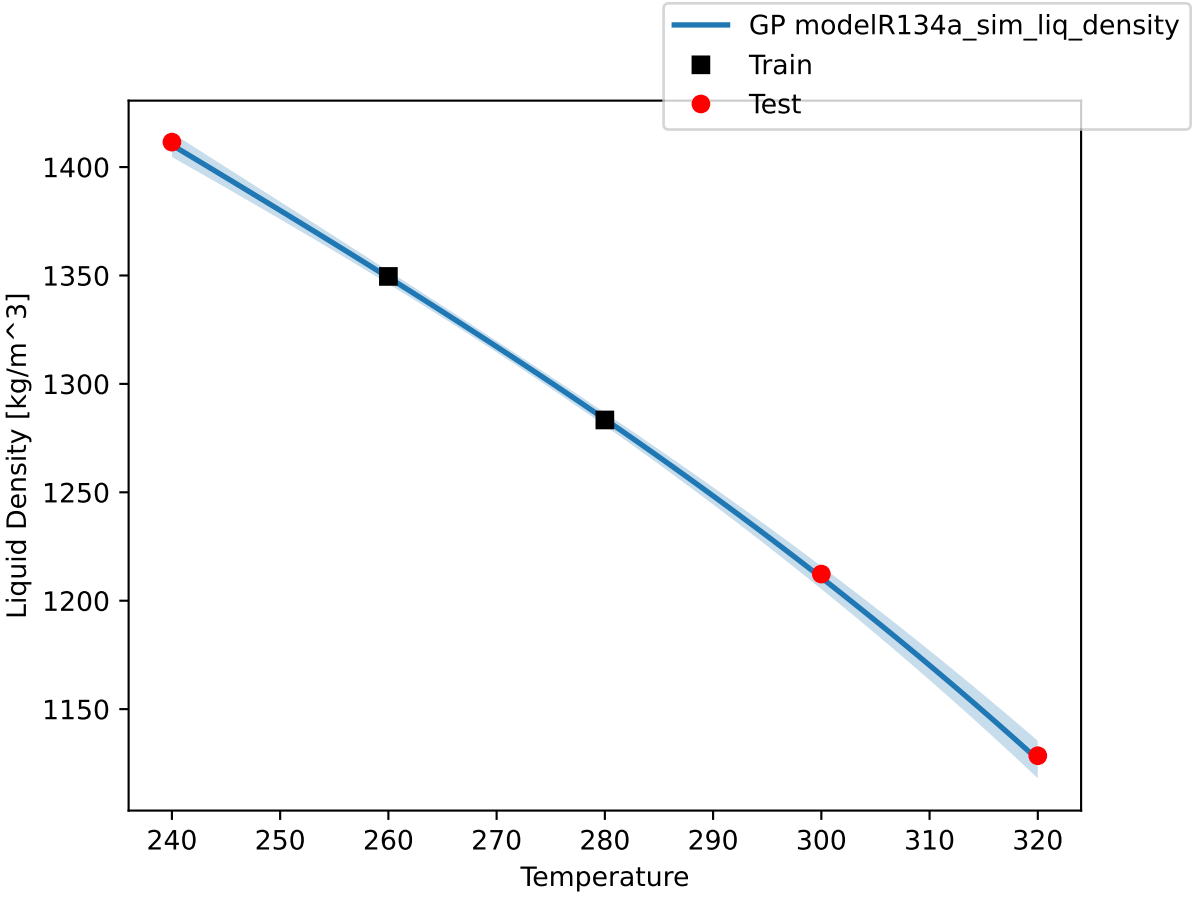

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature

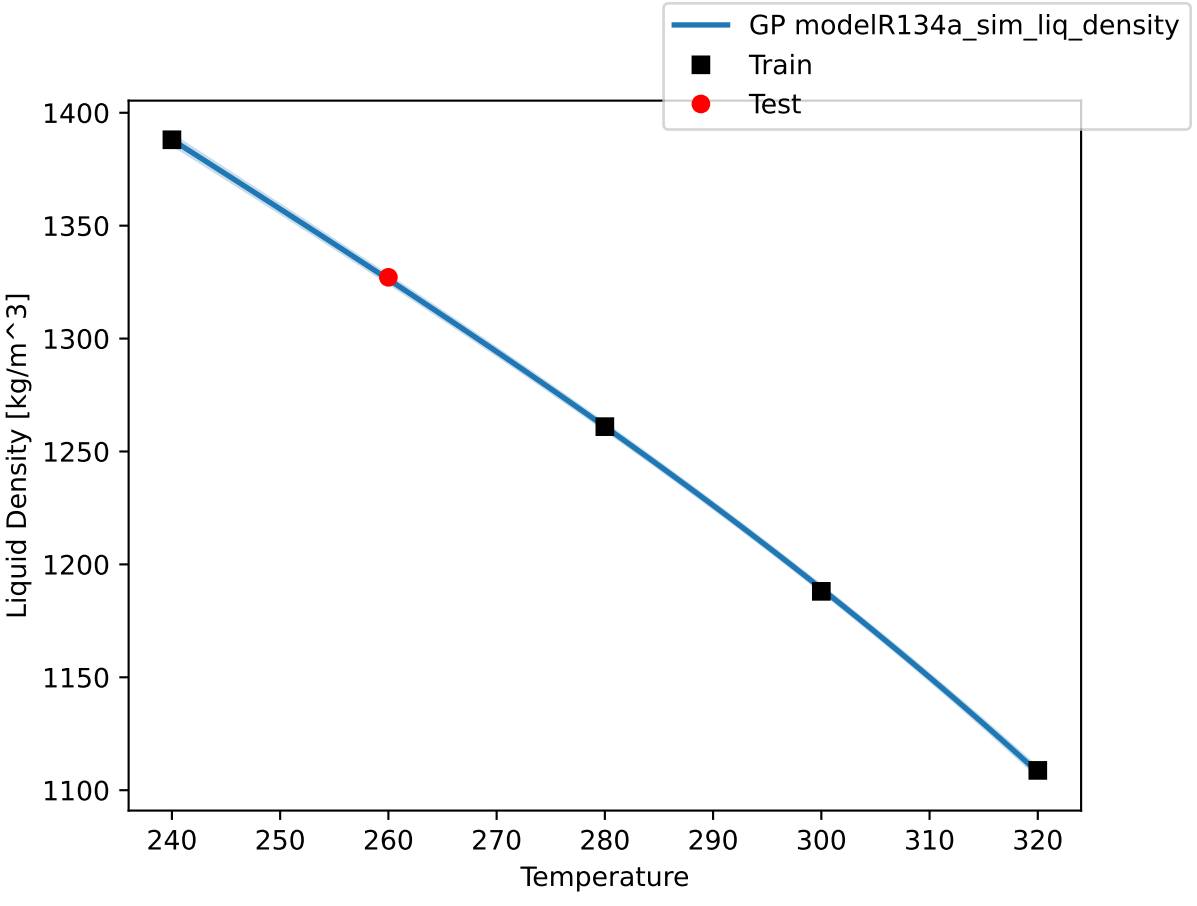

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature

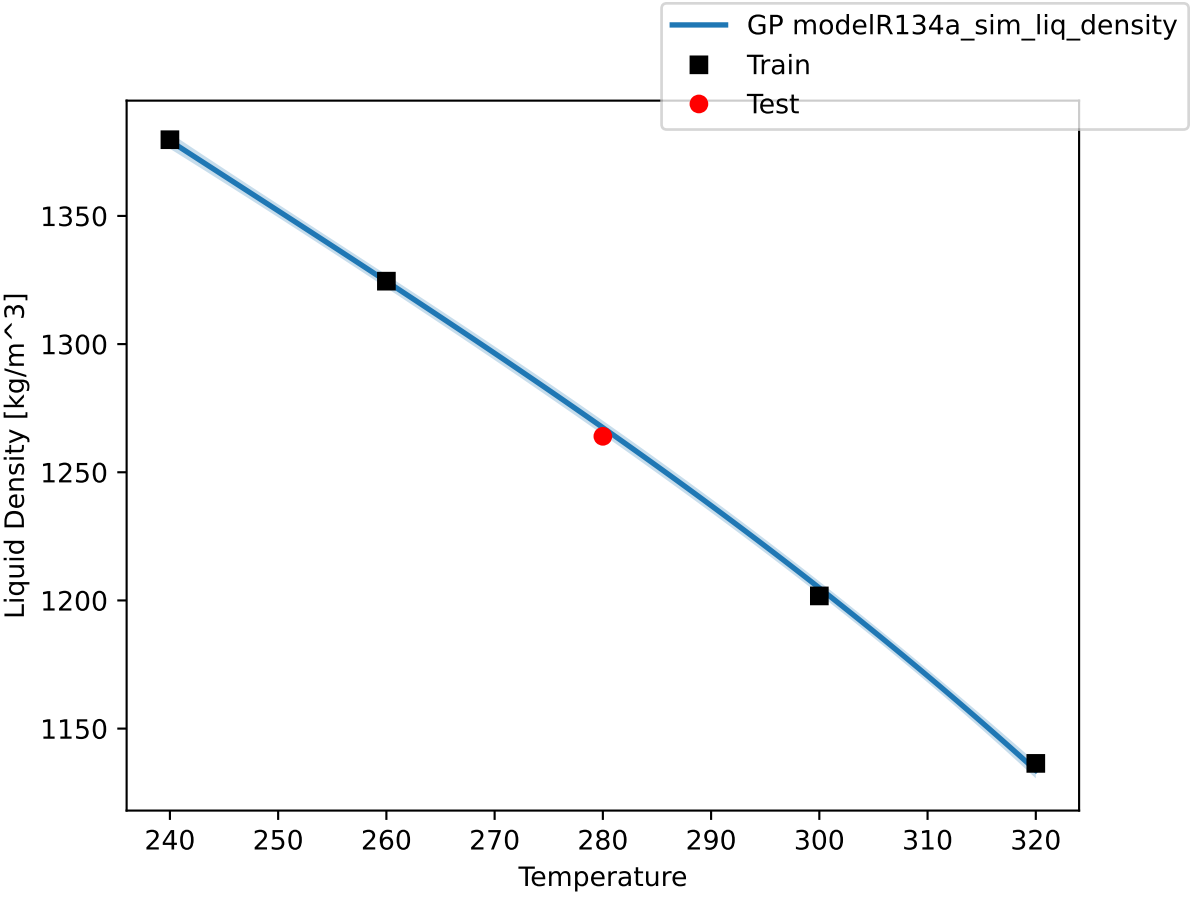

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1350
1300
1250
1200
1150
240
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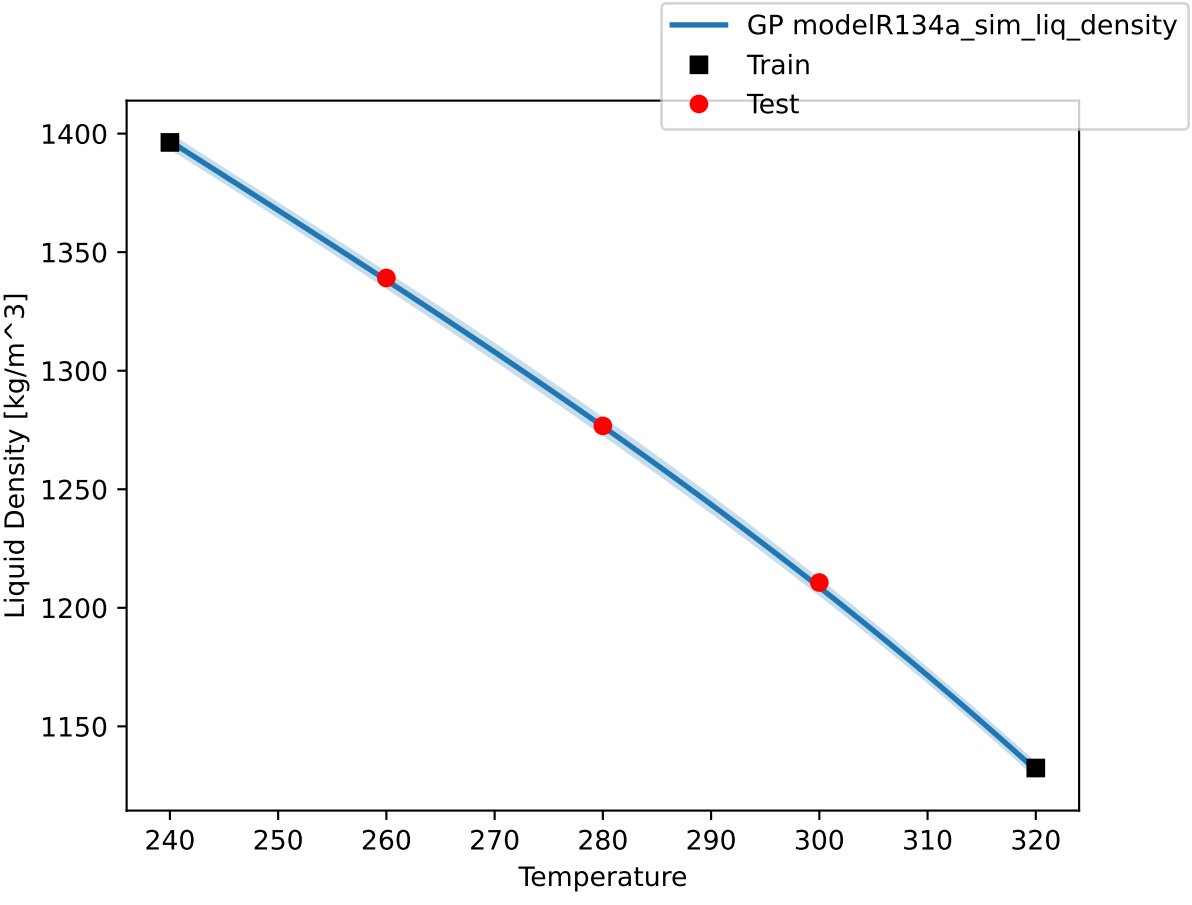
Temperature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Liquid Density [kg/m^3]
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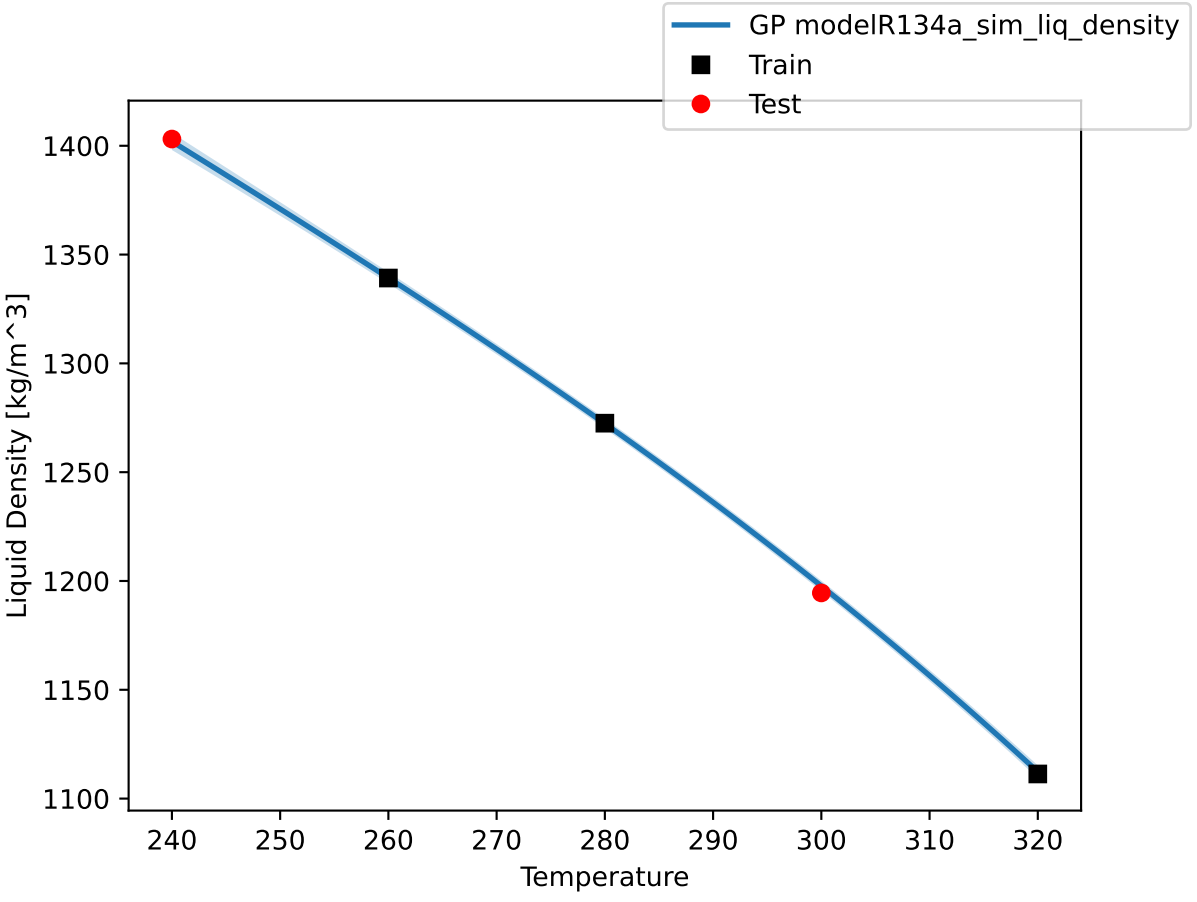
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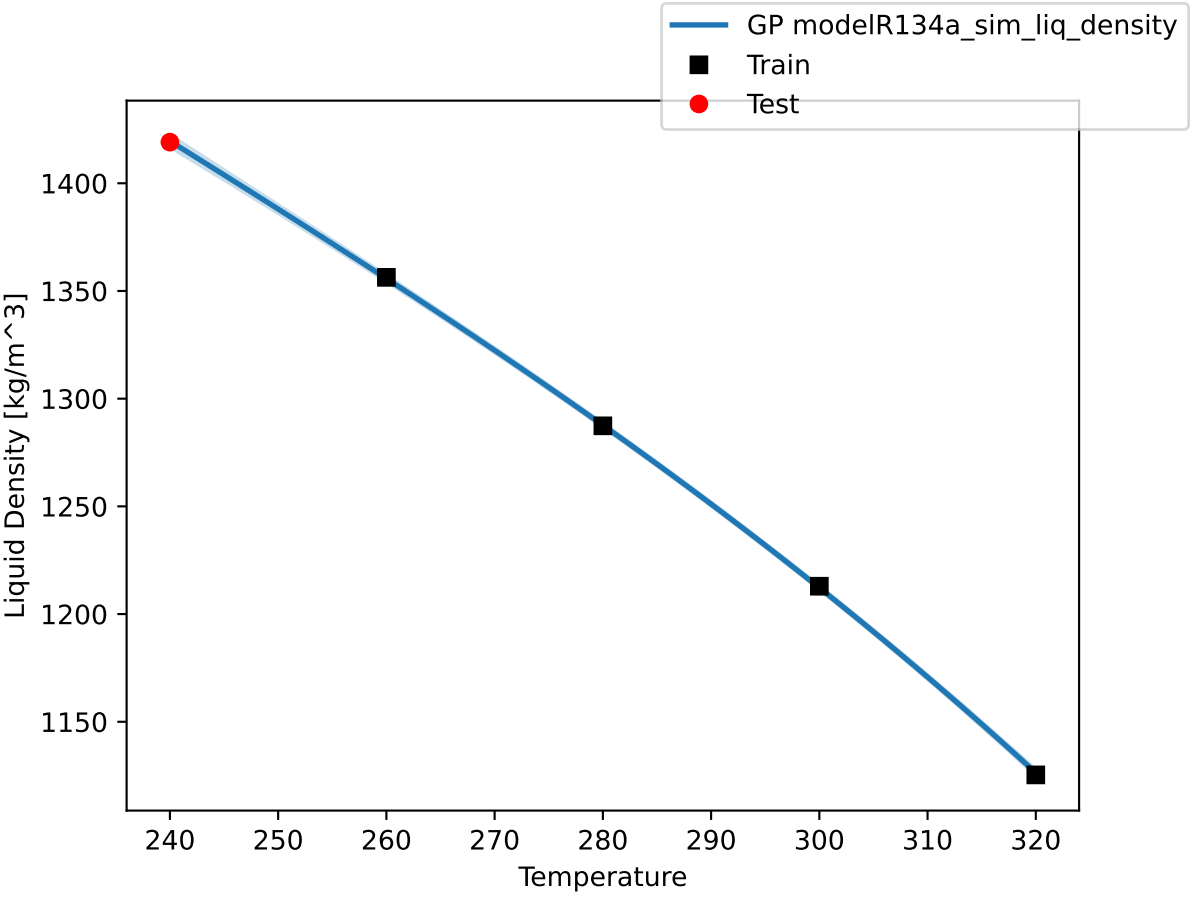
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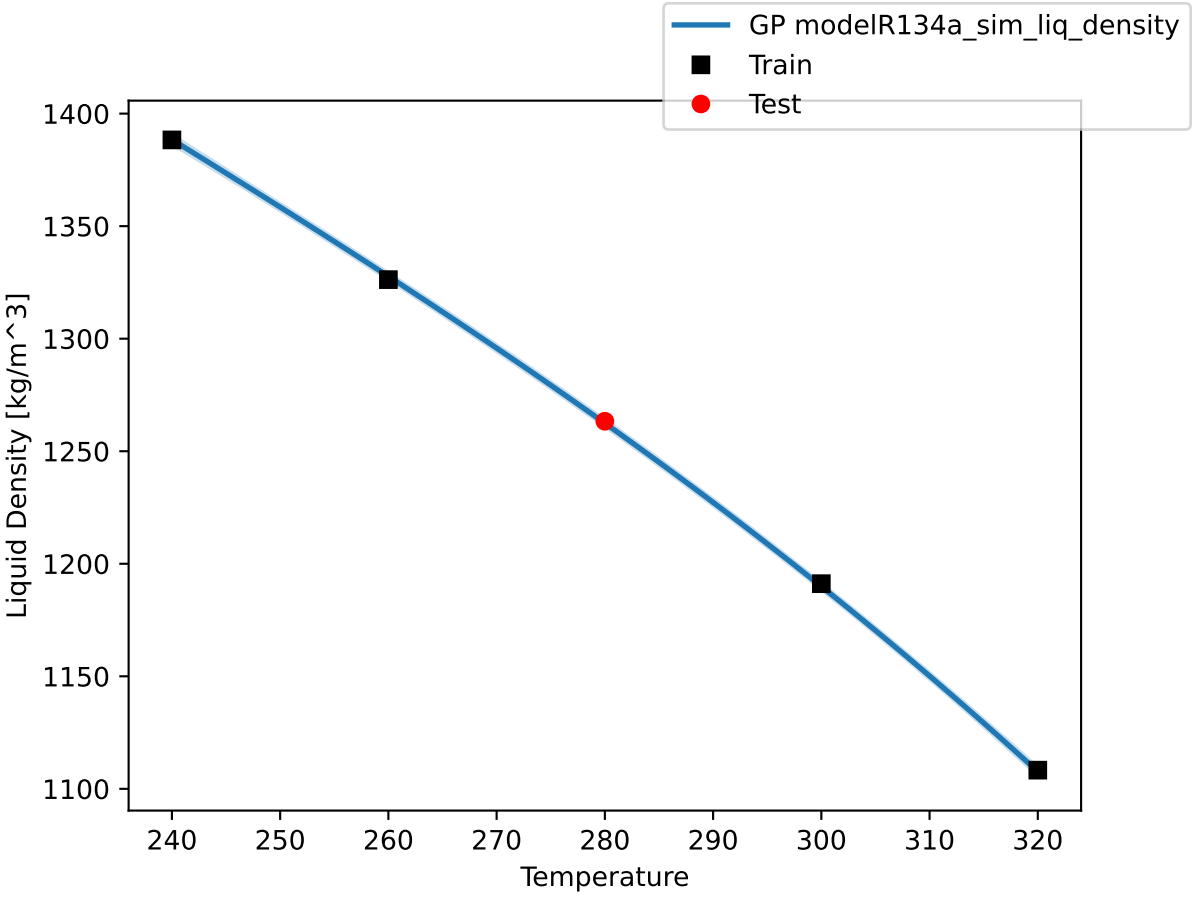
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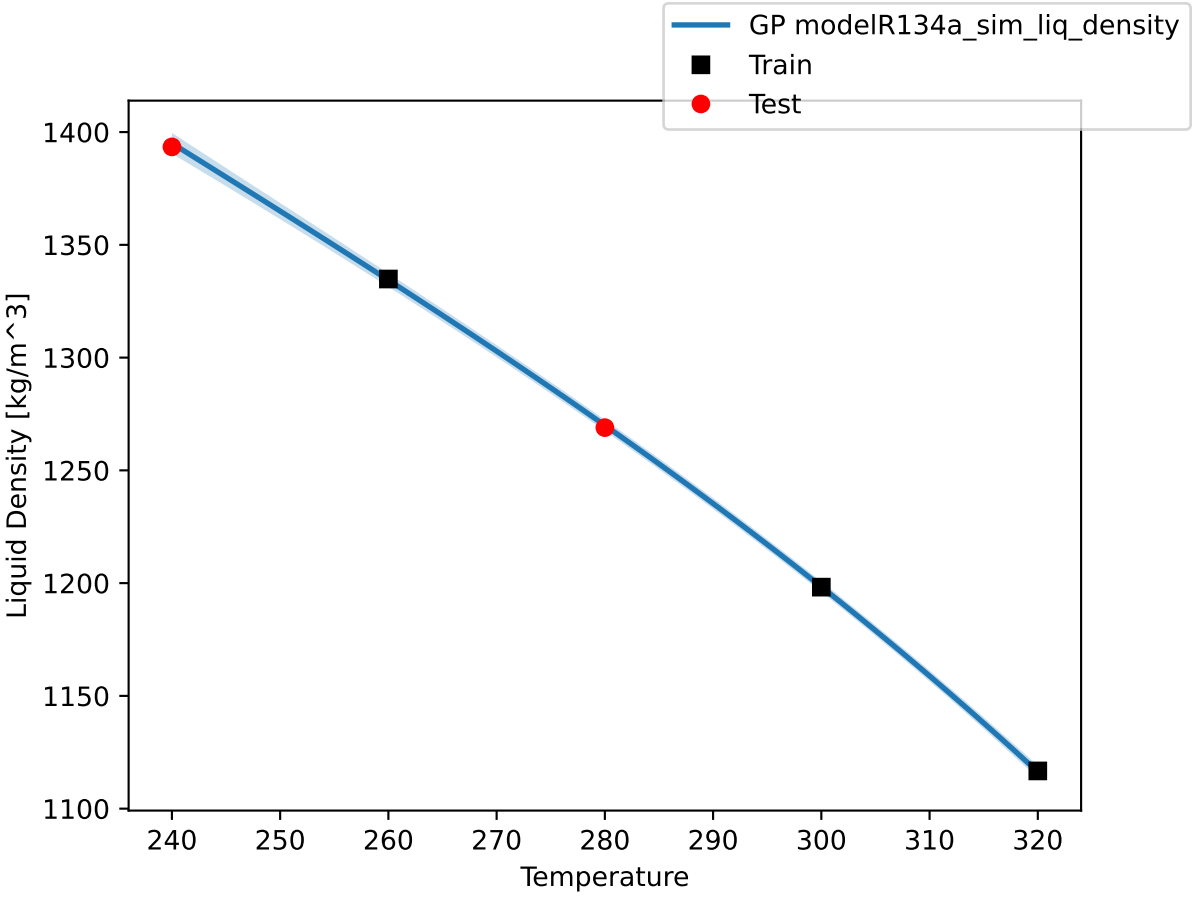
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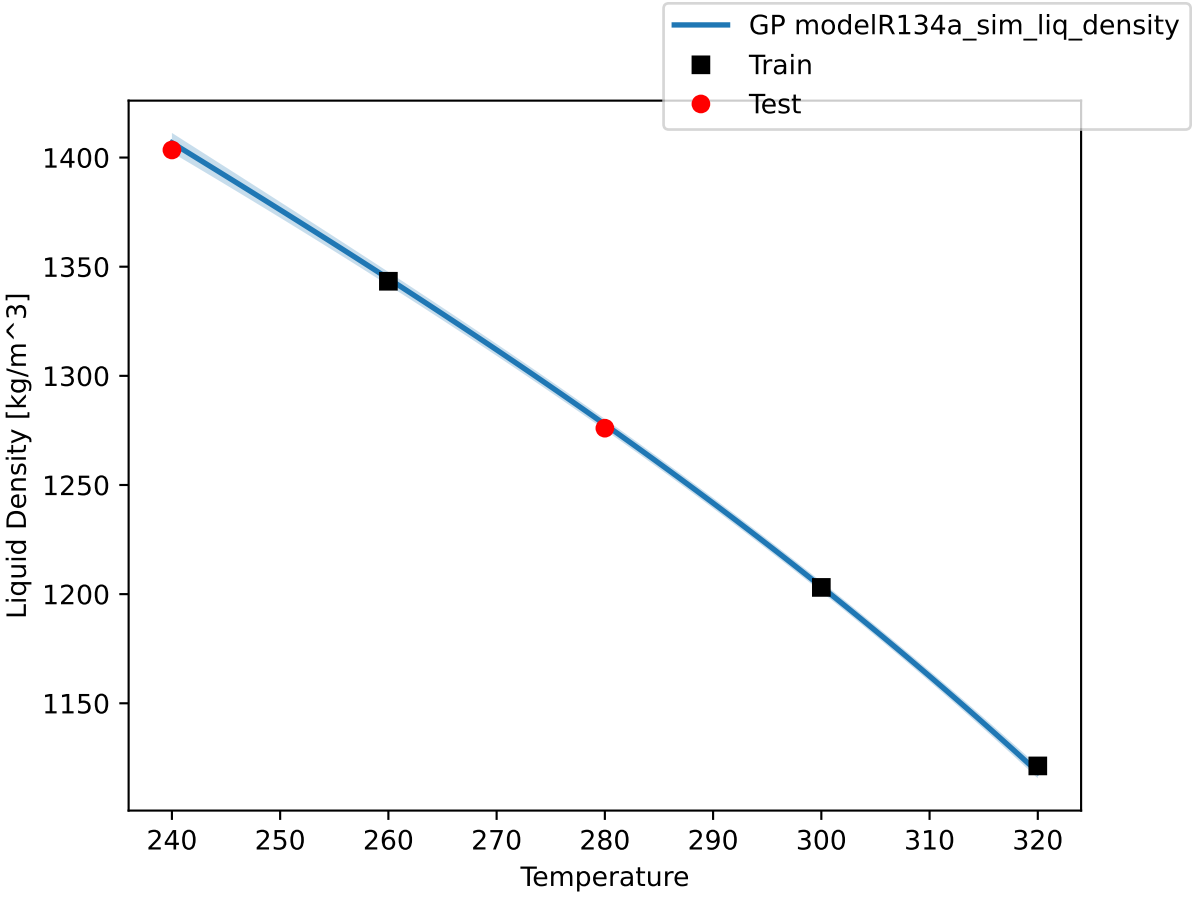
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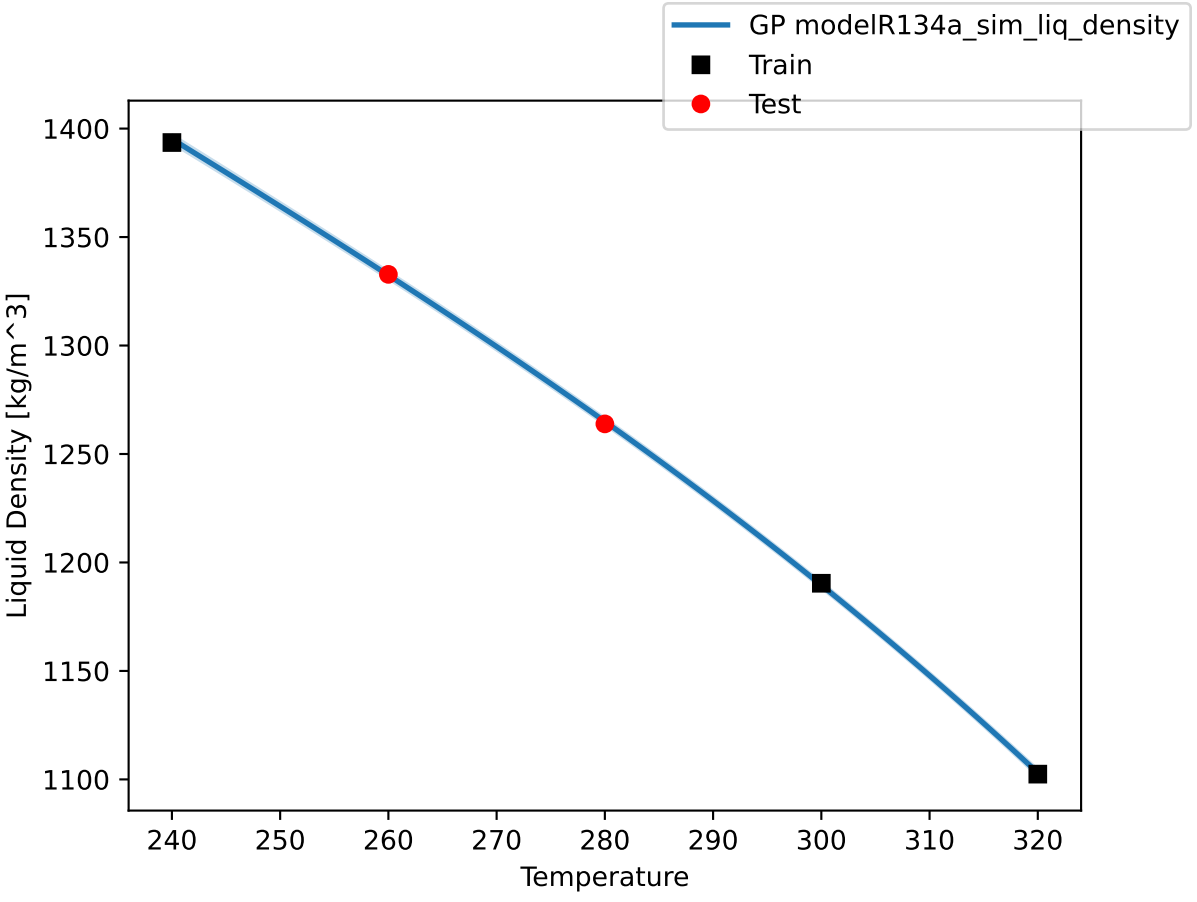
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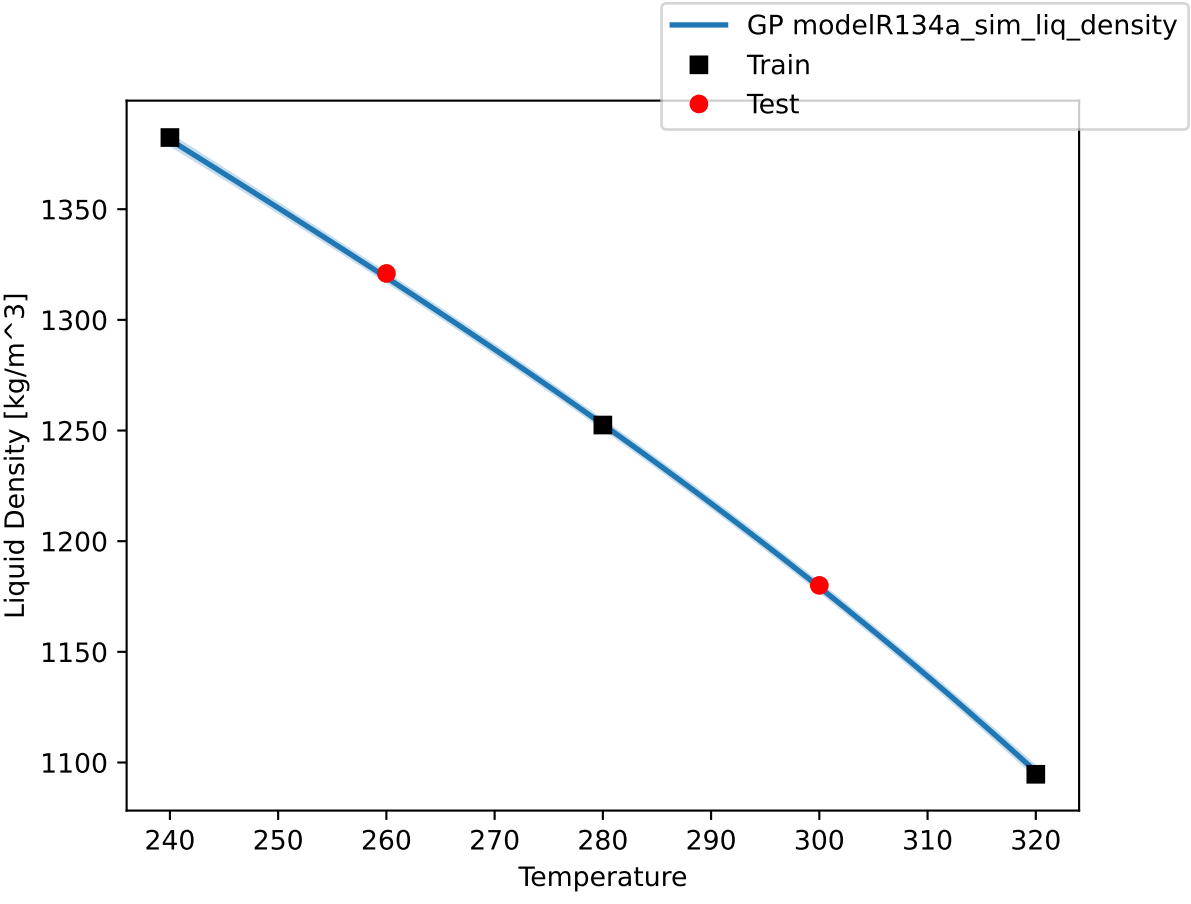
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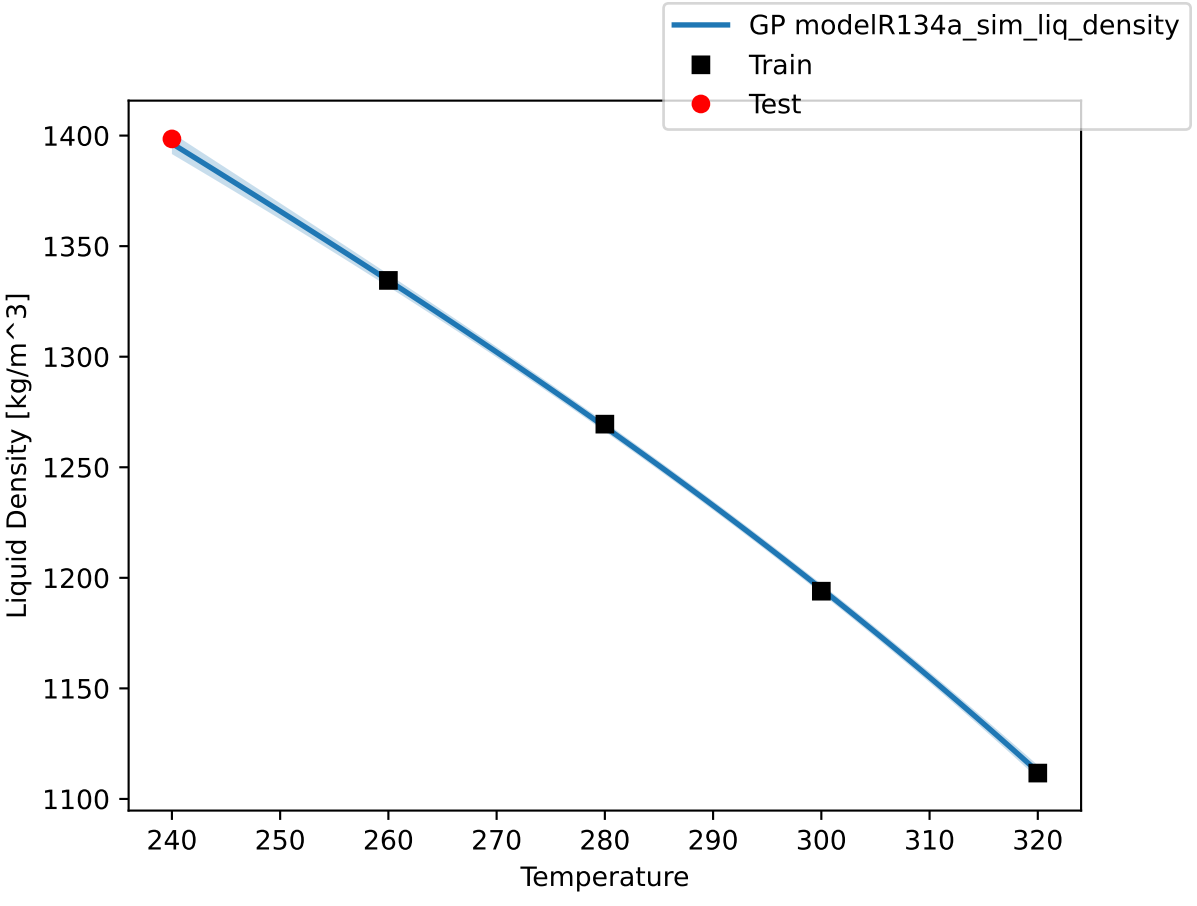
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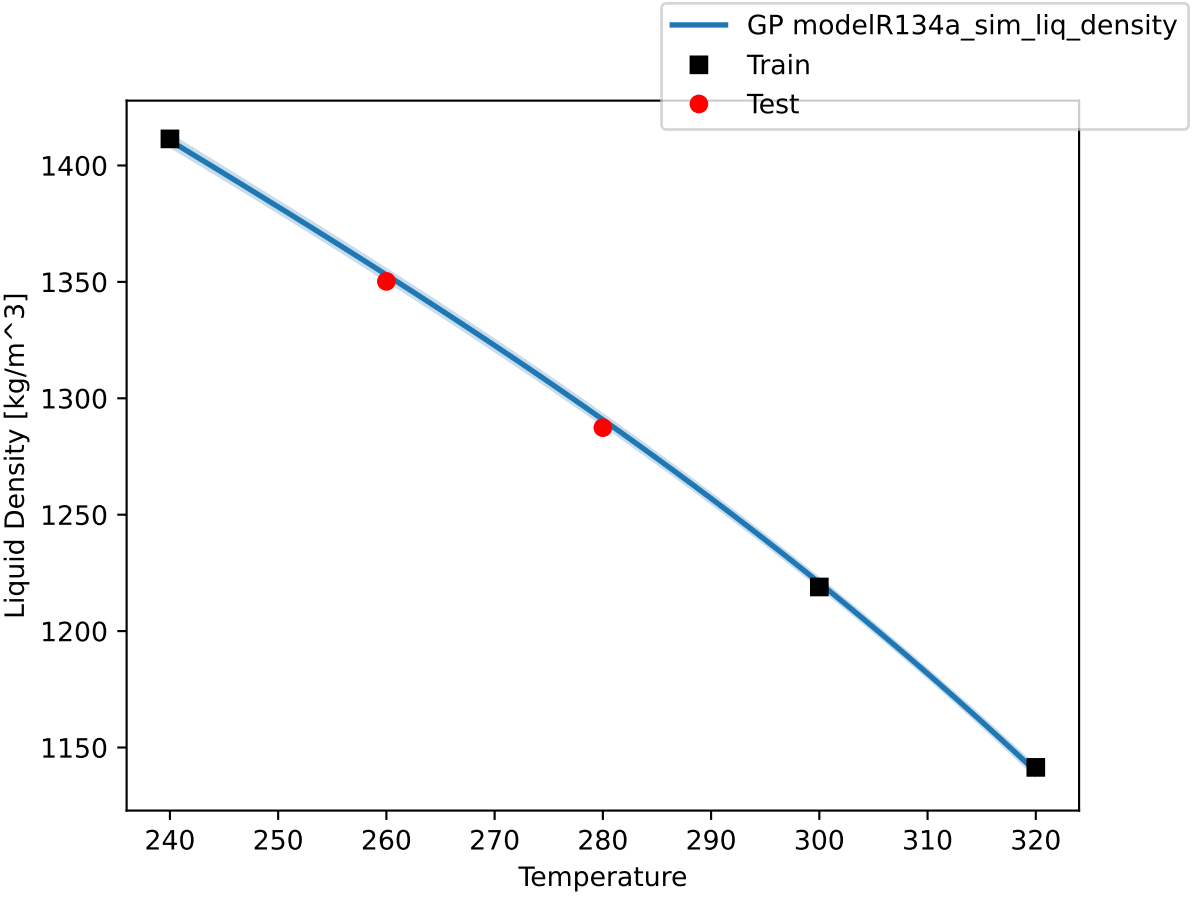
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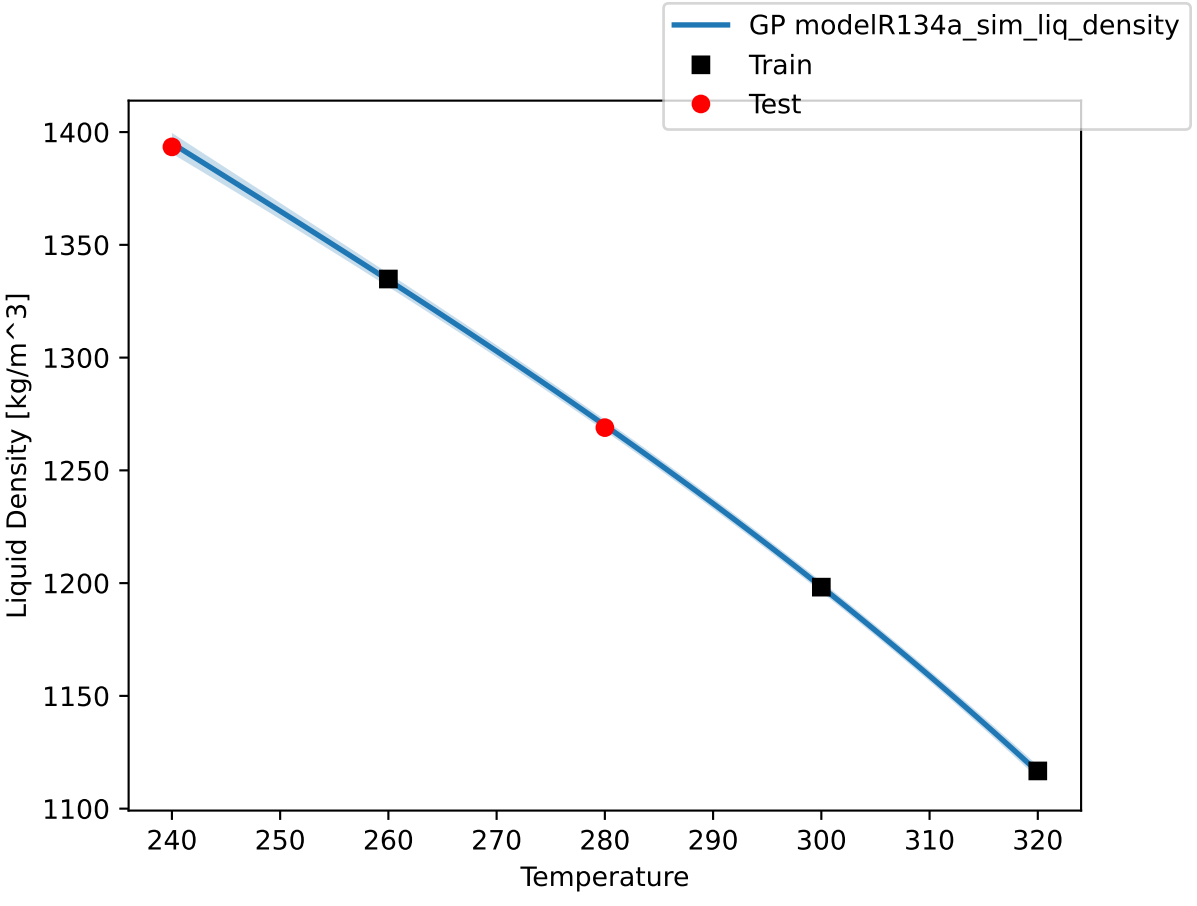
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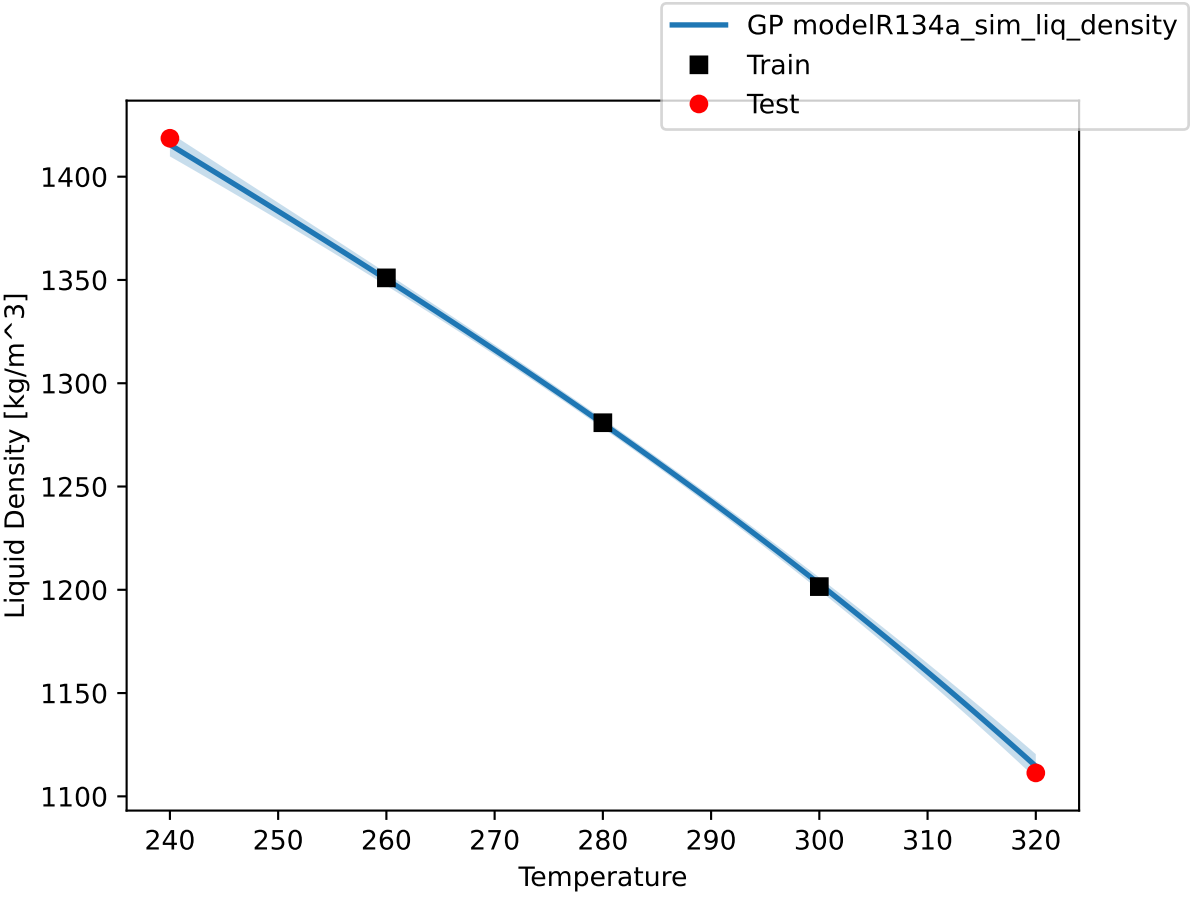
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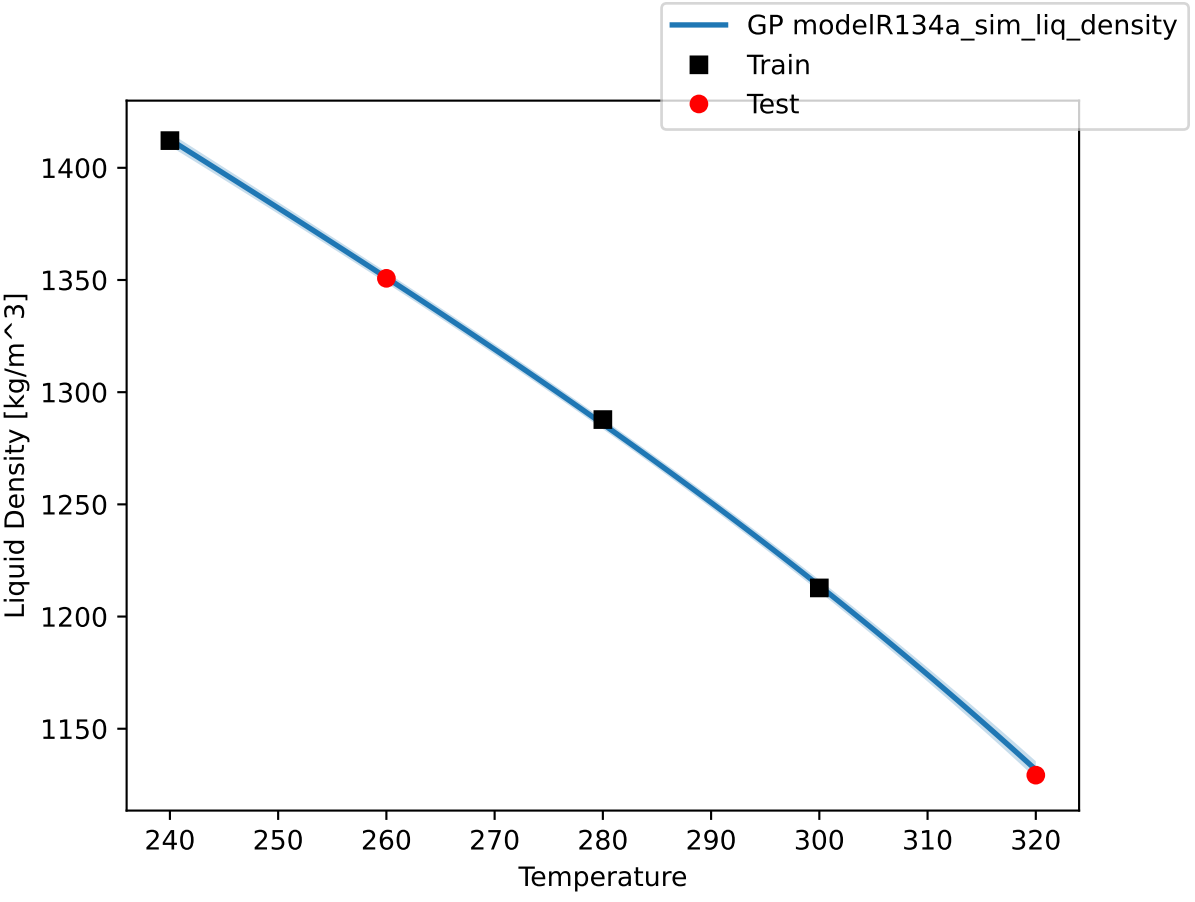
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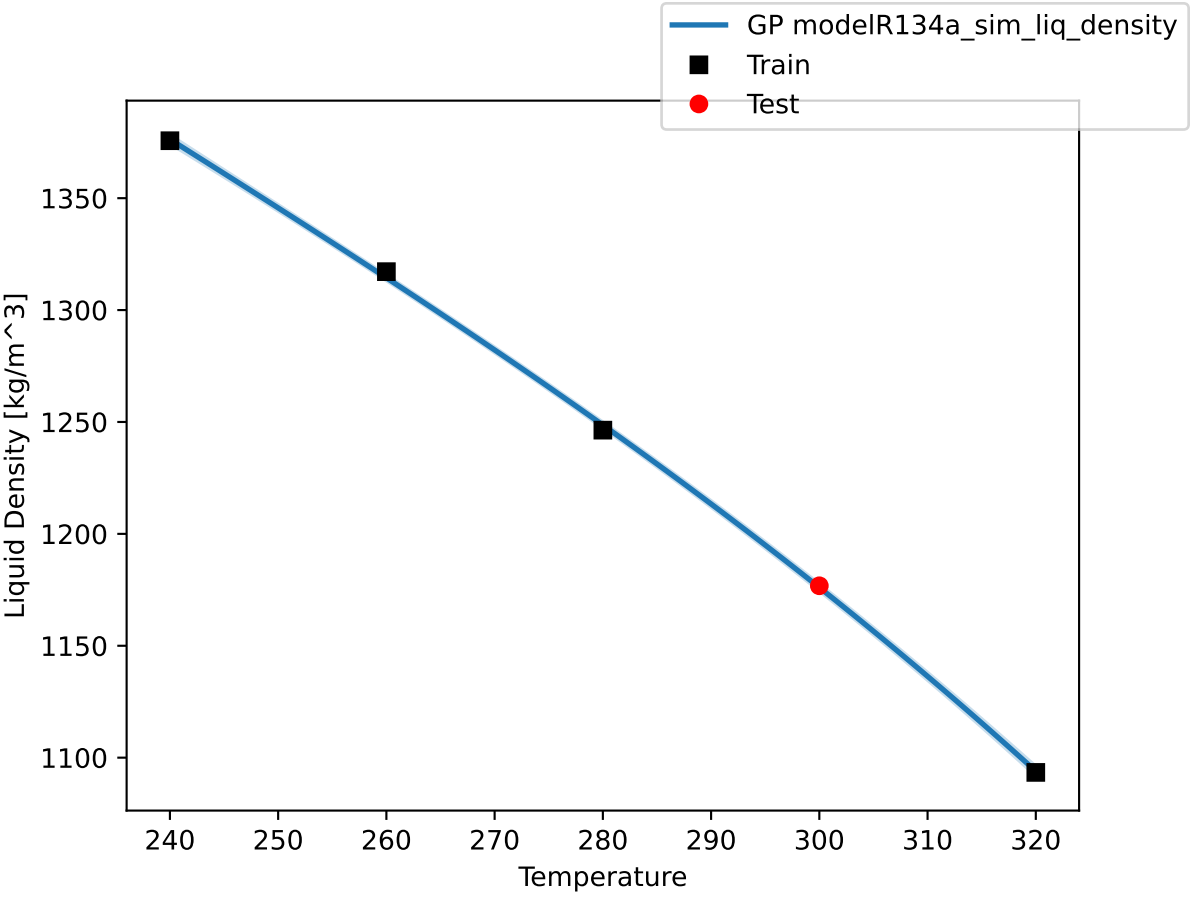
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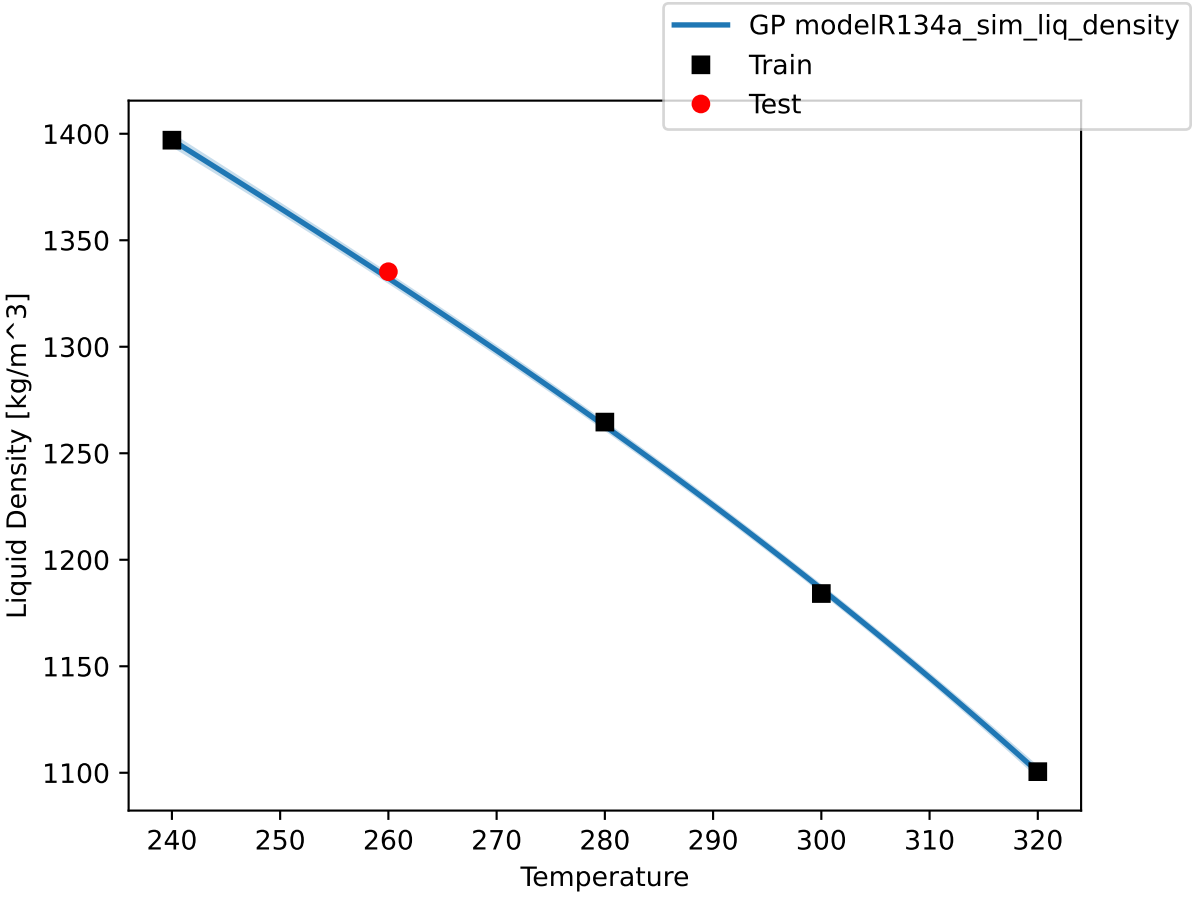
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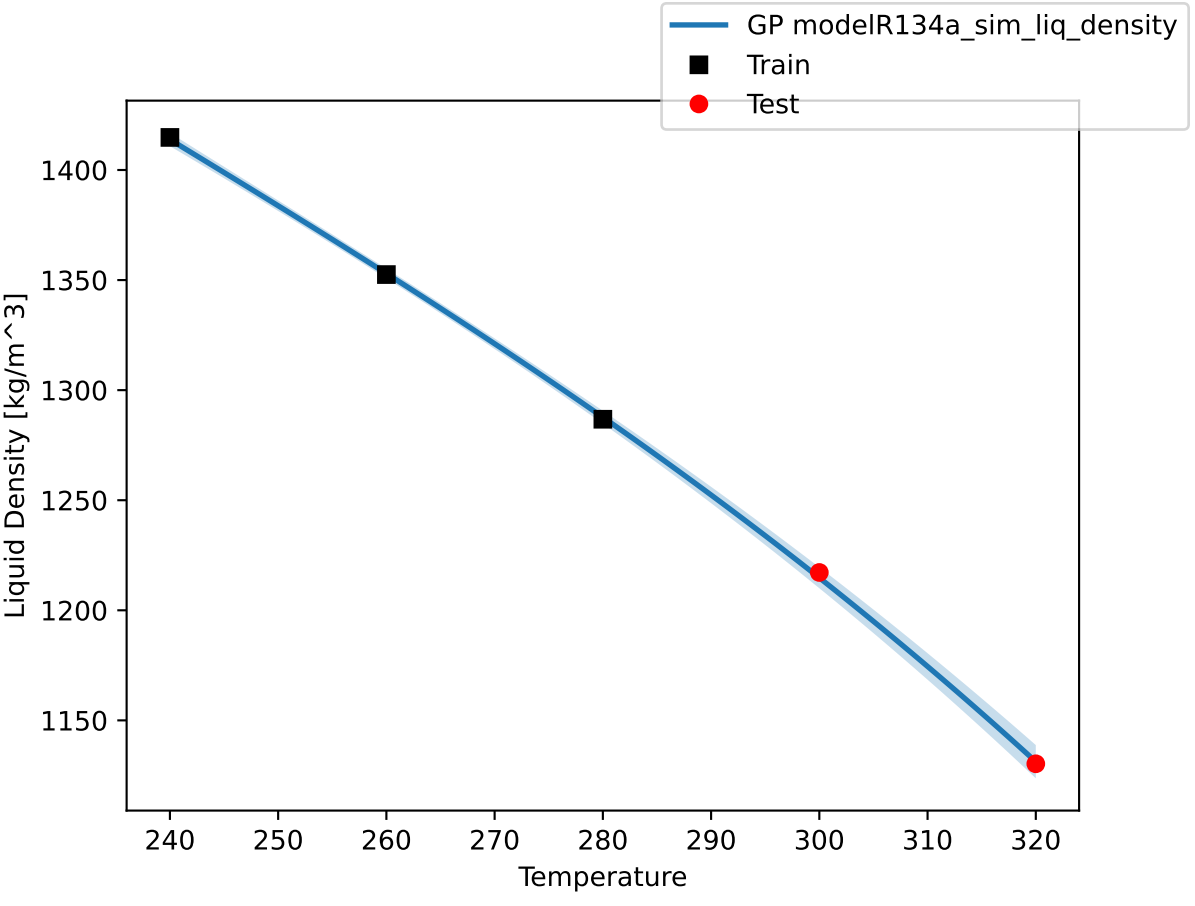
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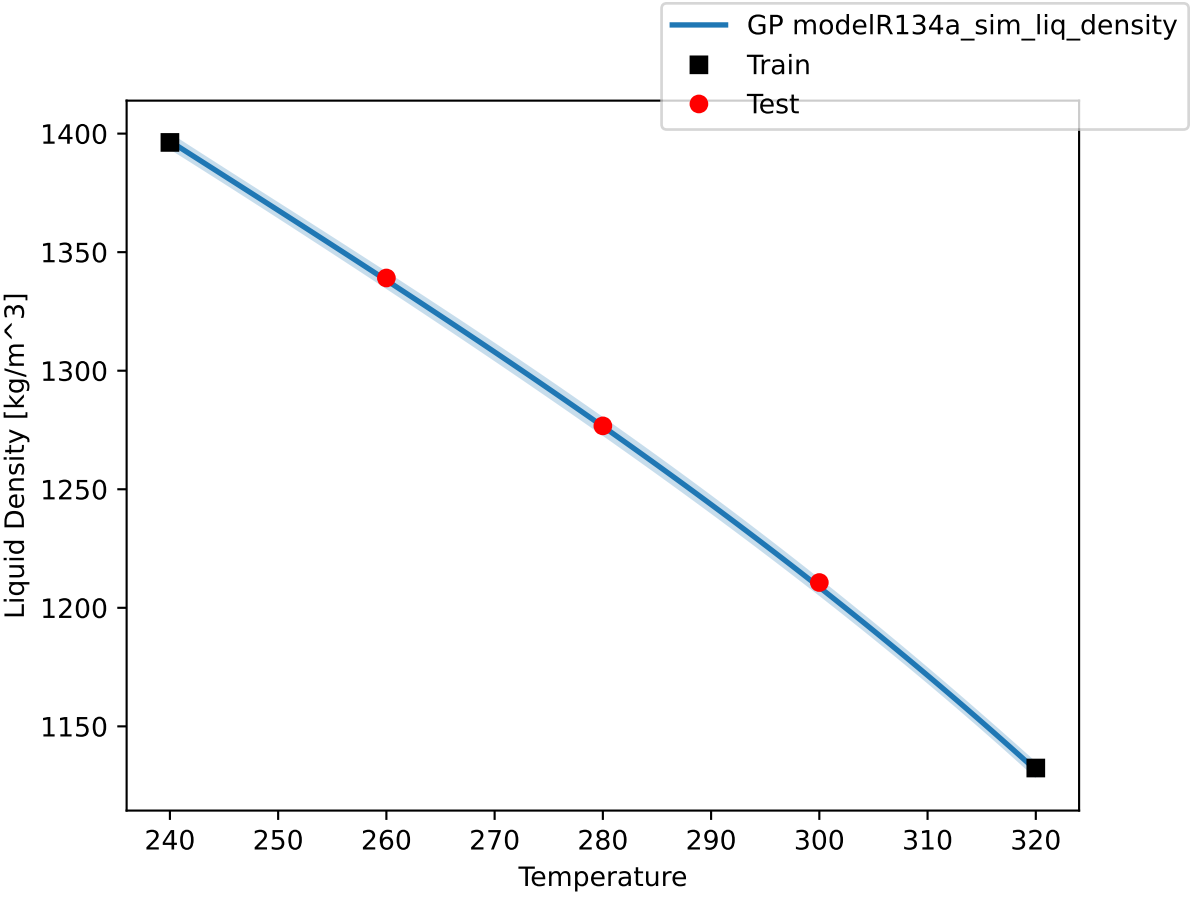
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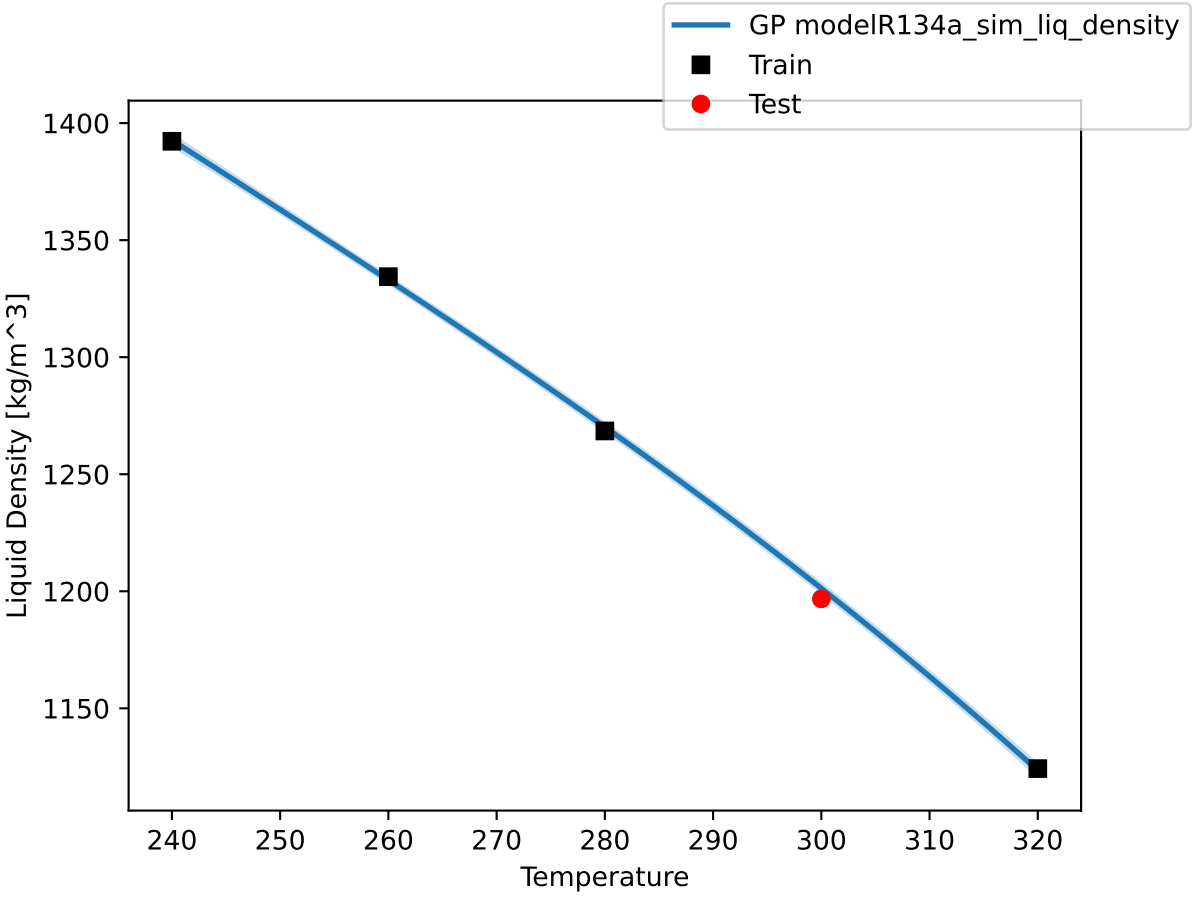
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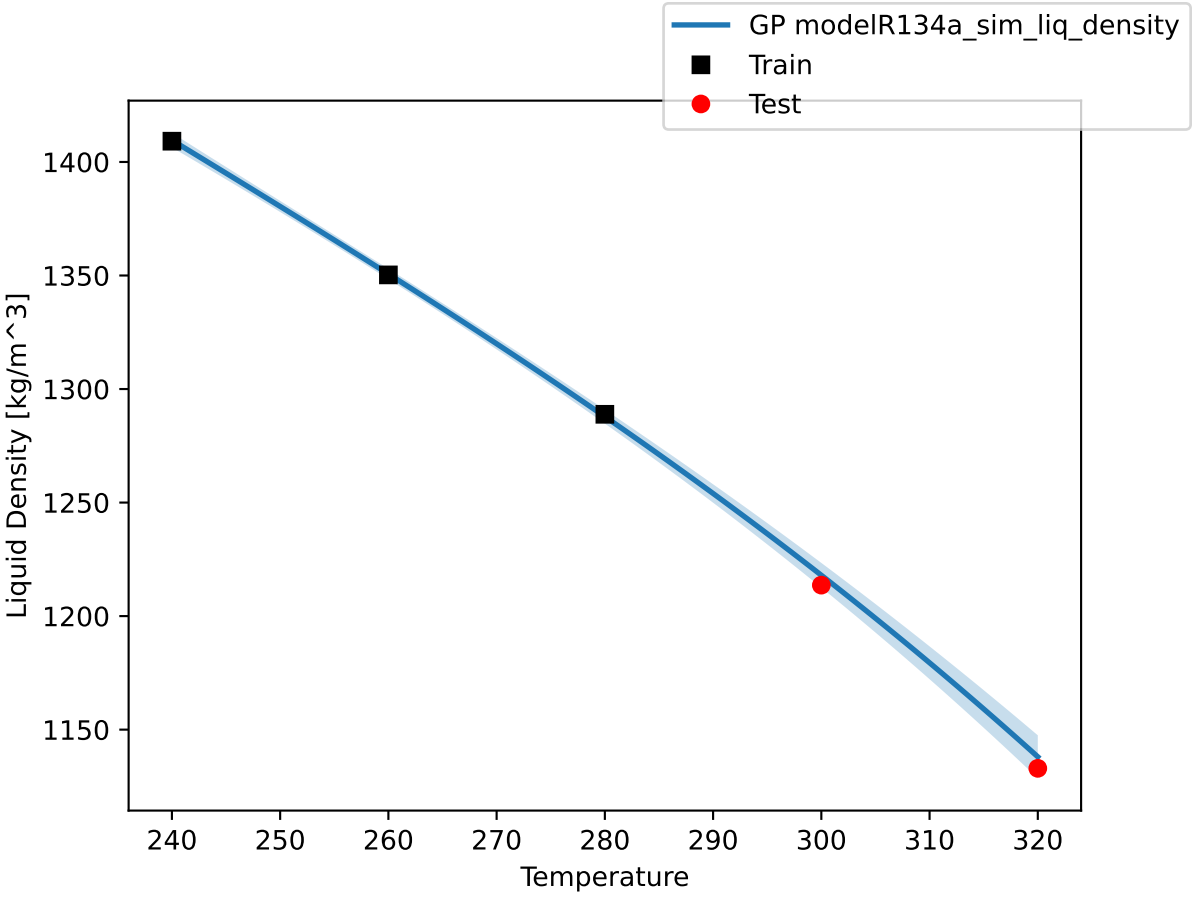
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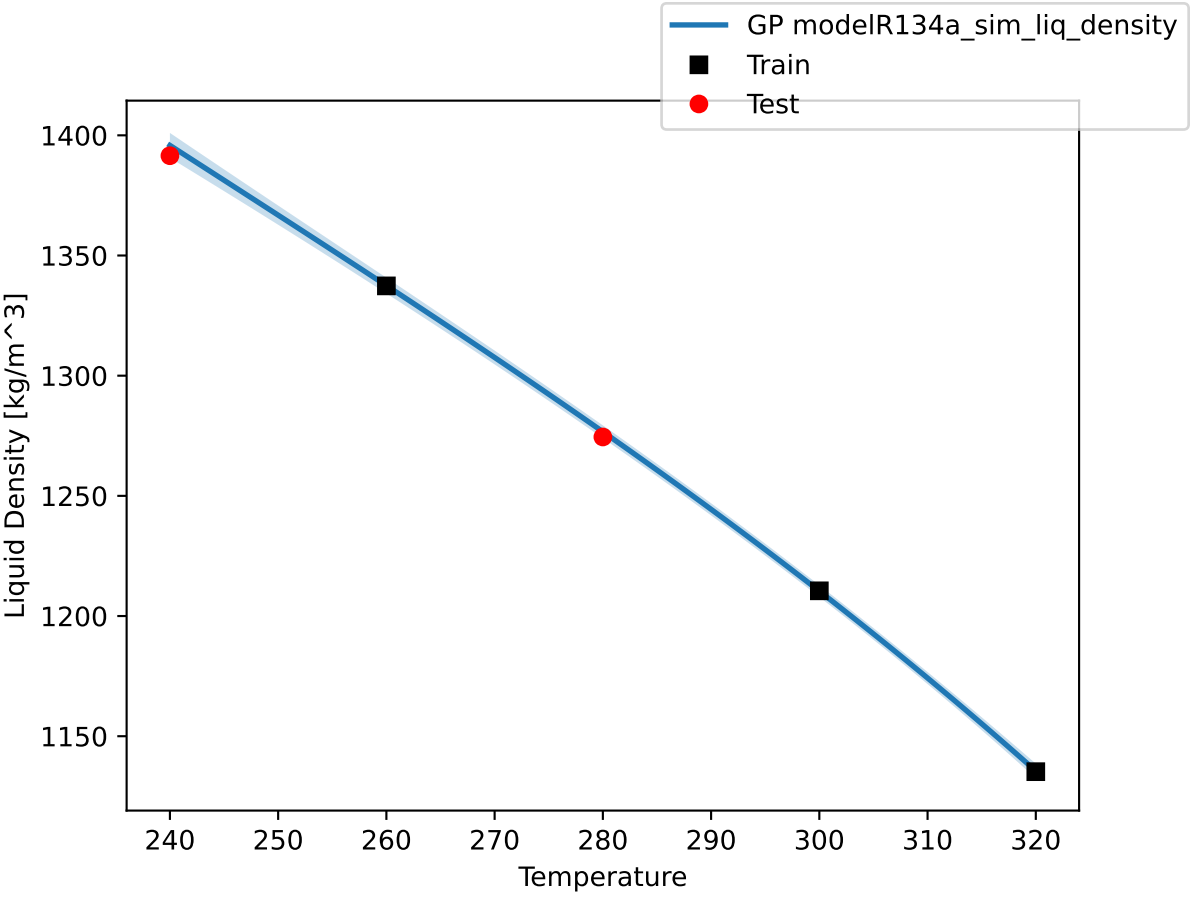
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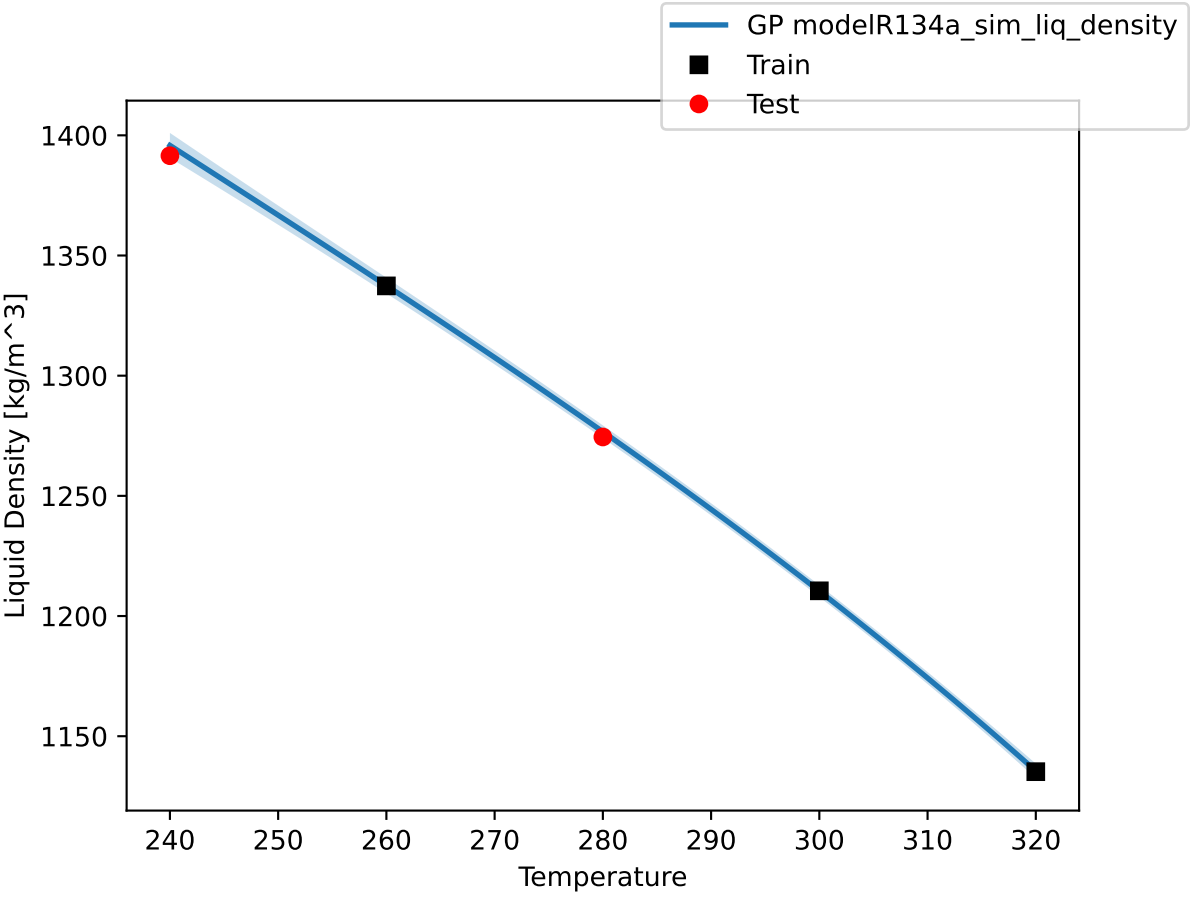
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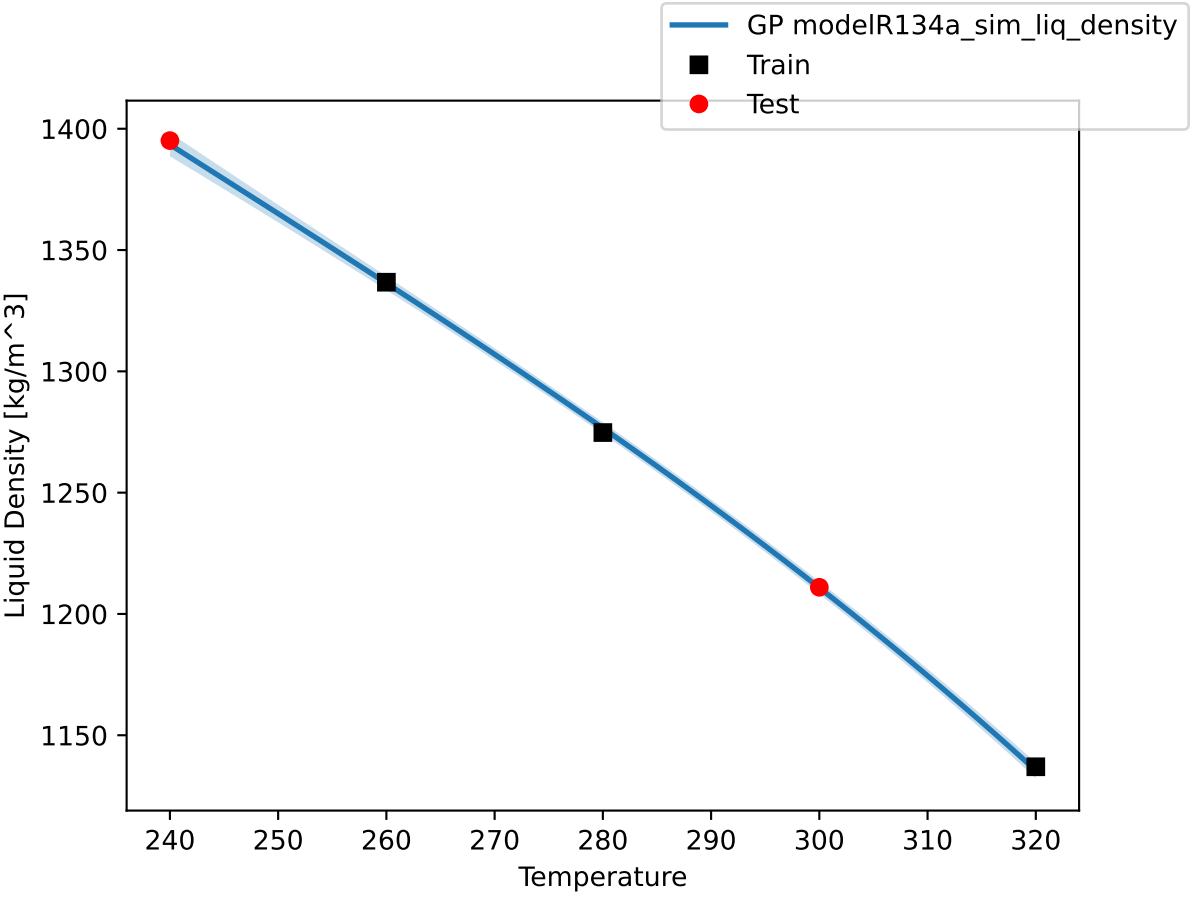
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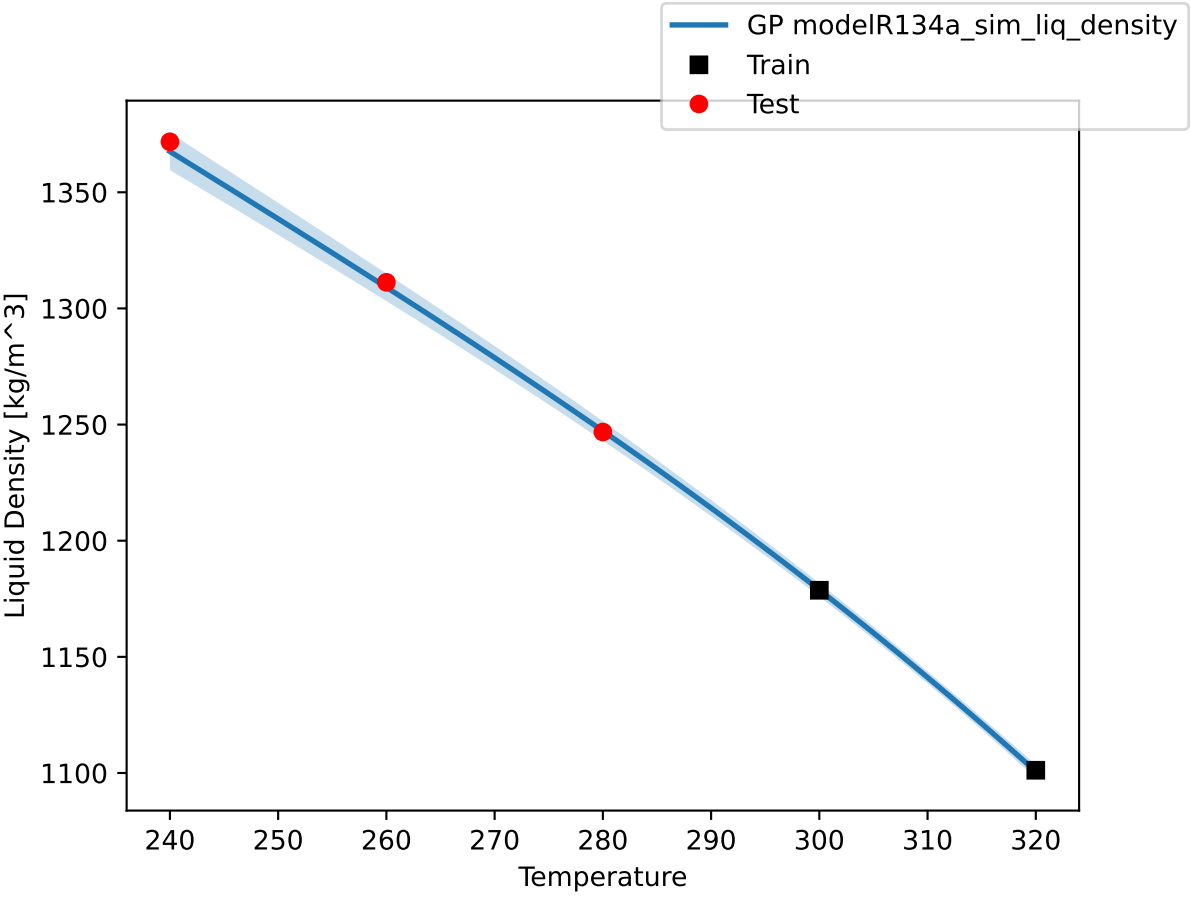
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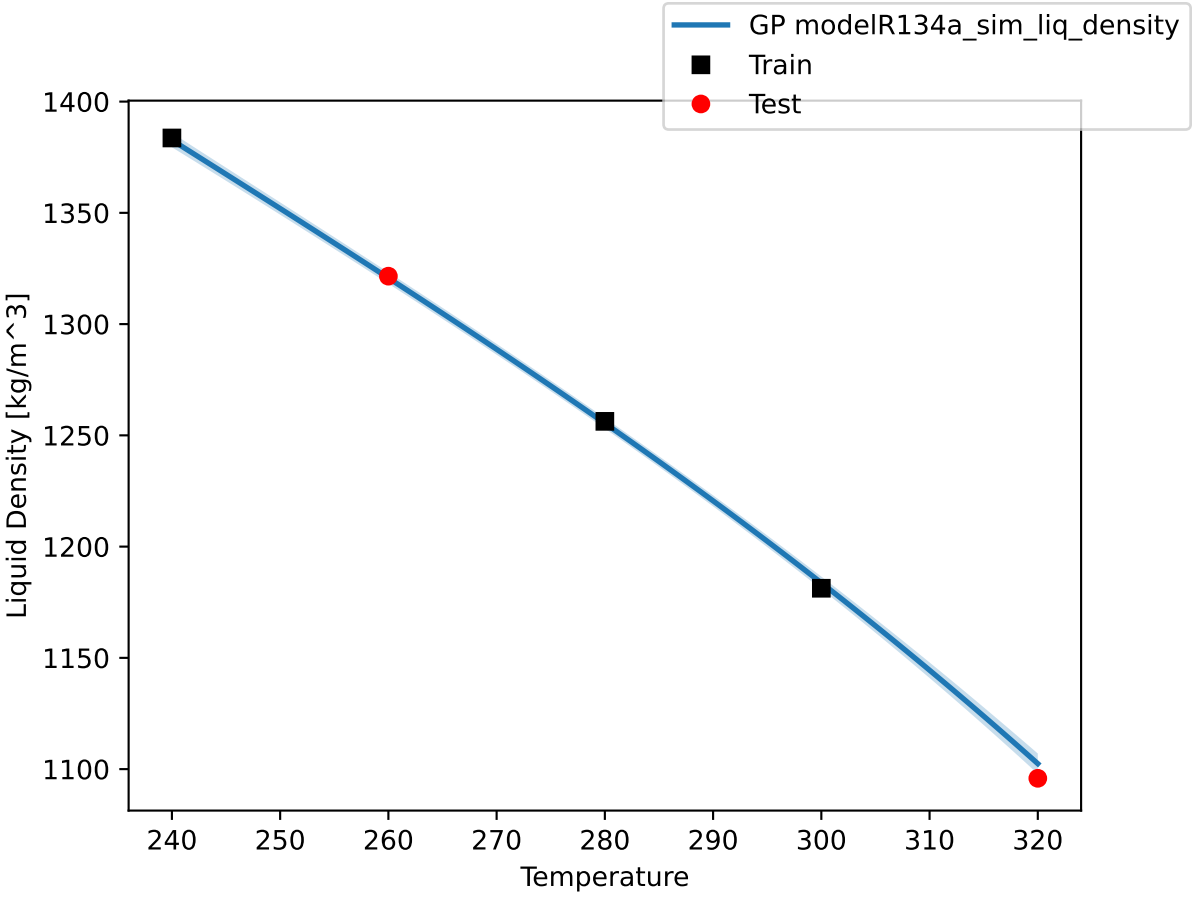
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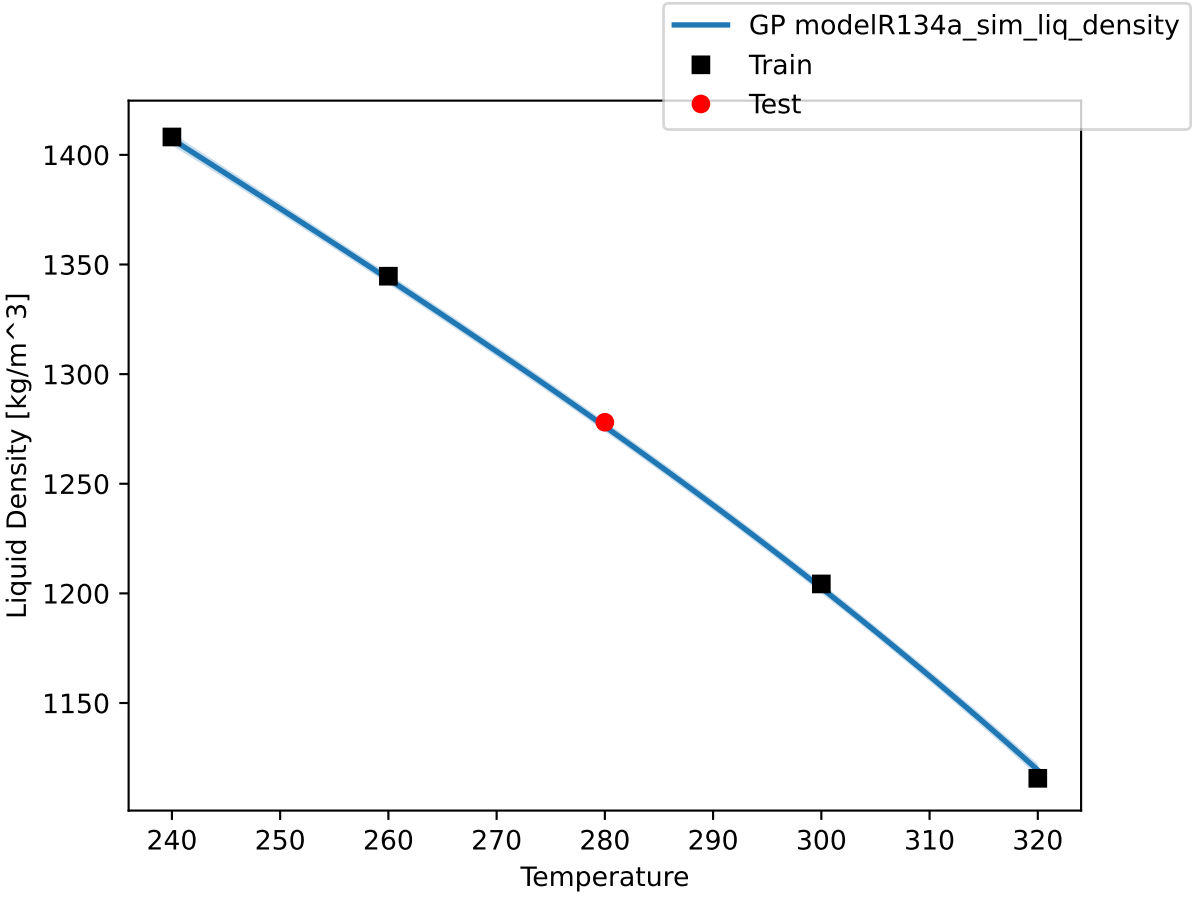
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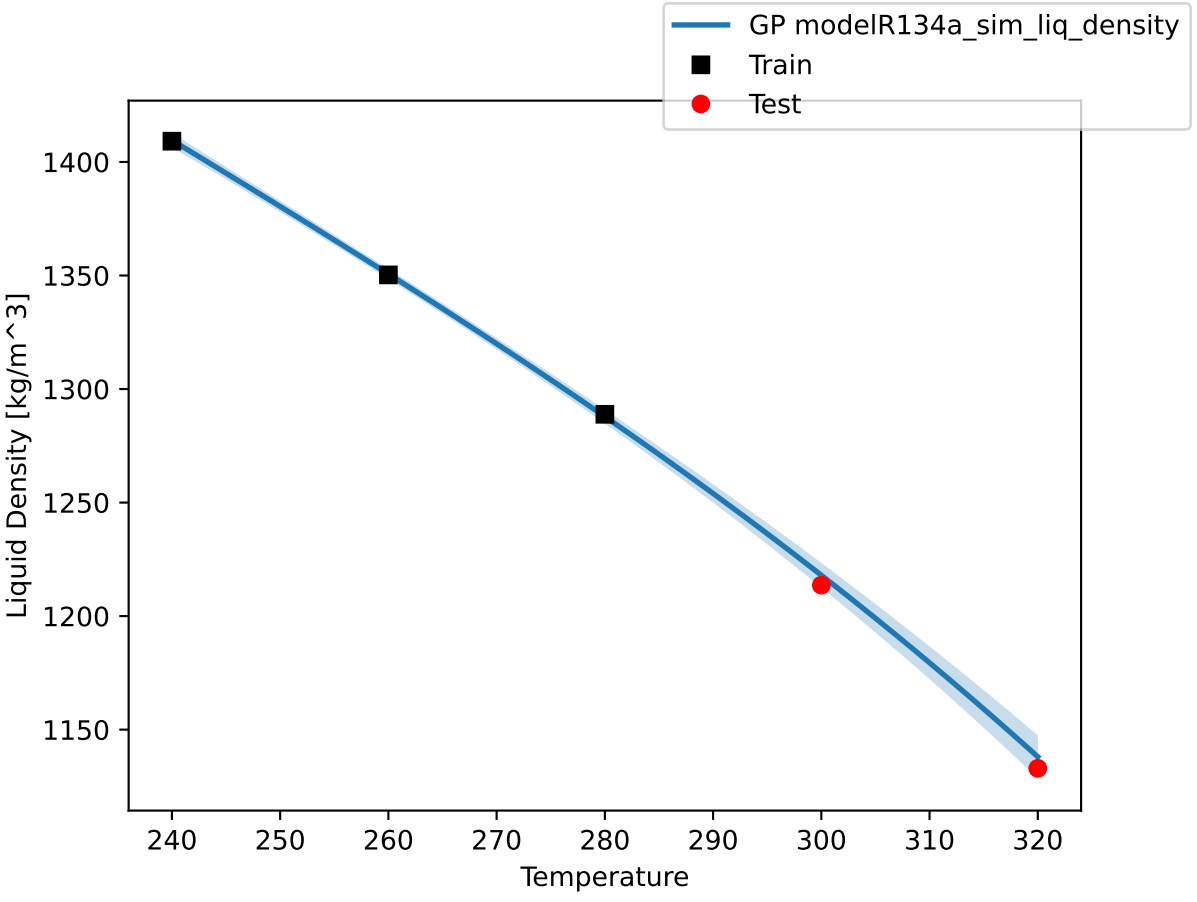
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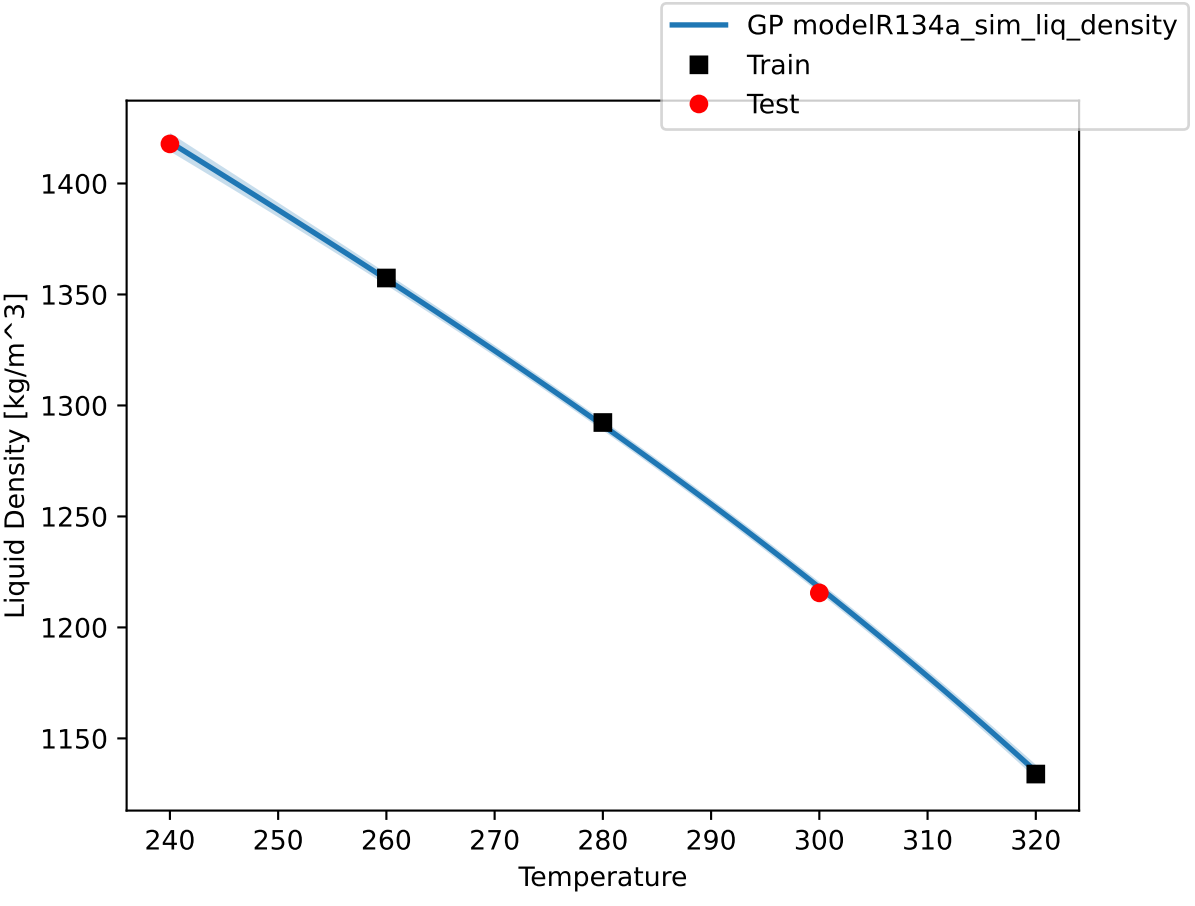
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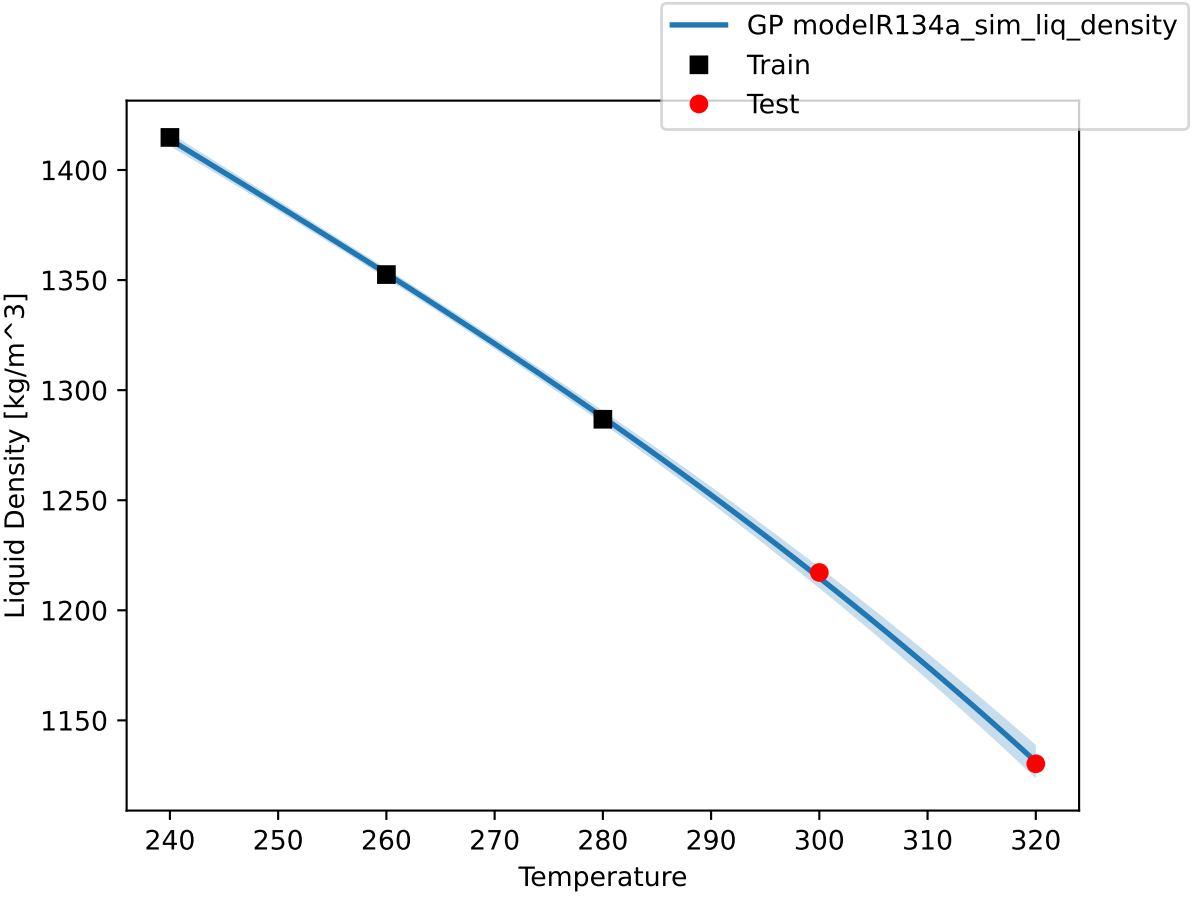
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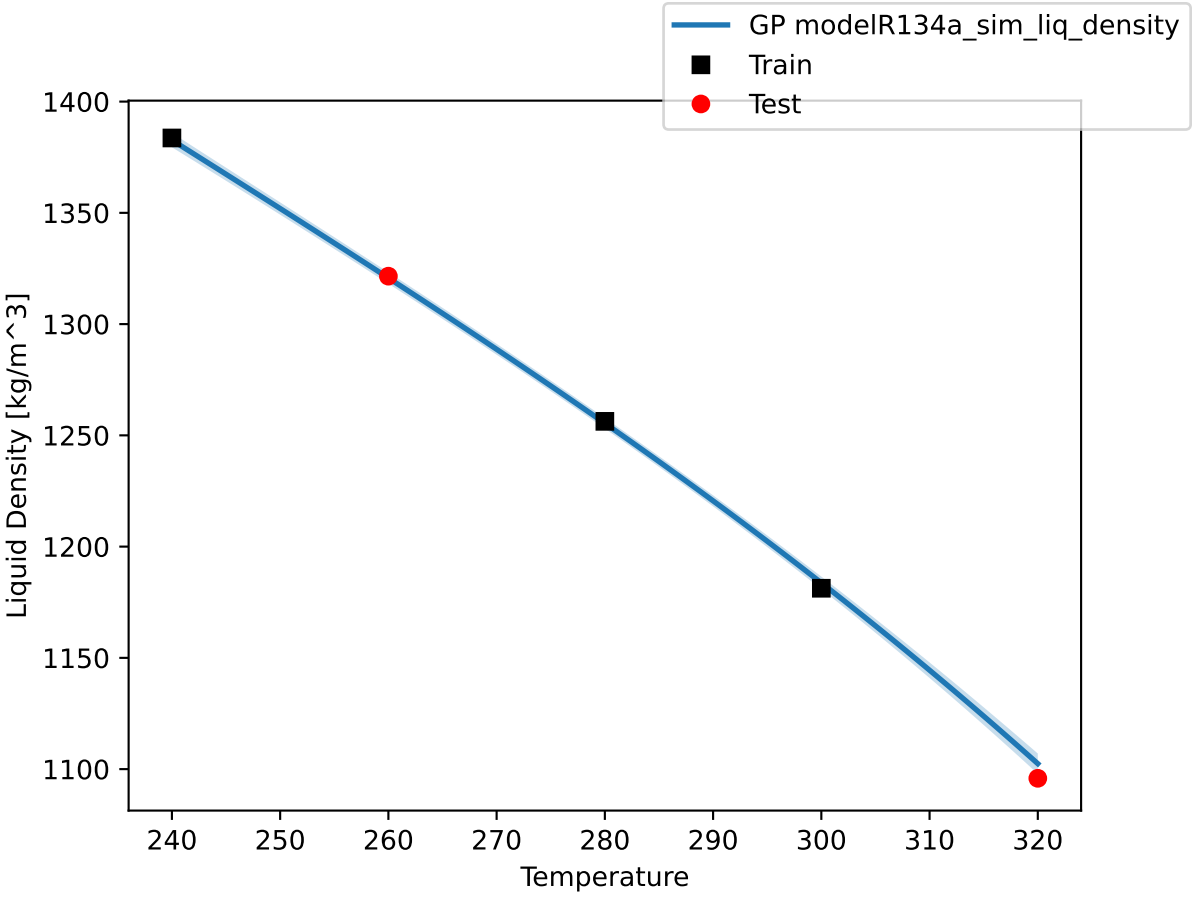
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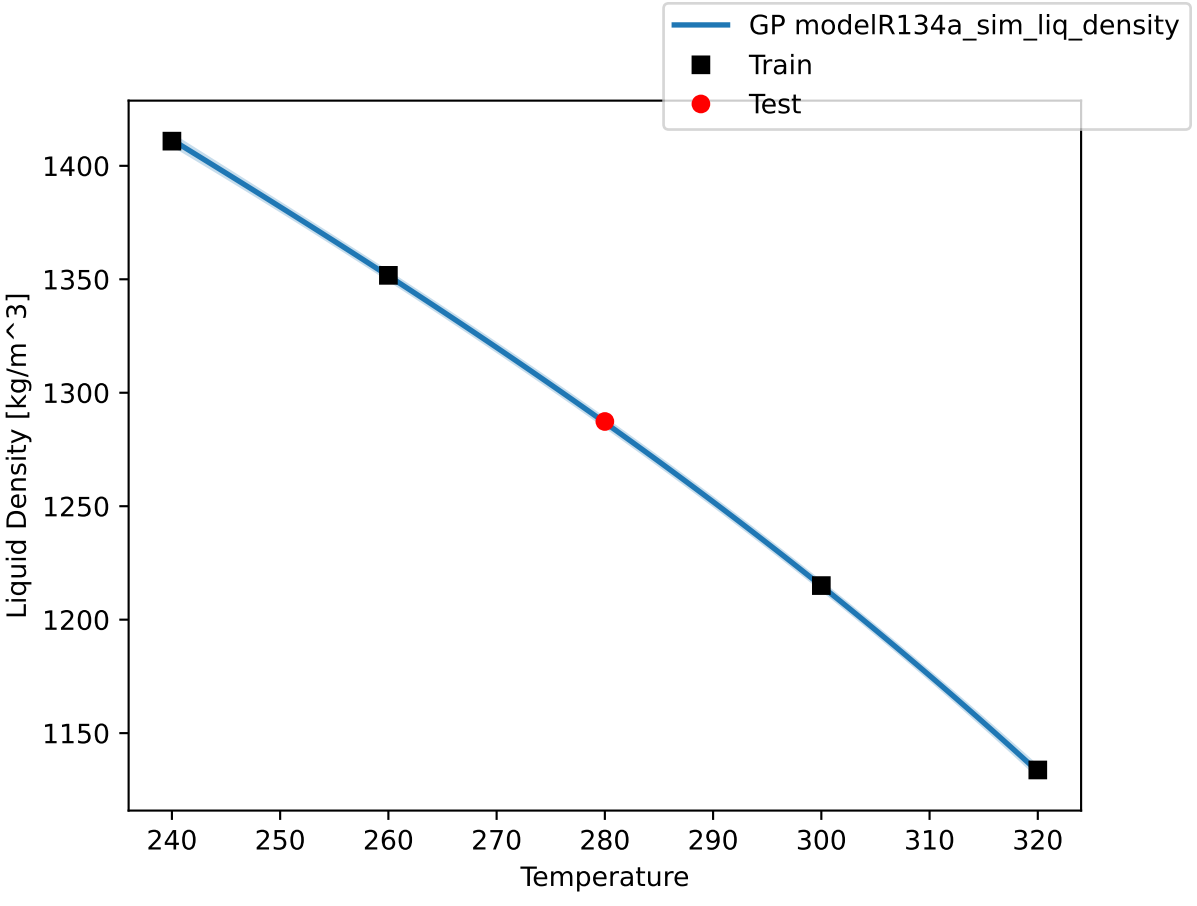
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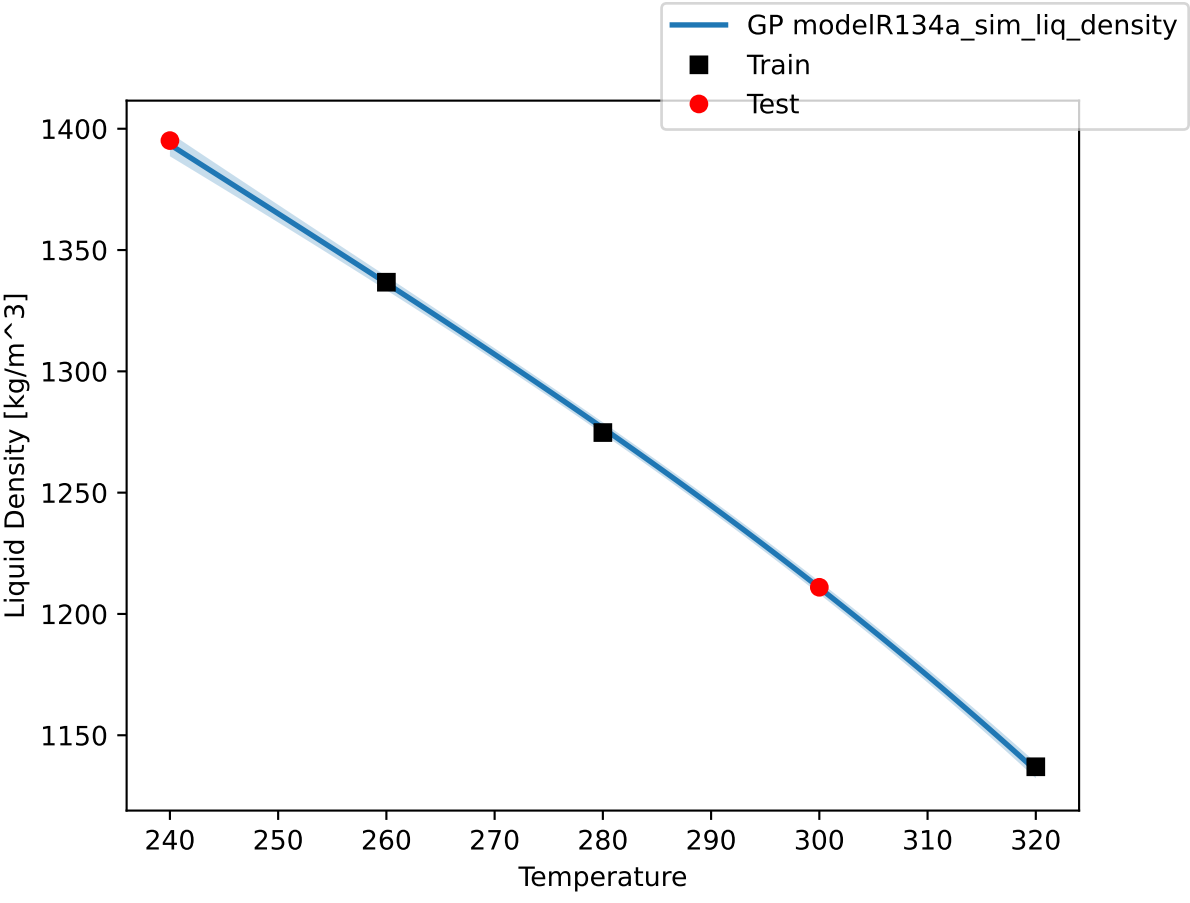
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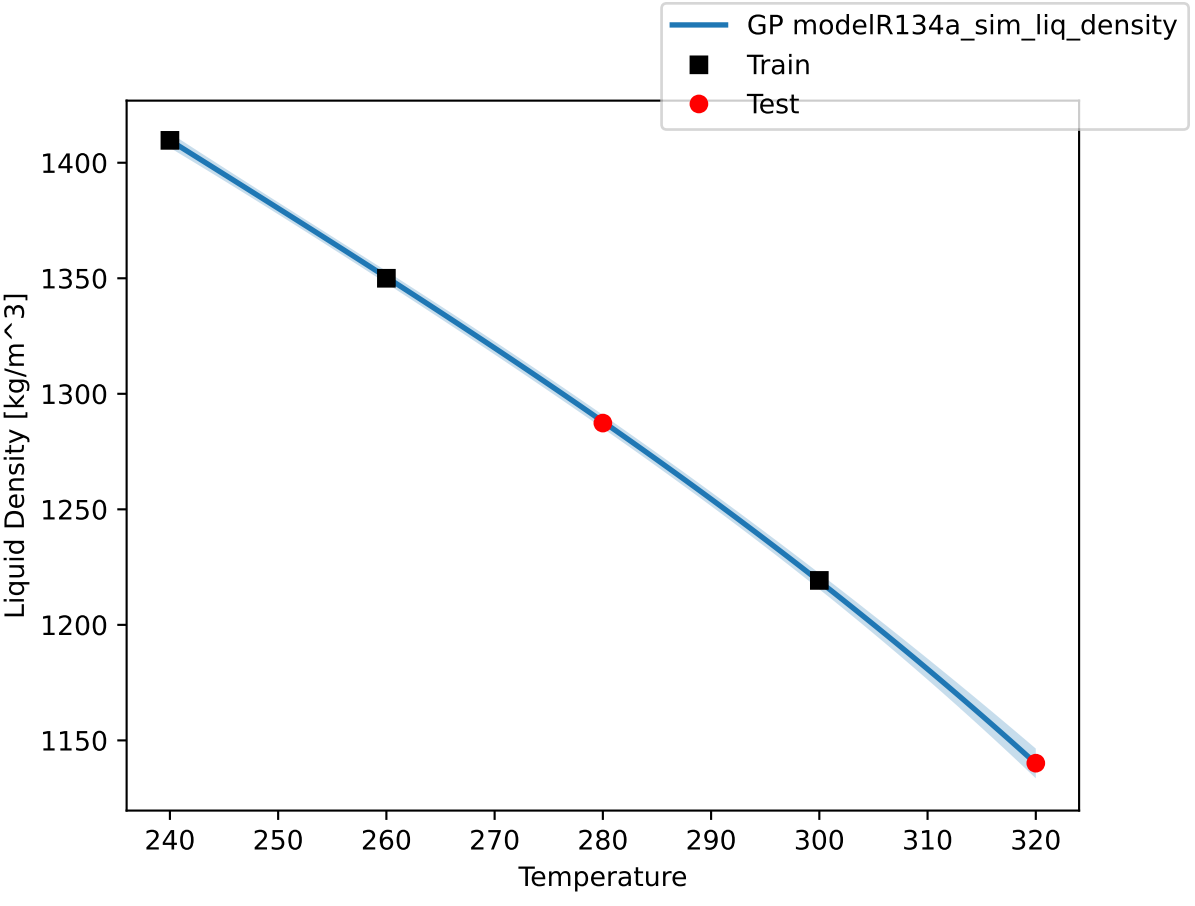
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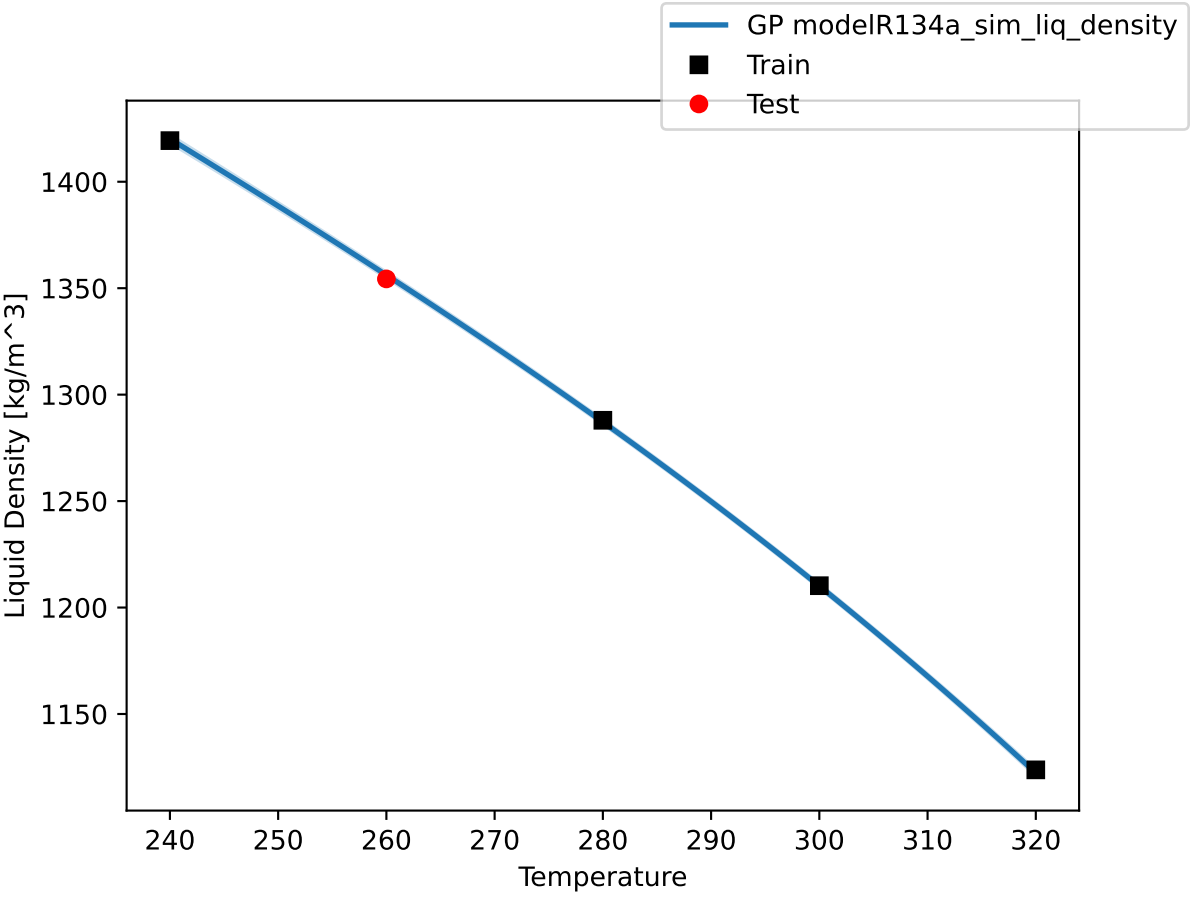
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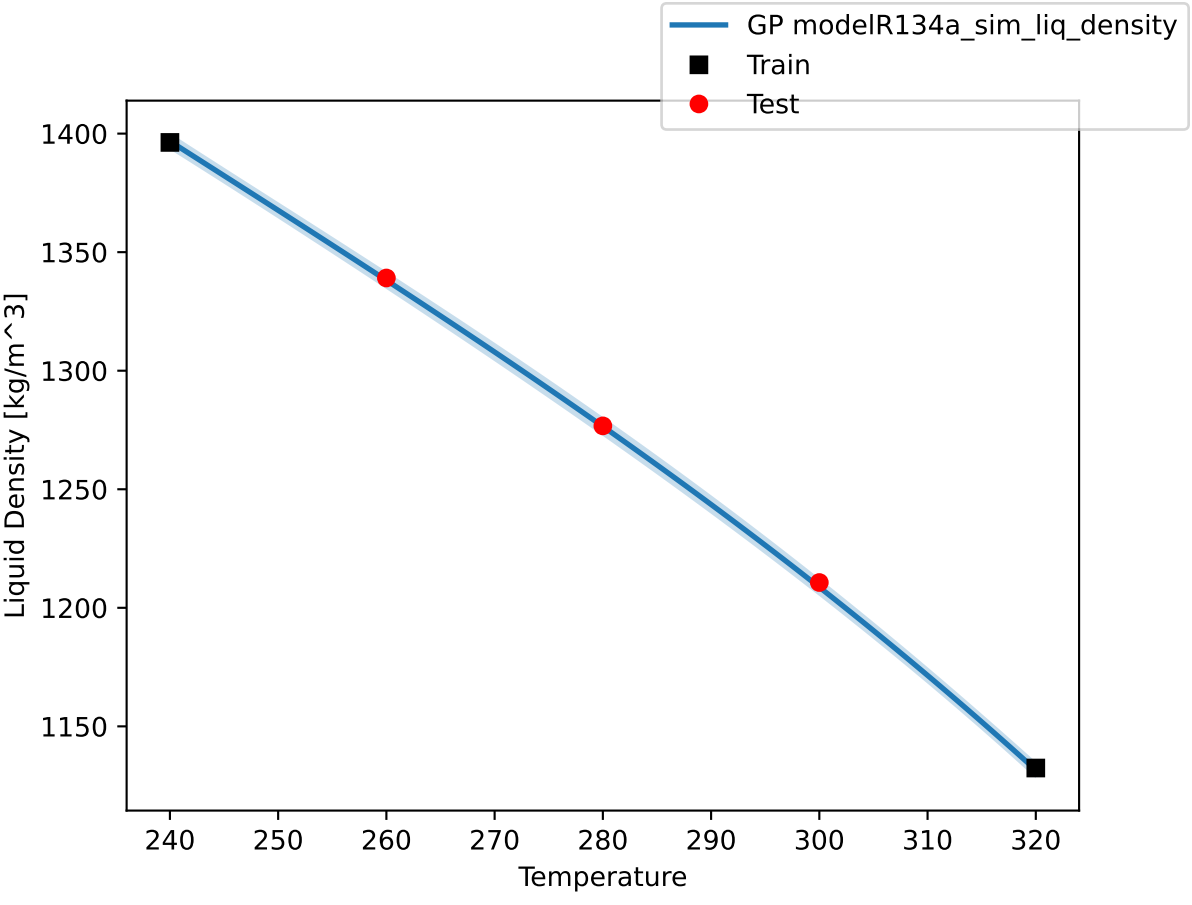
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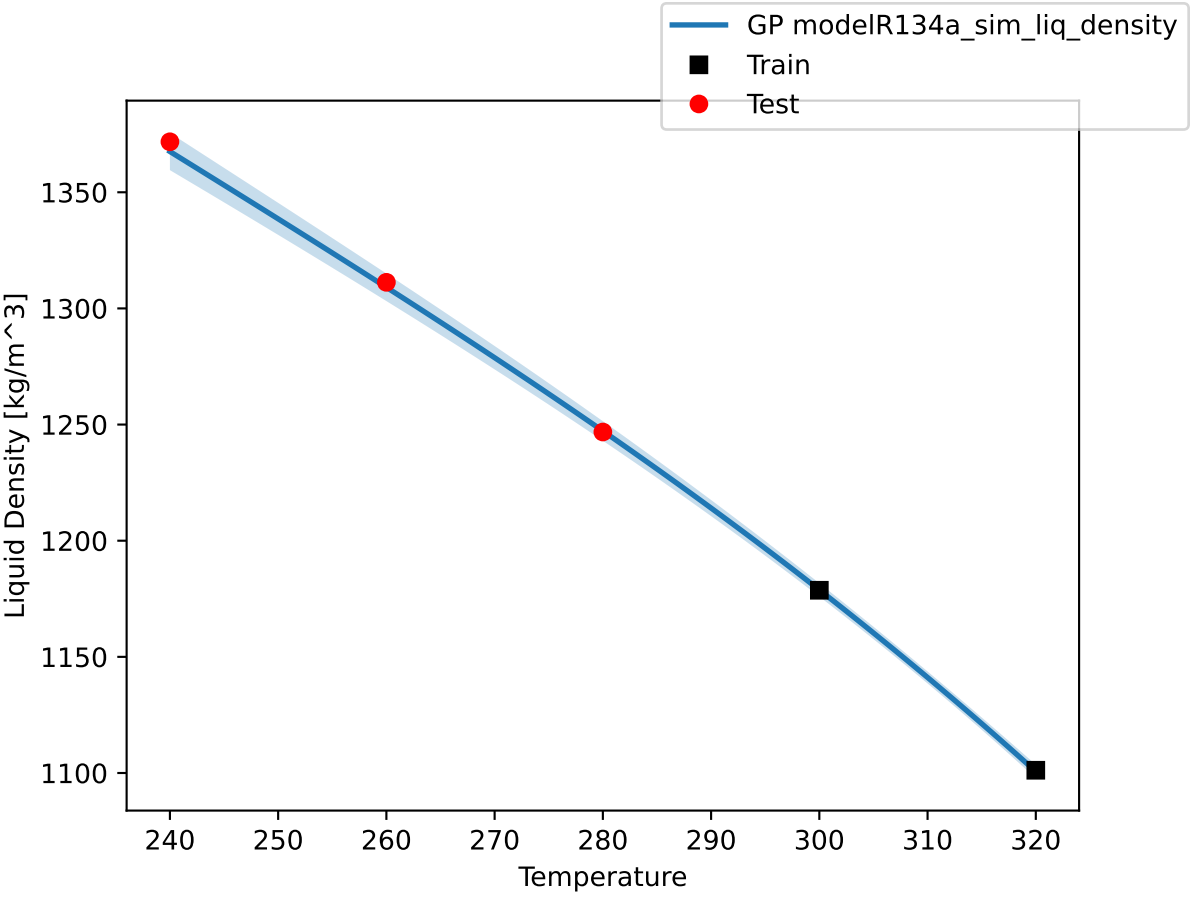
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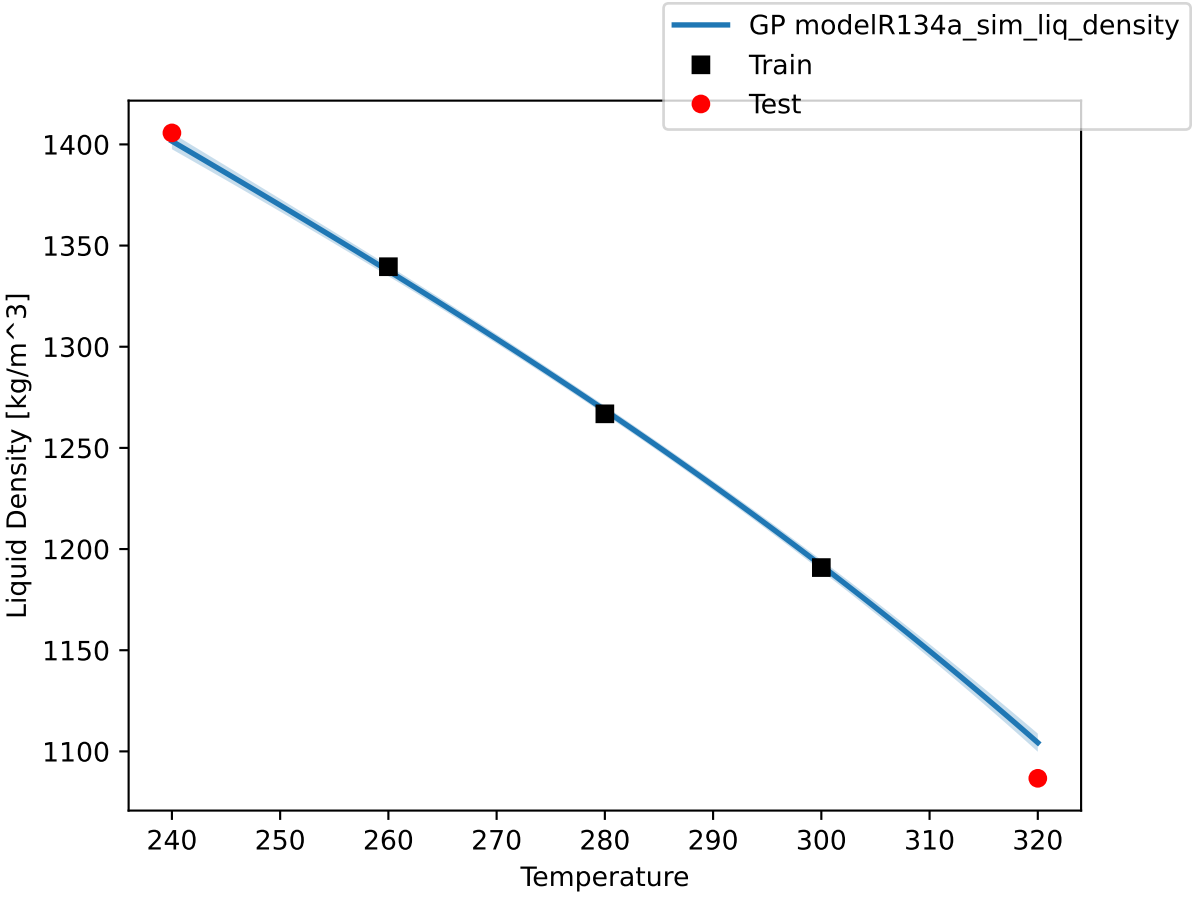
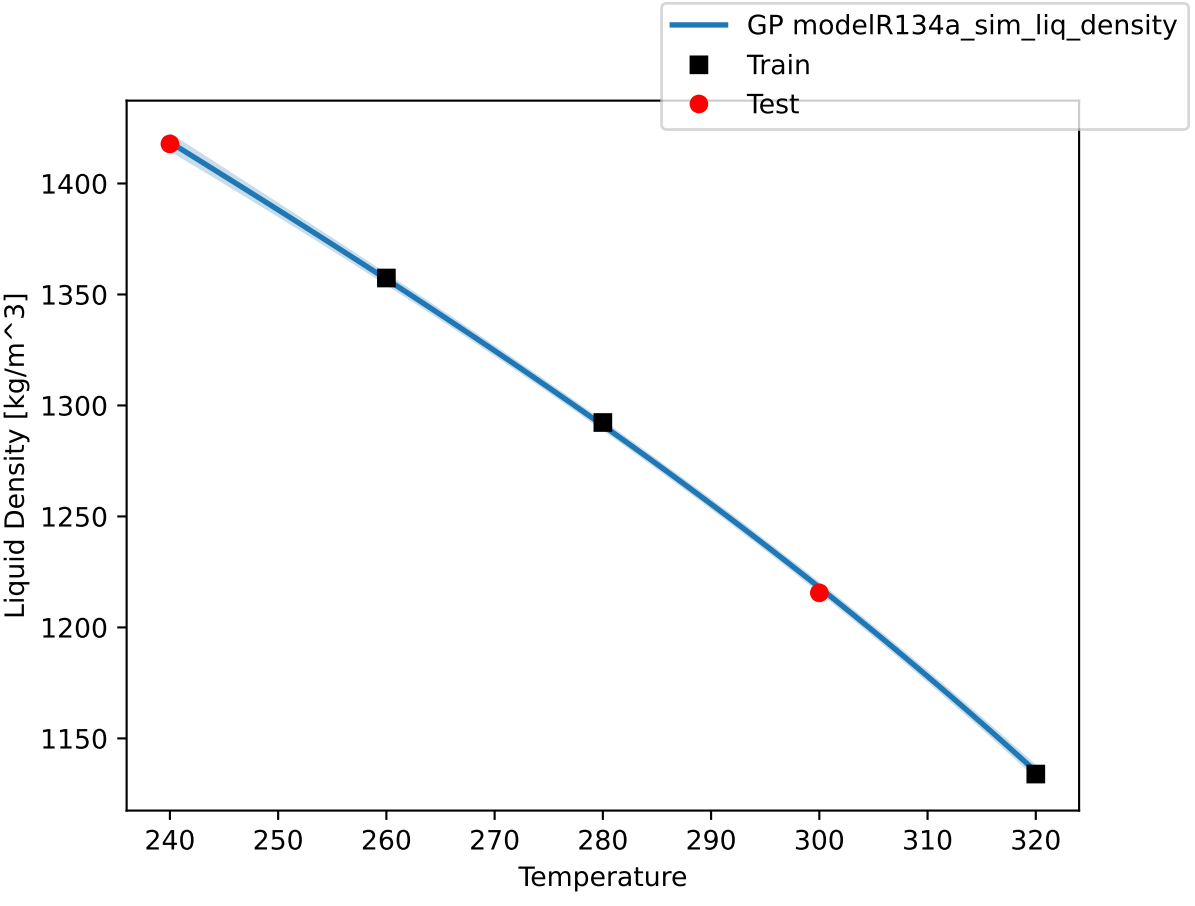
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
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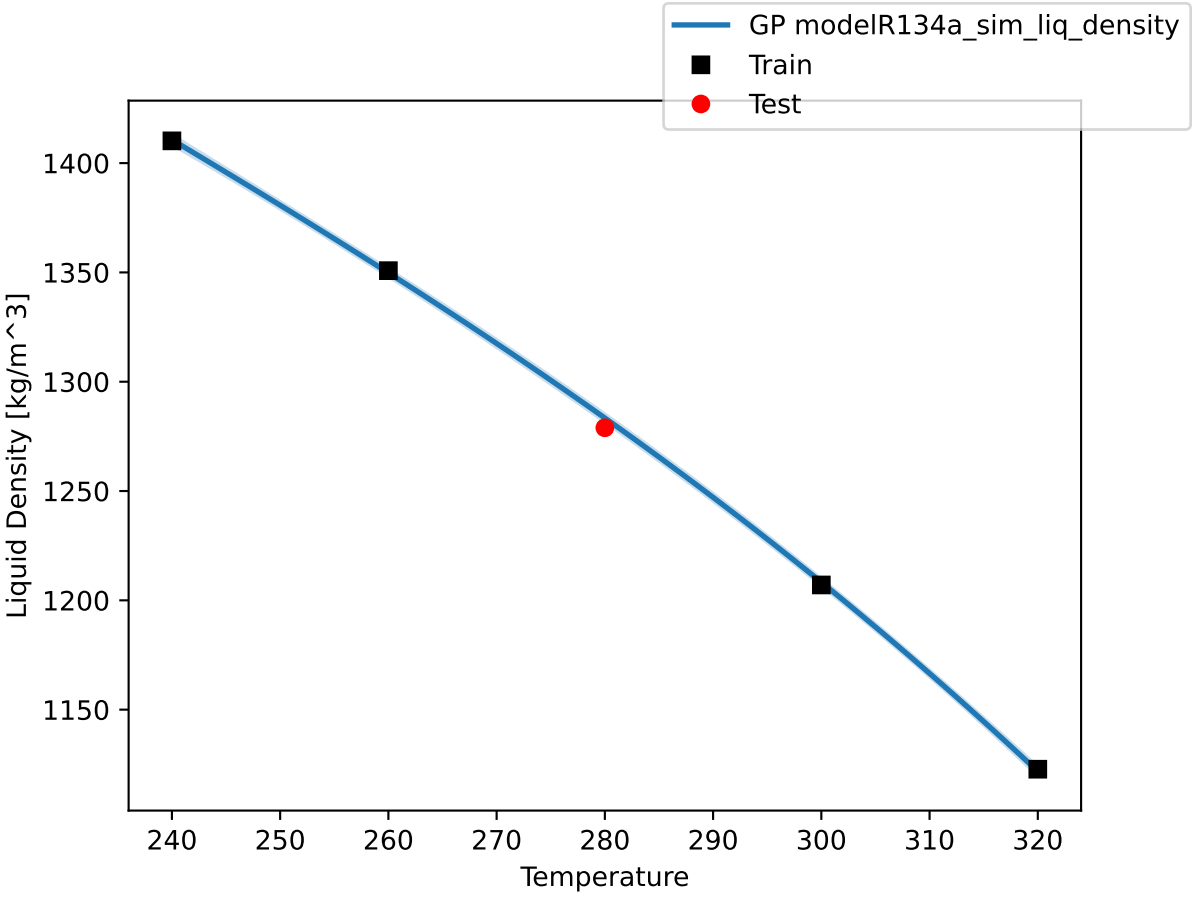
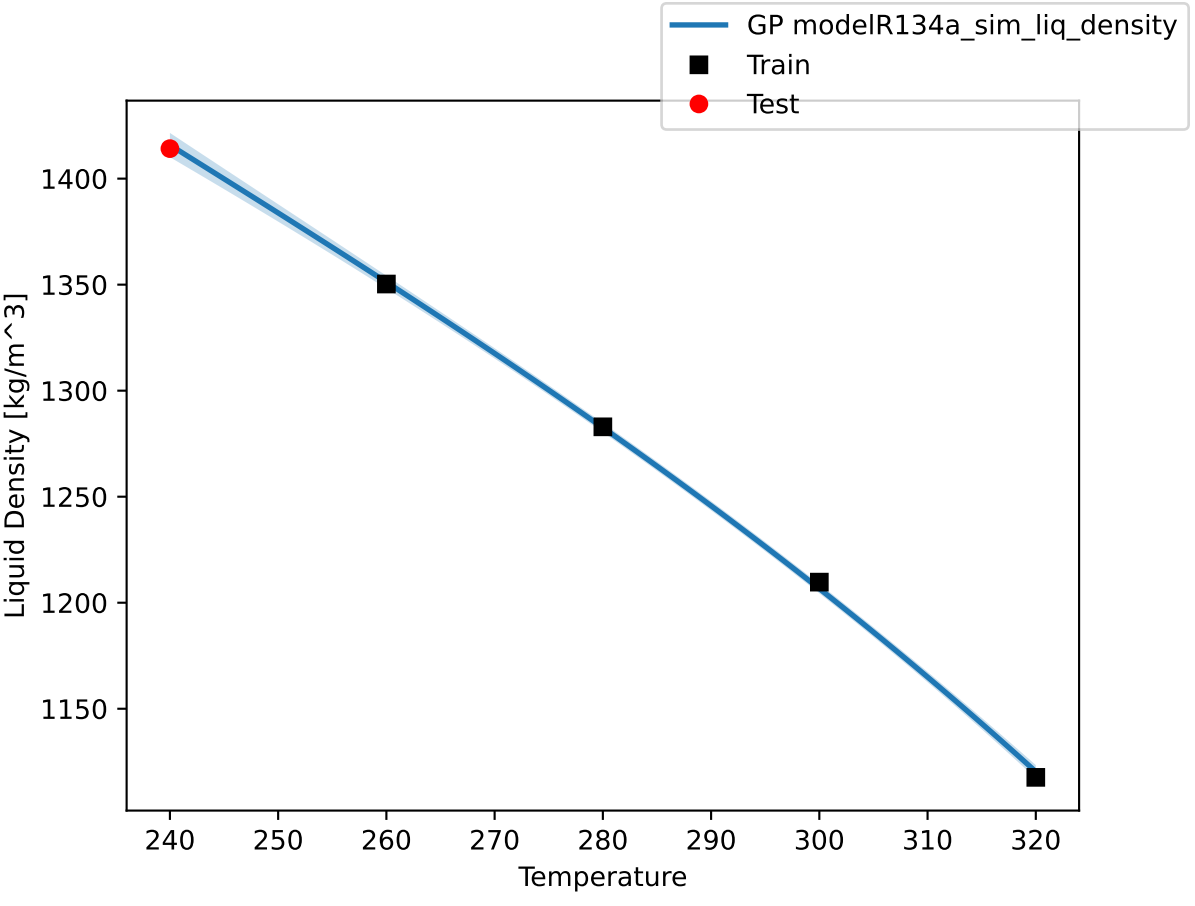
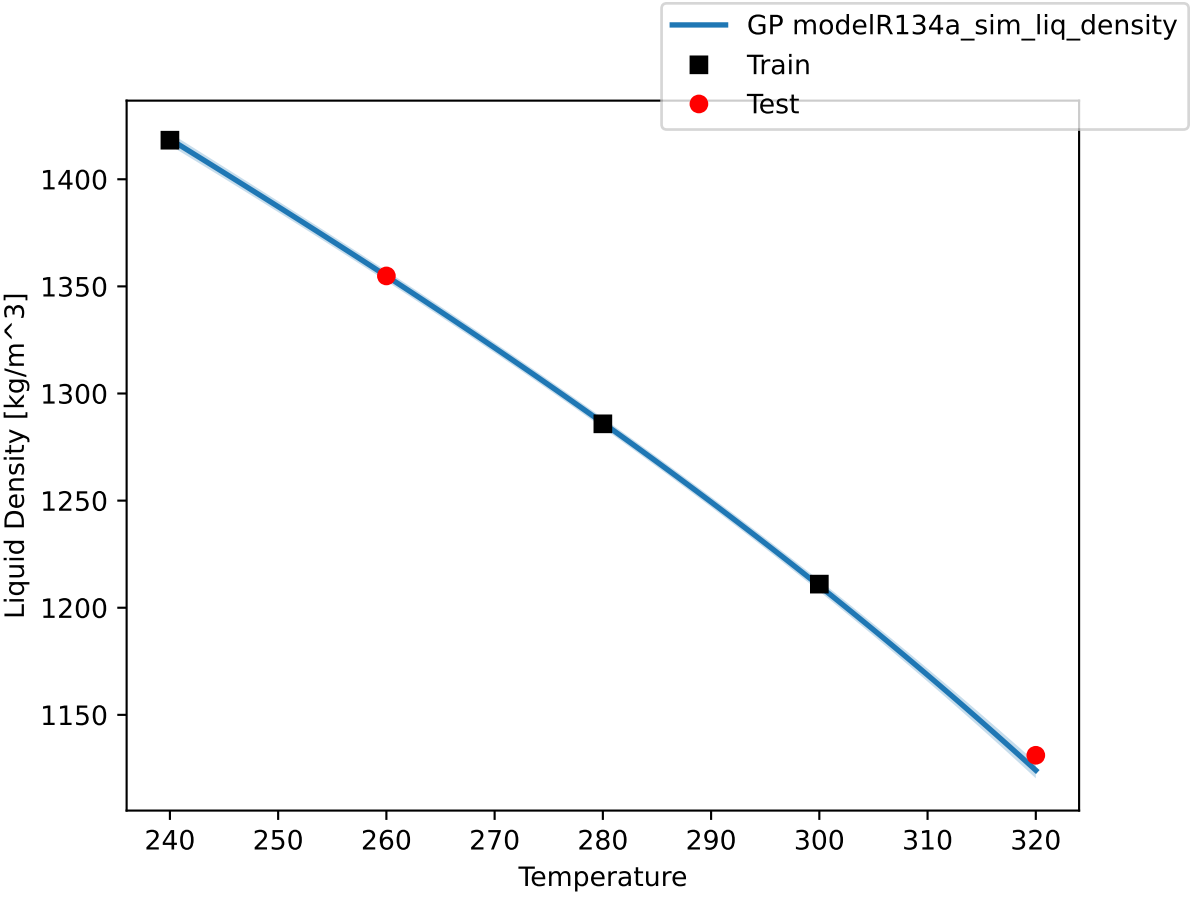
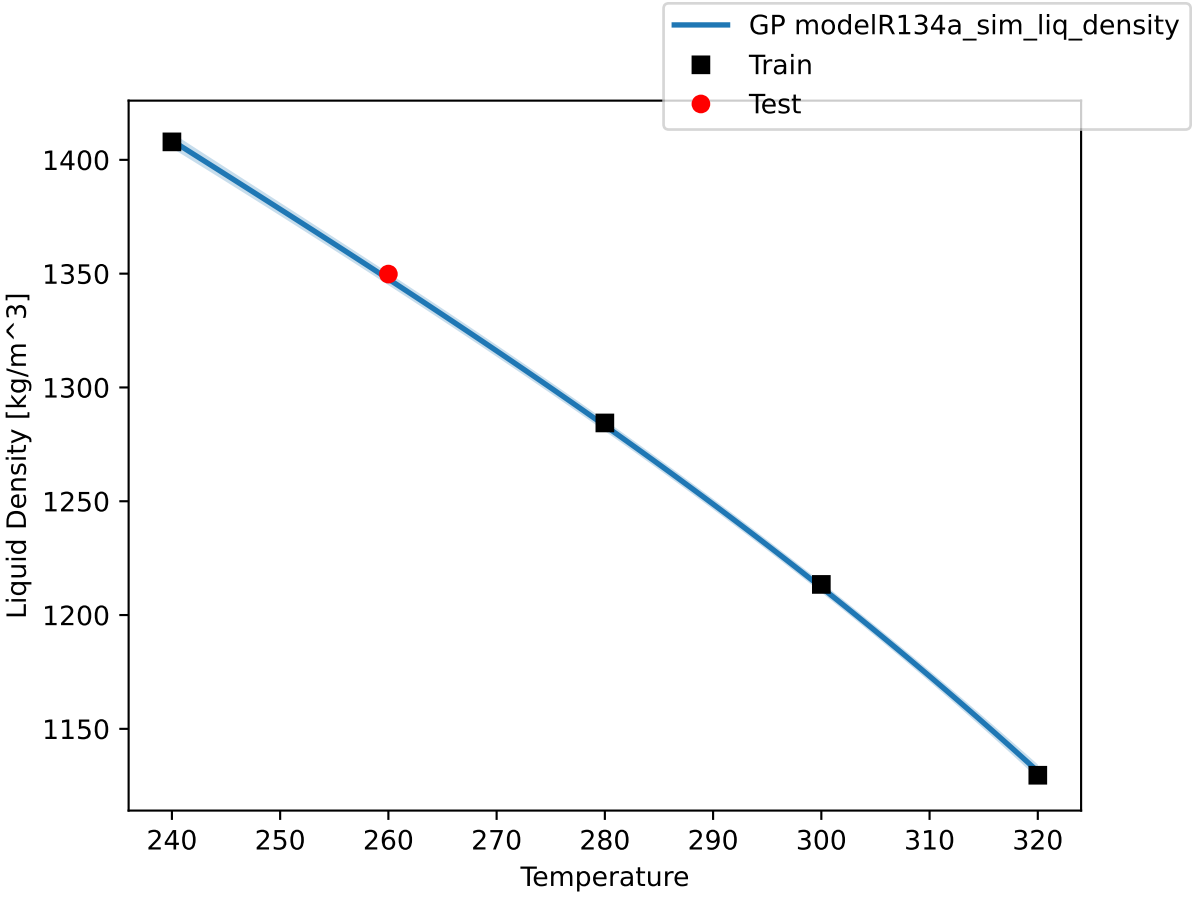
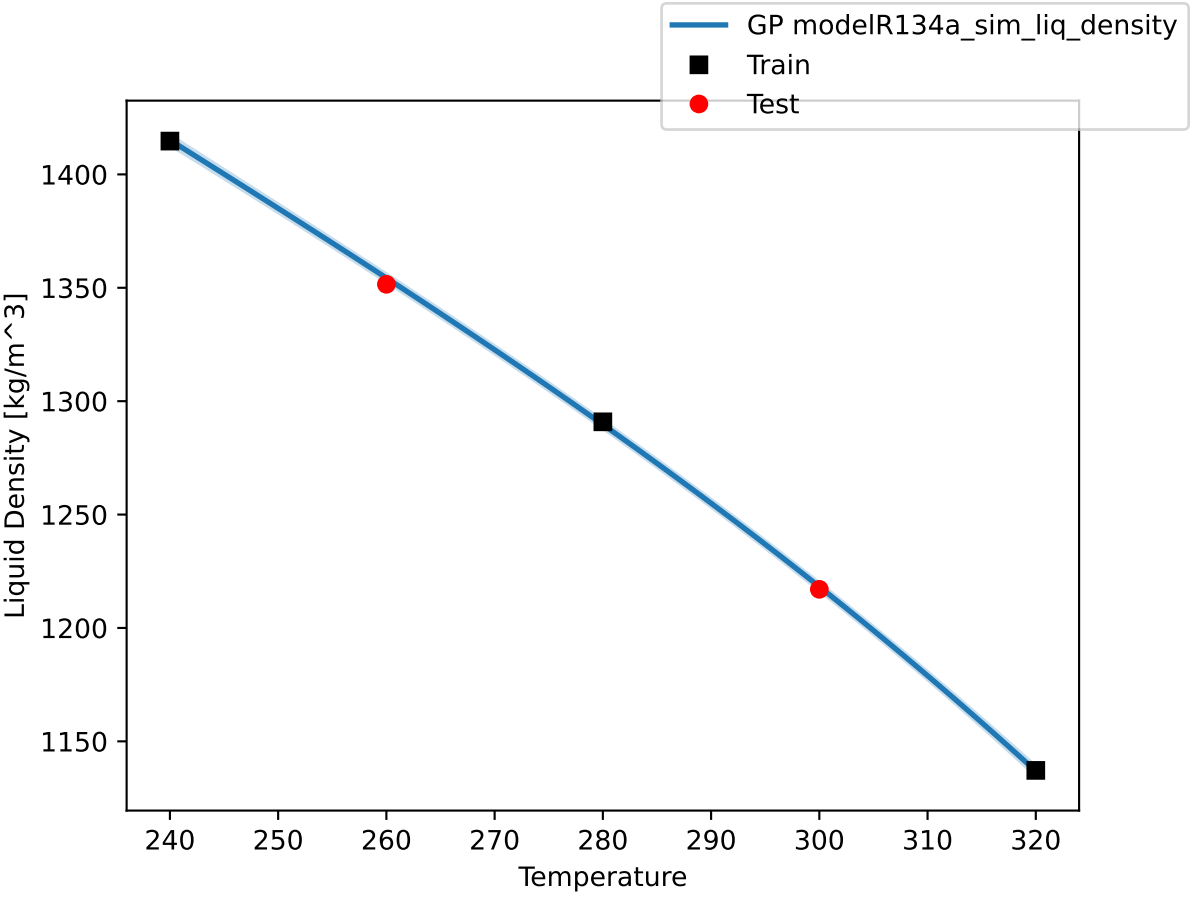
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
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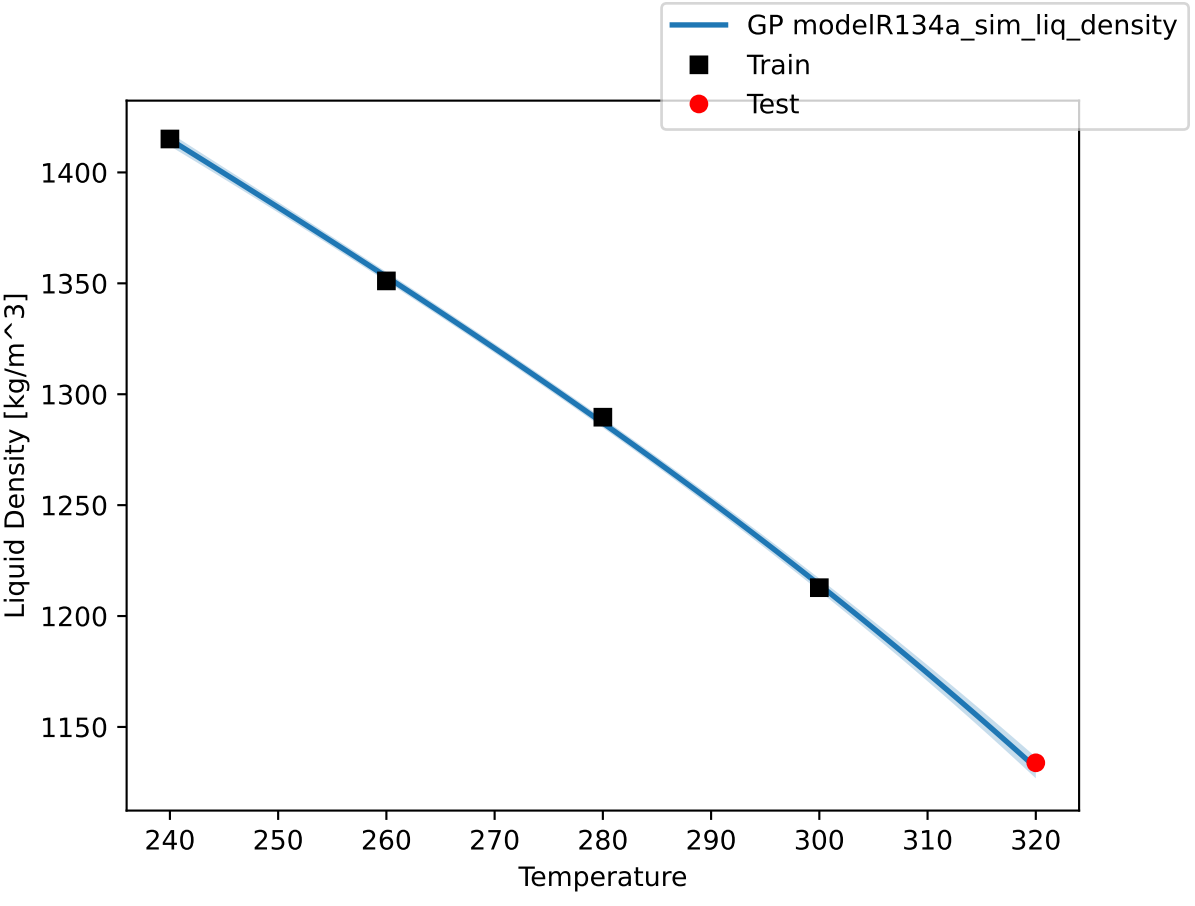
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
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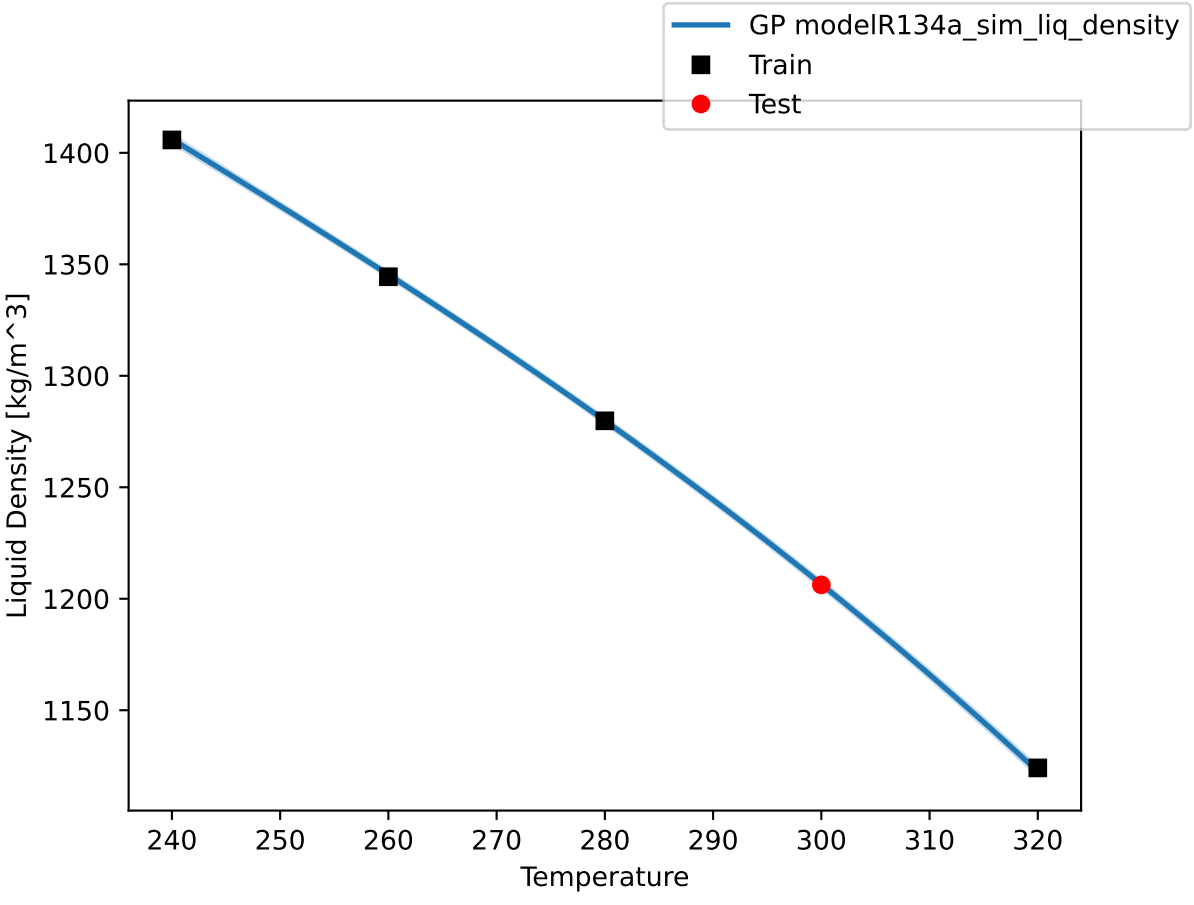
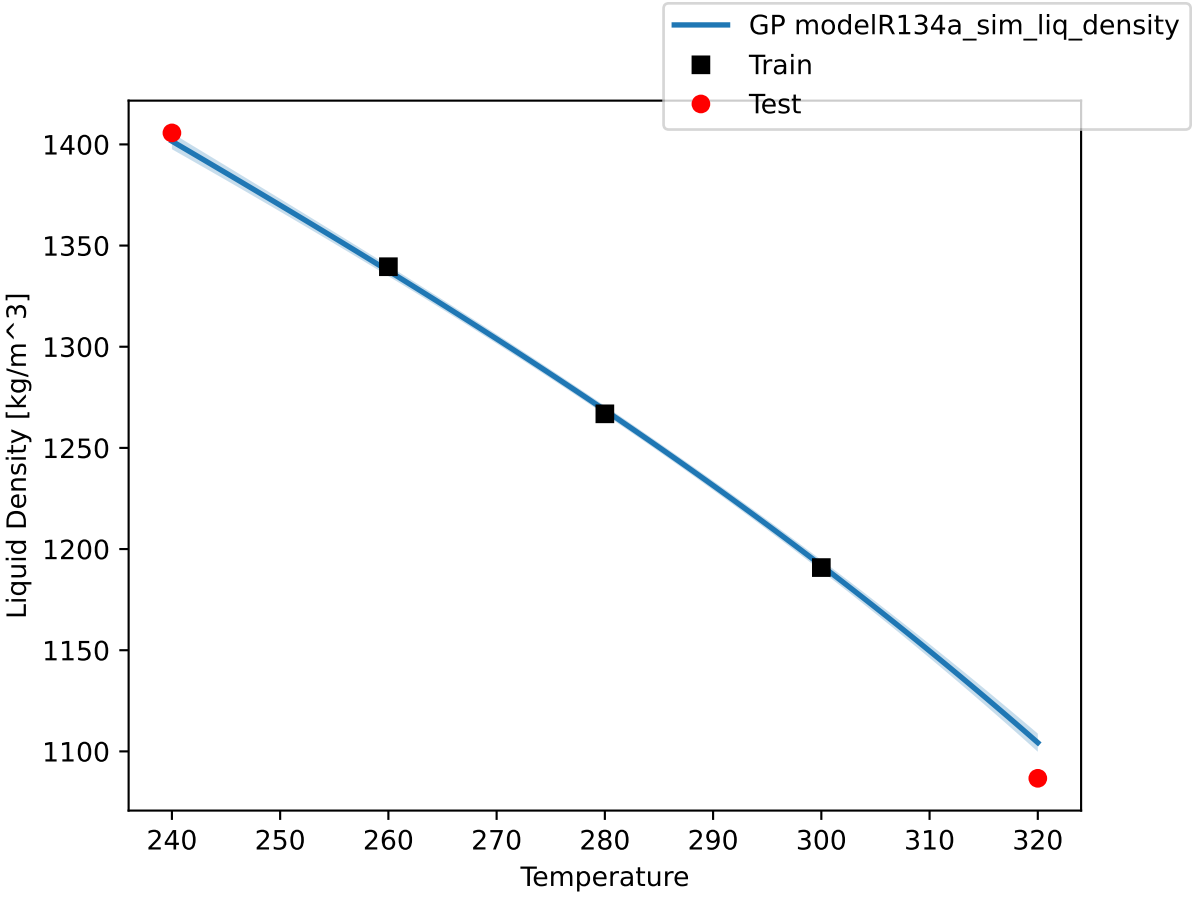
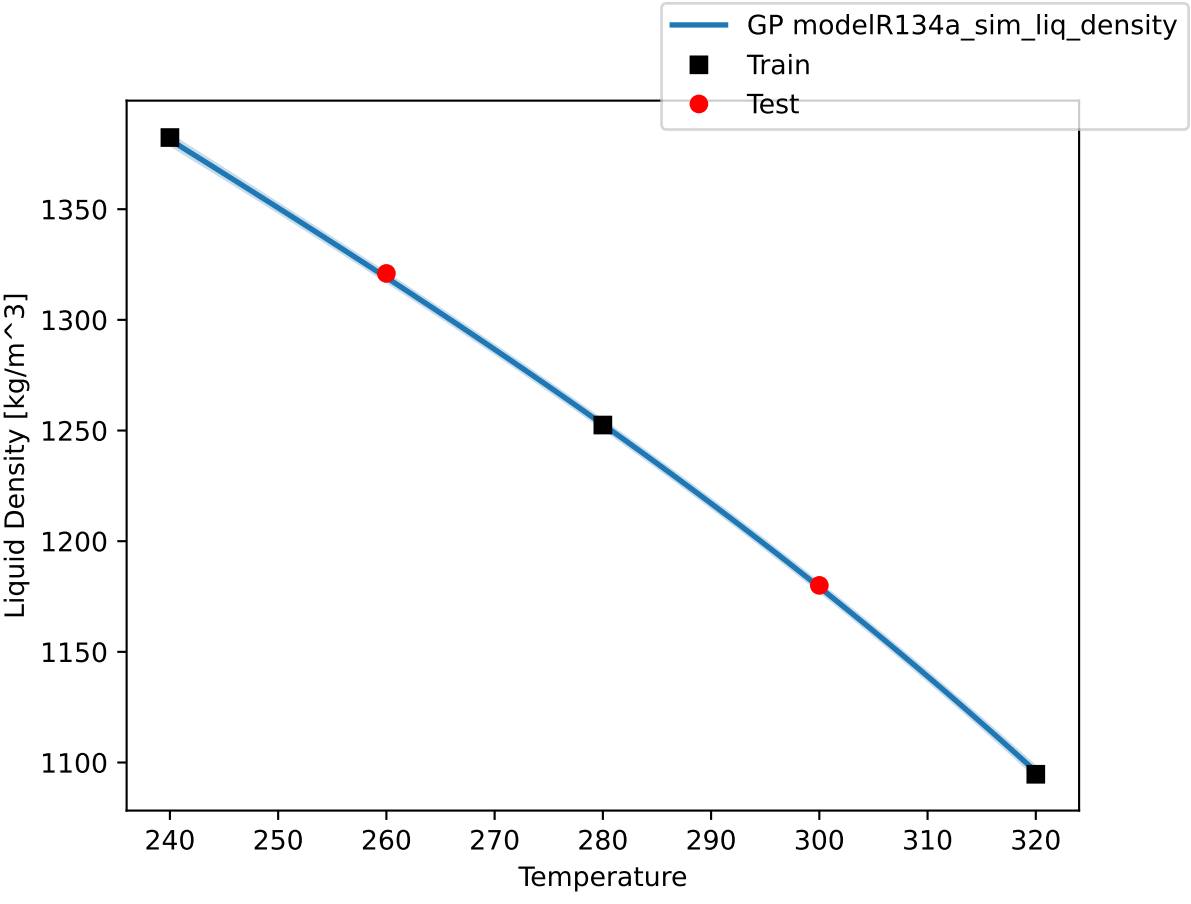
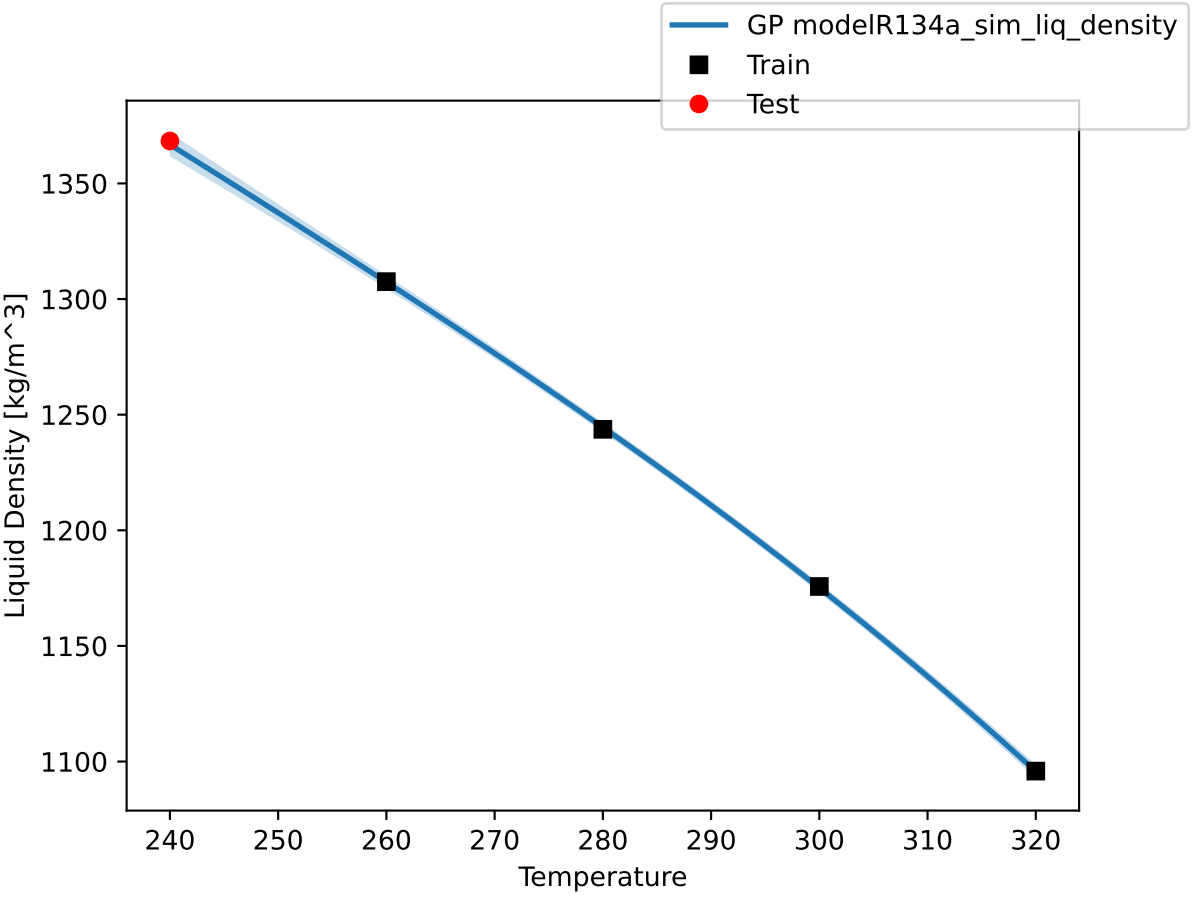
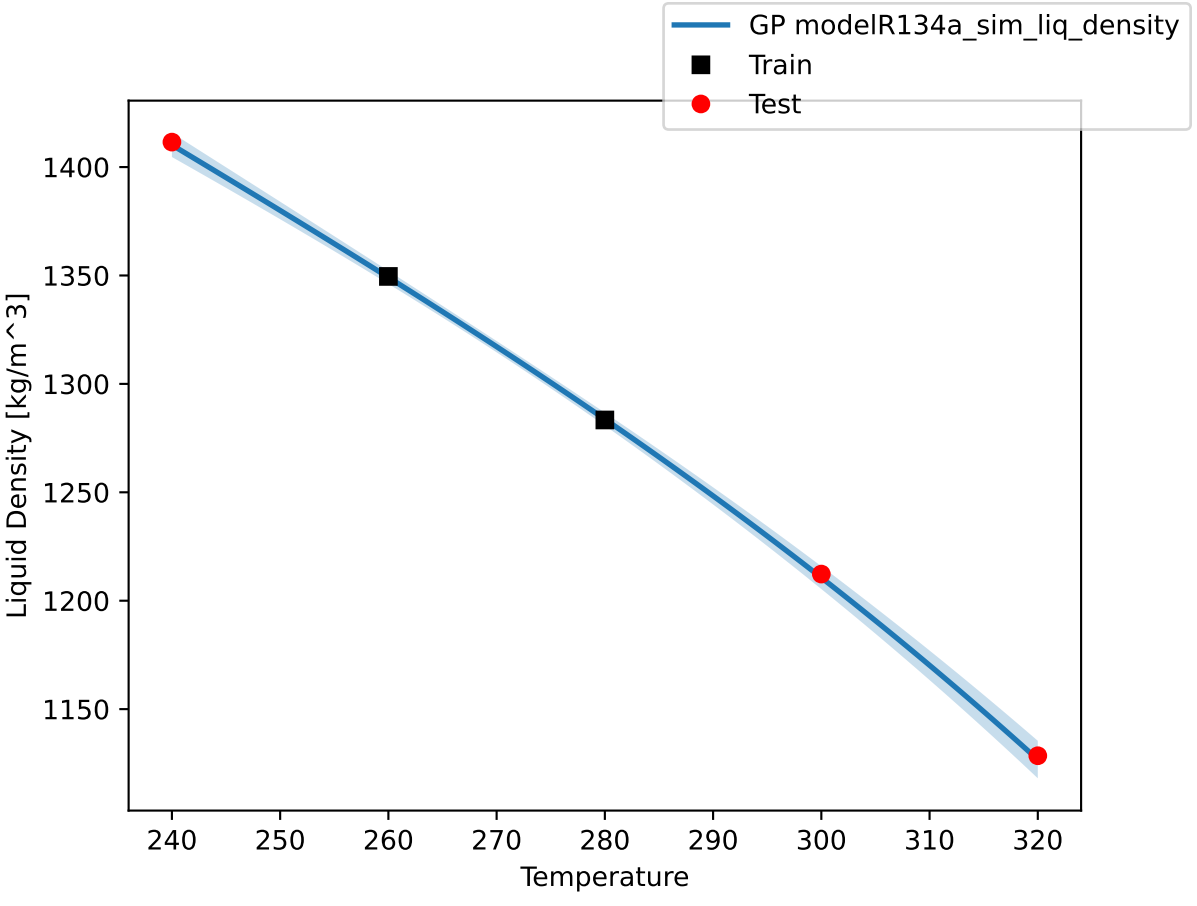
300
310
320
Temperature

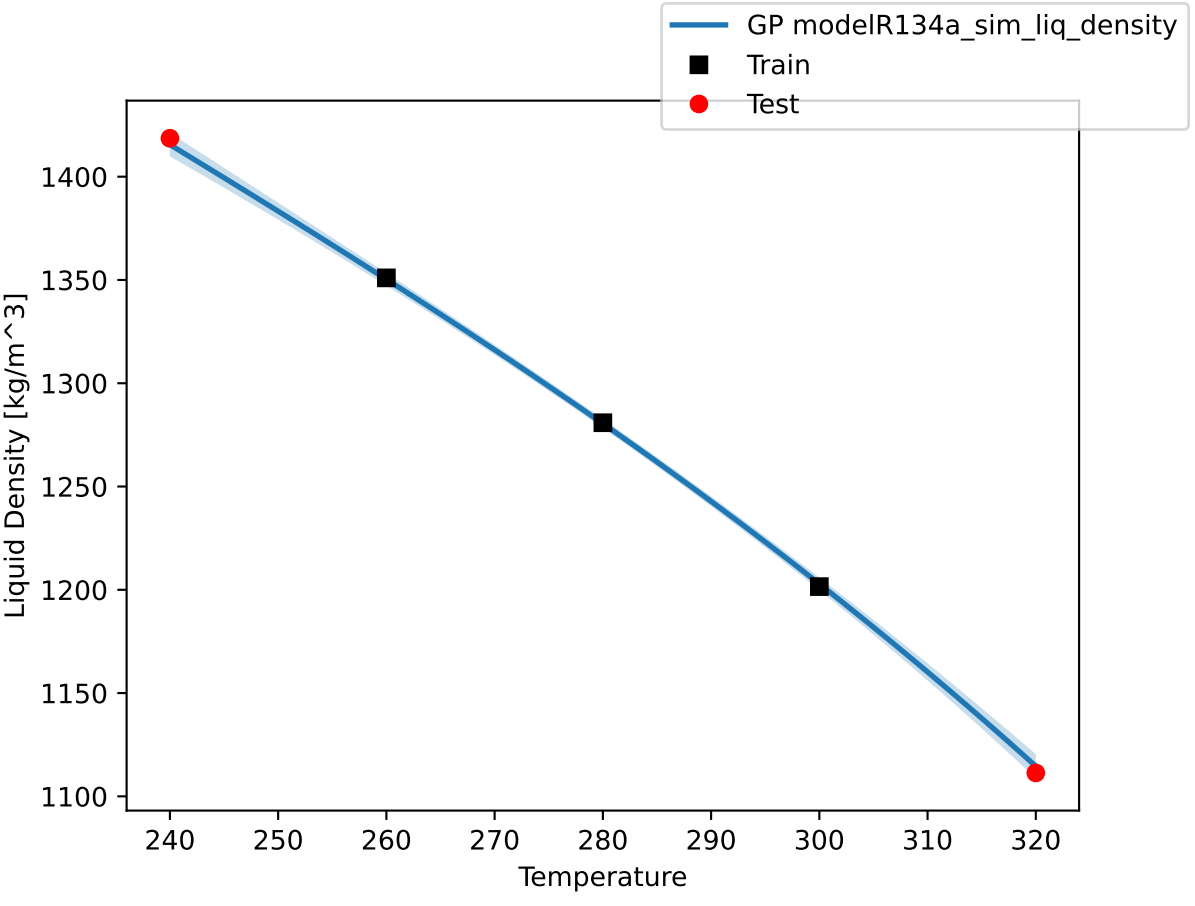

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature

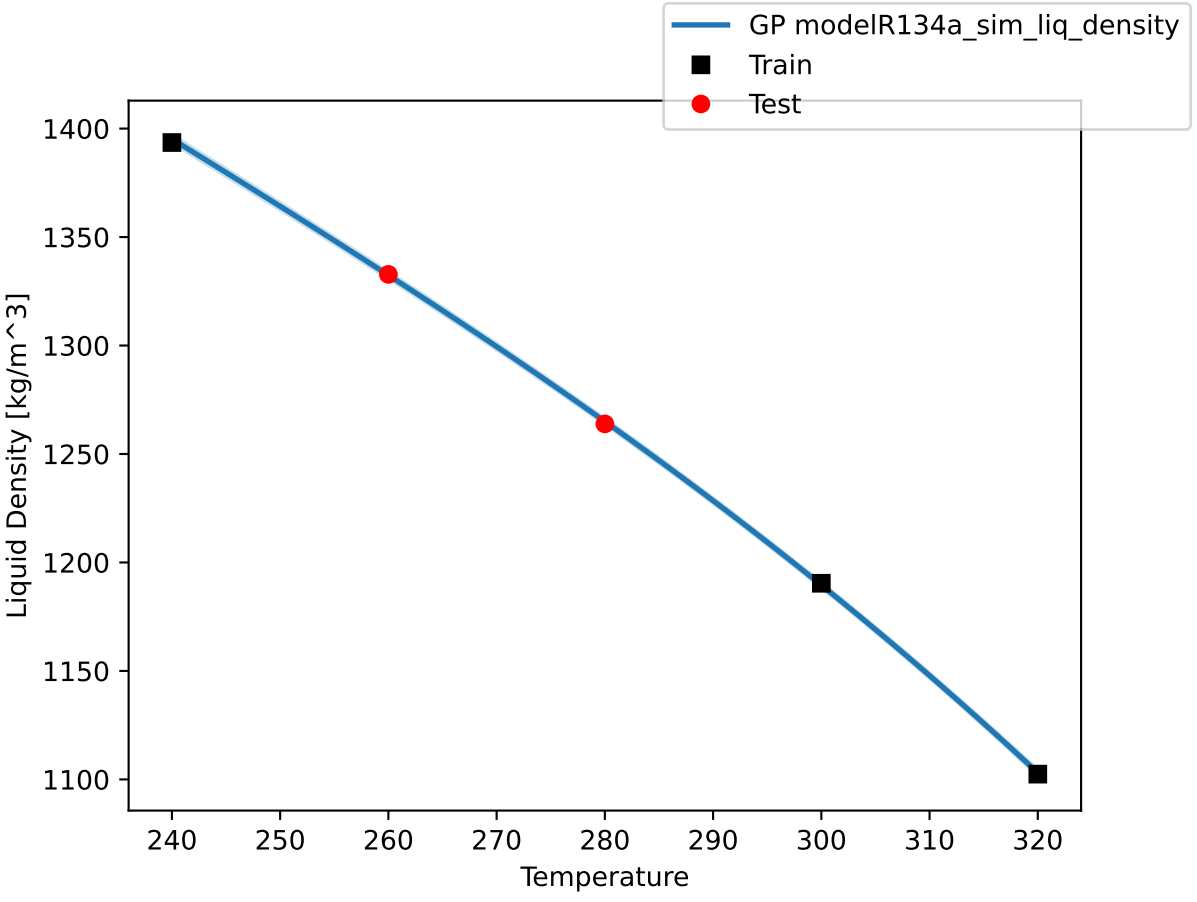

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
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260
270
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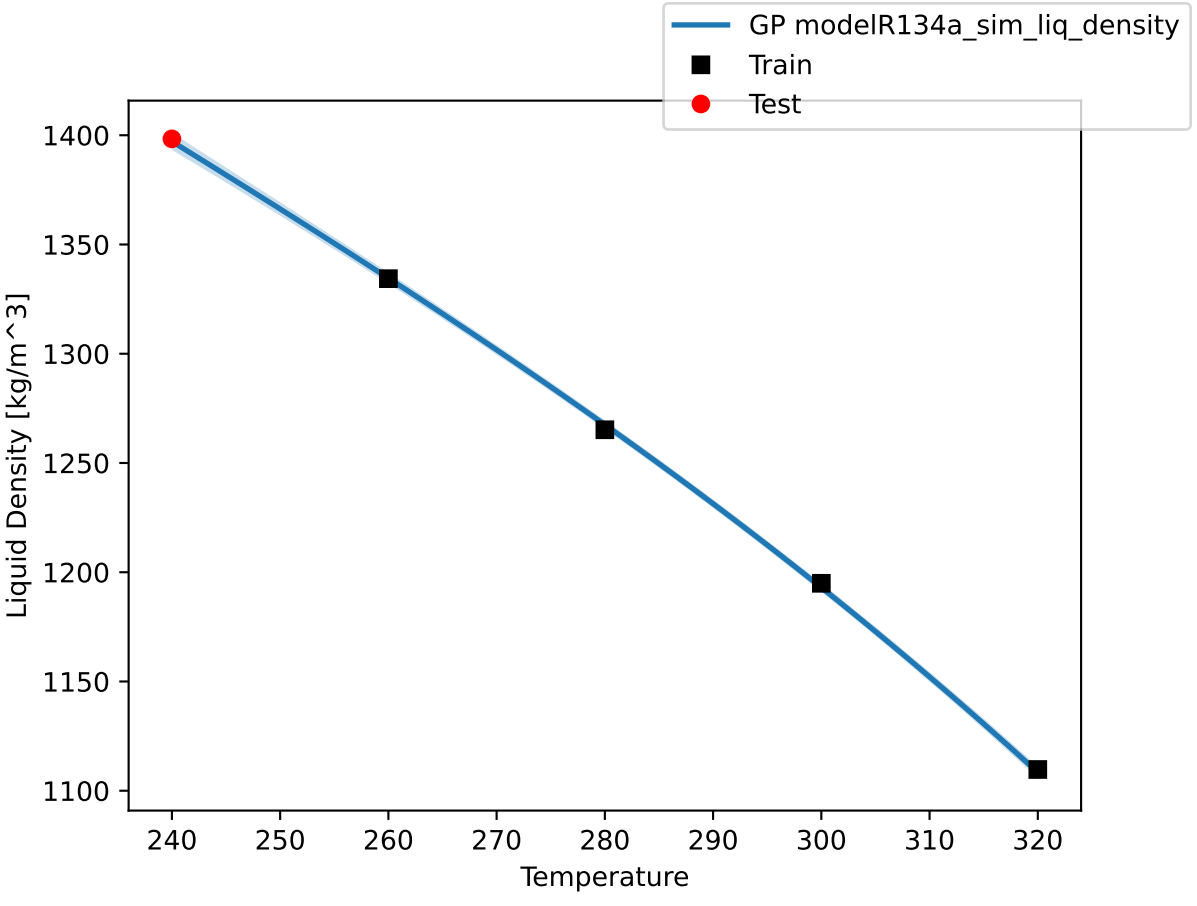
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
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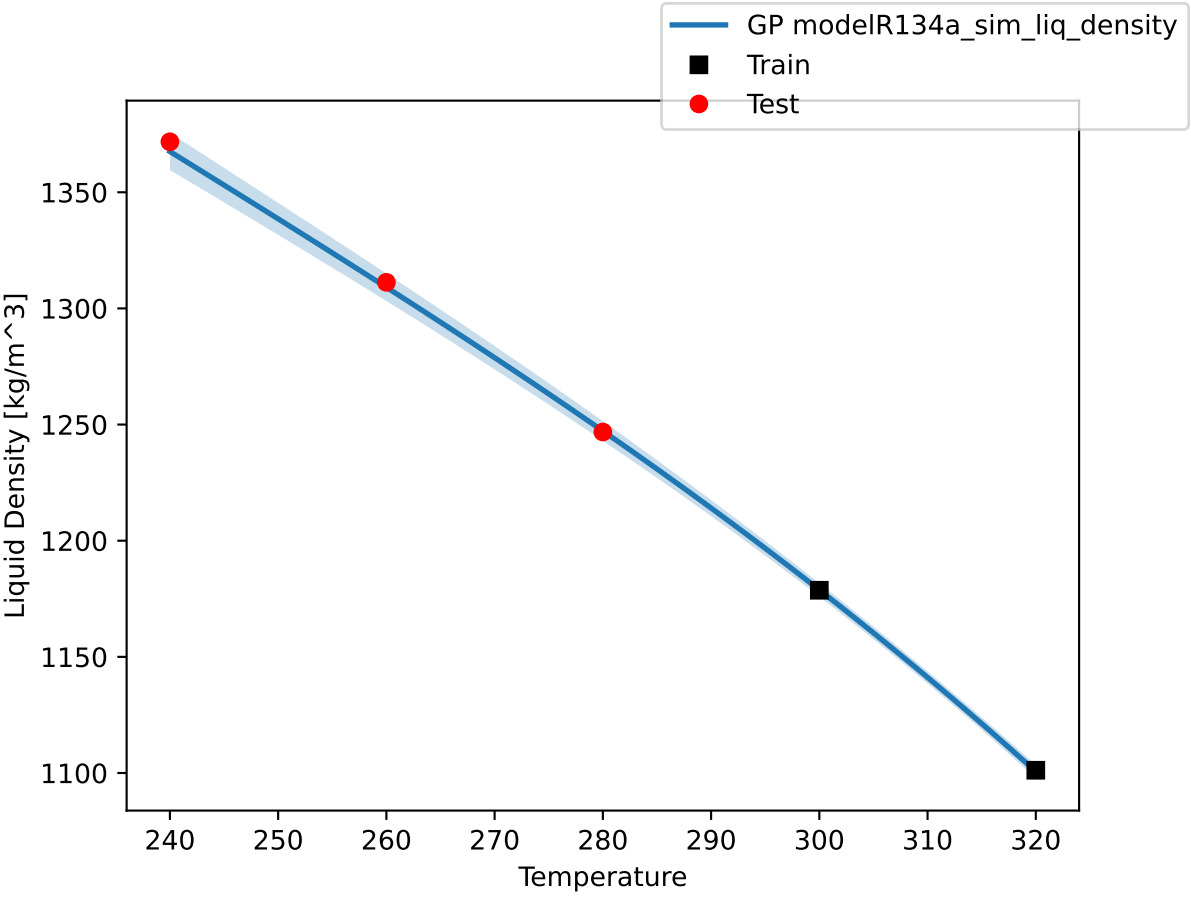
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1350
1300
1250
1200
1150
1100
240
250
260
270
280
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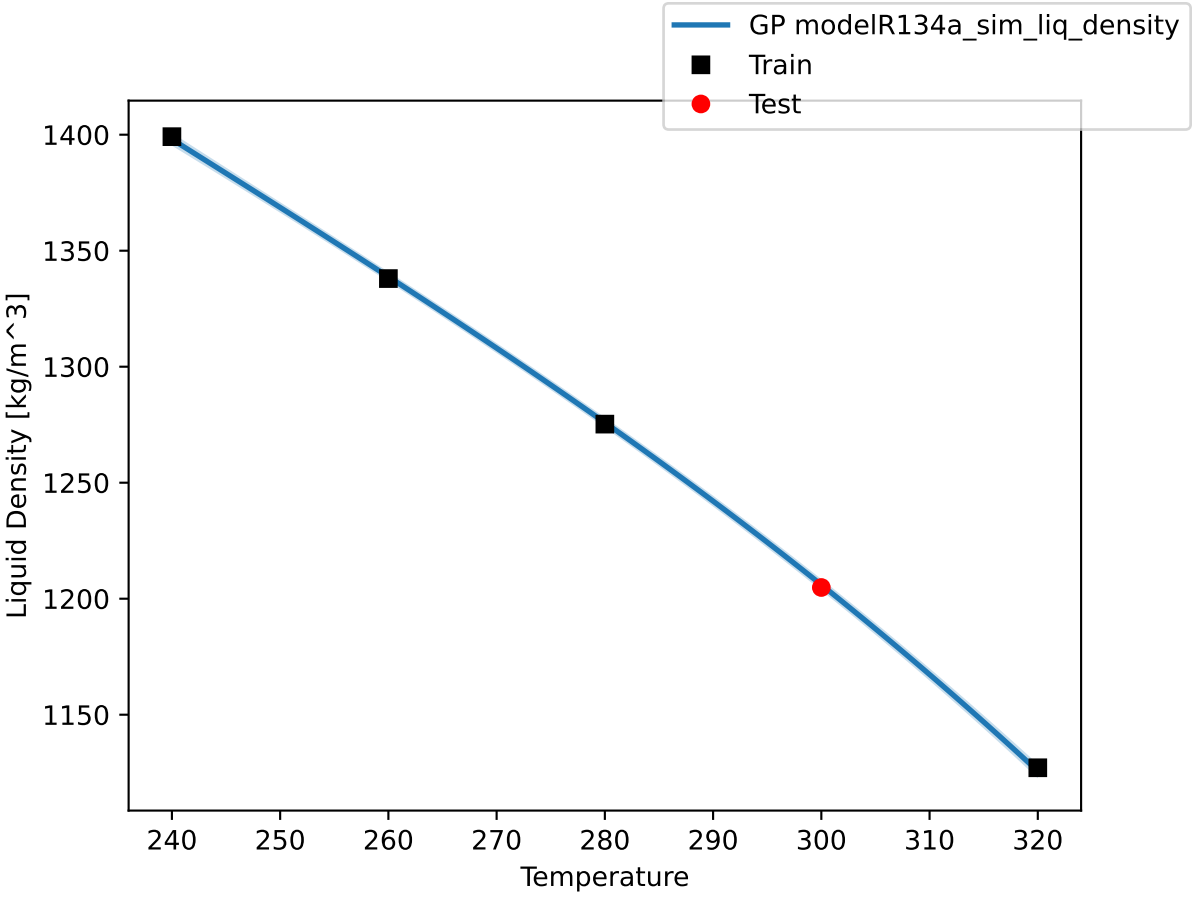
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
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260
270
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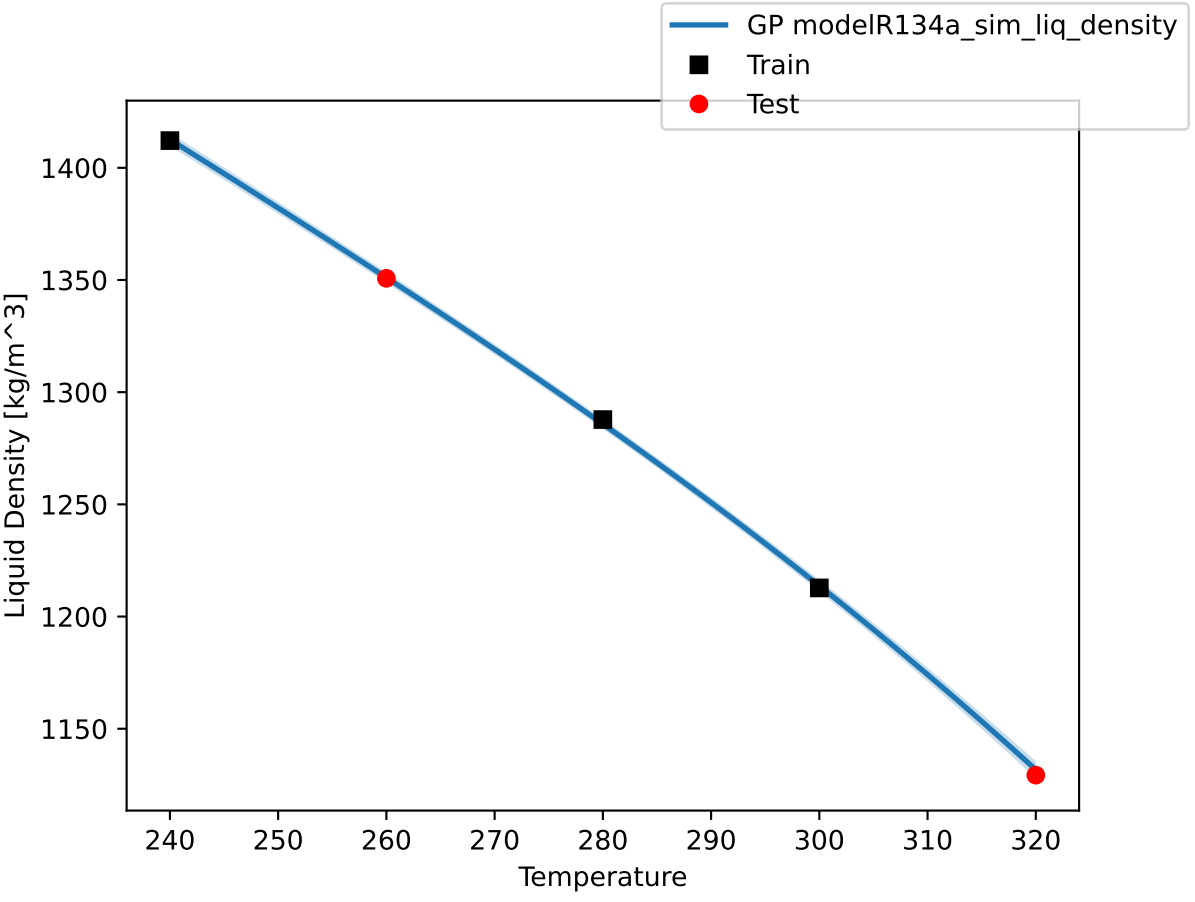
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
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270
280
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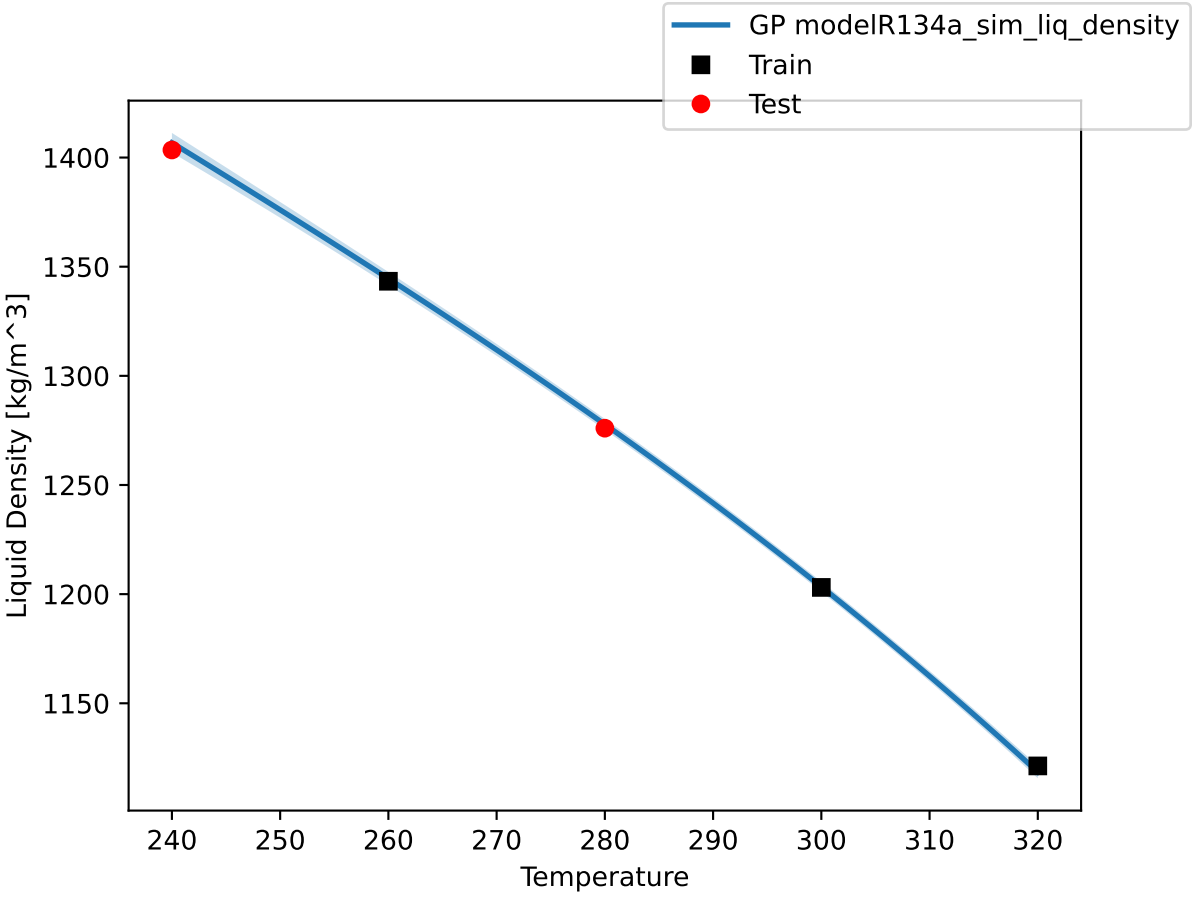
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
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260
270
280
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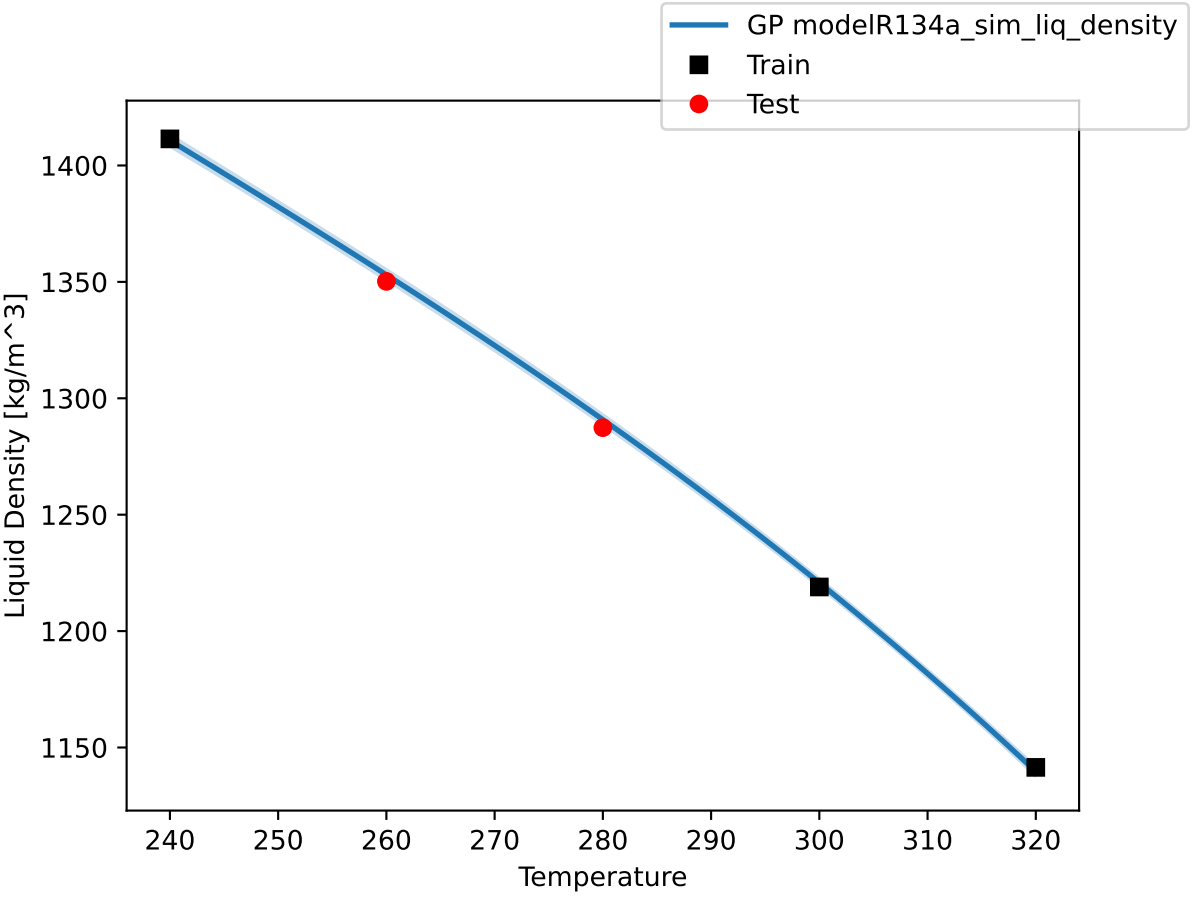
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
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1350
1300
1250
1200
1150
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260
270
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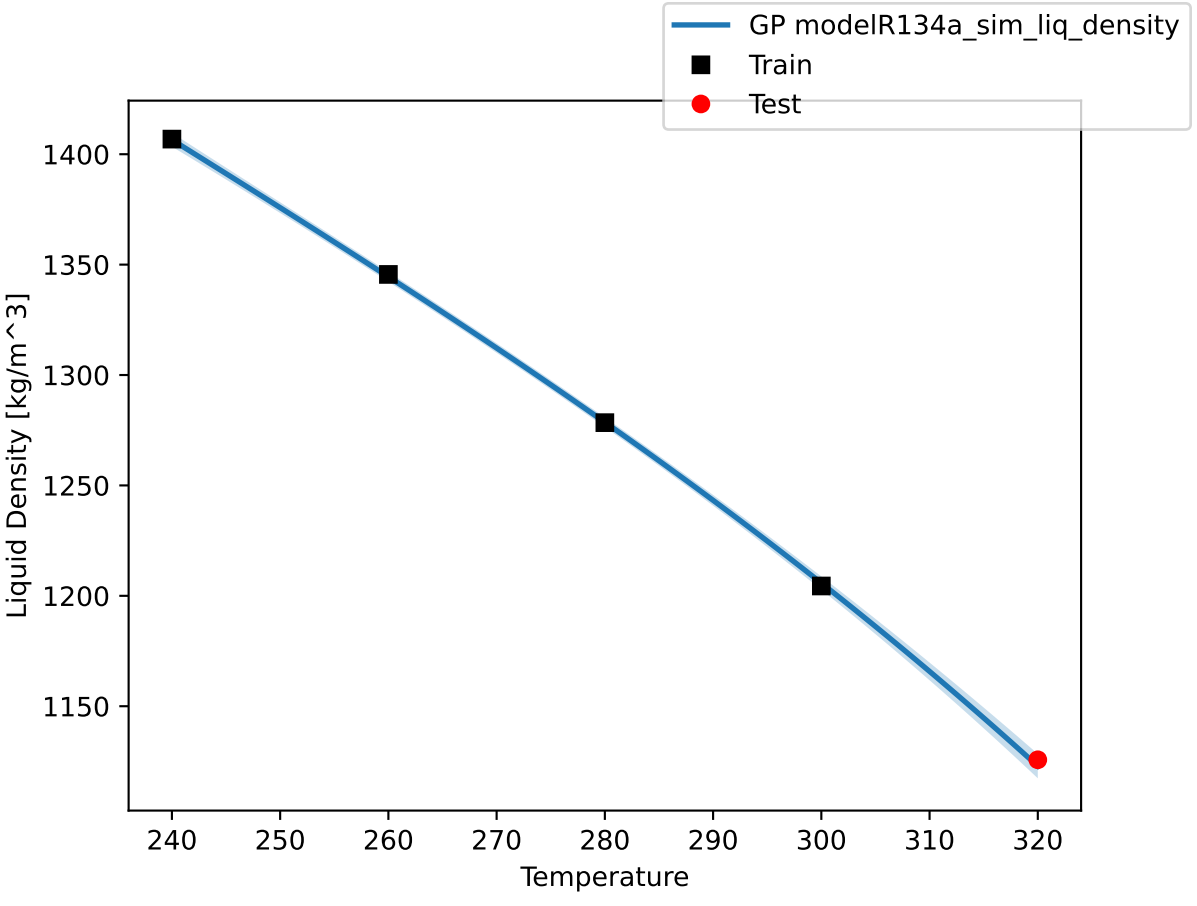
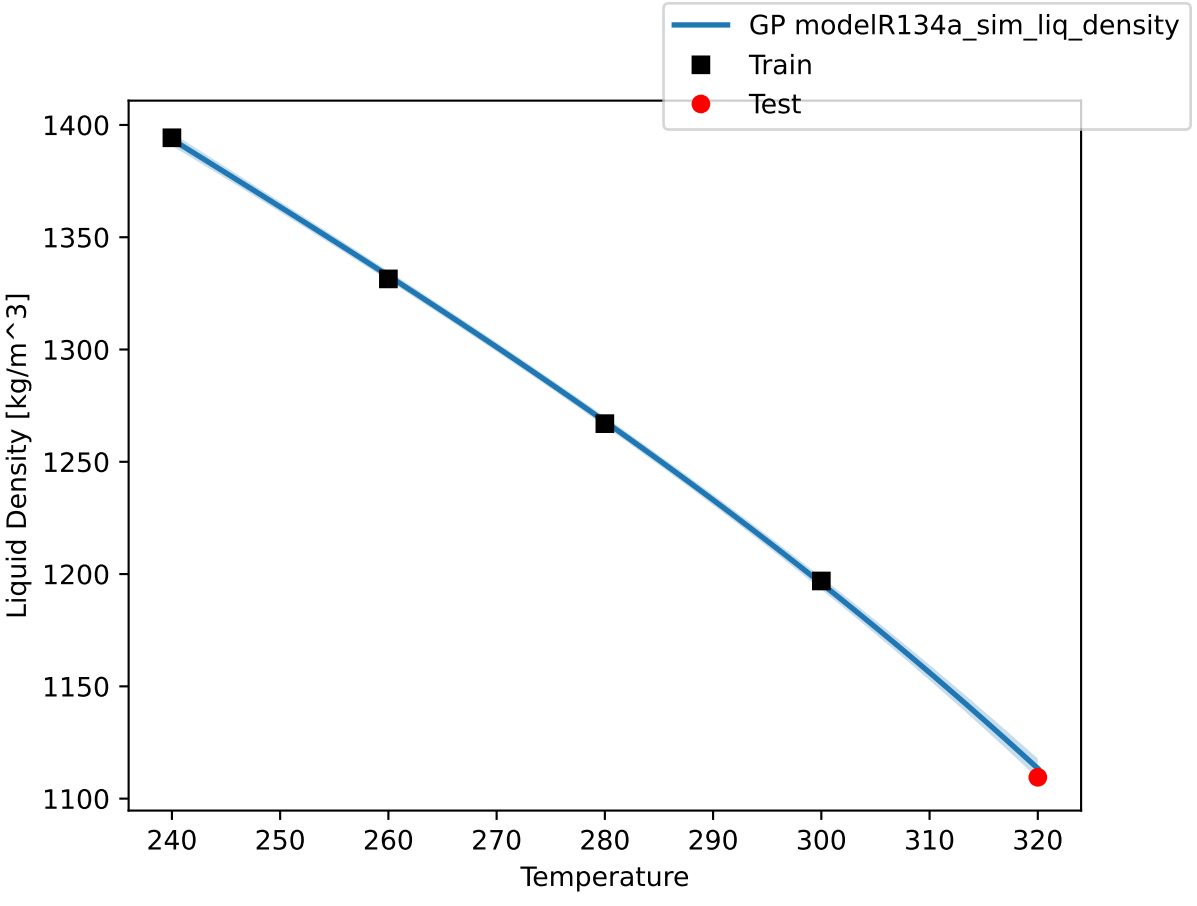
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
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1300
1250
1200
1150
1100
240
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260
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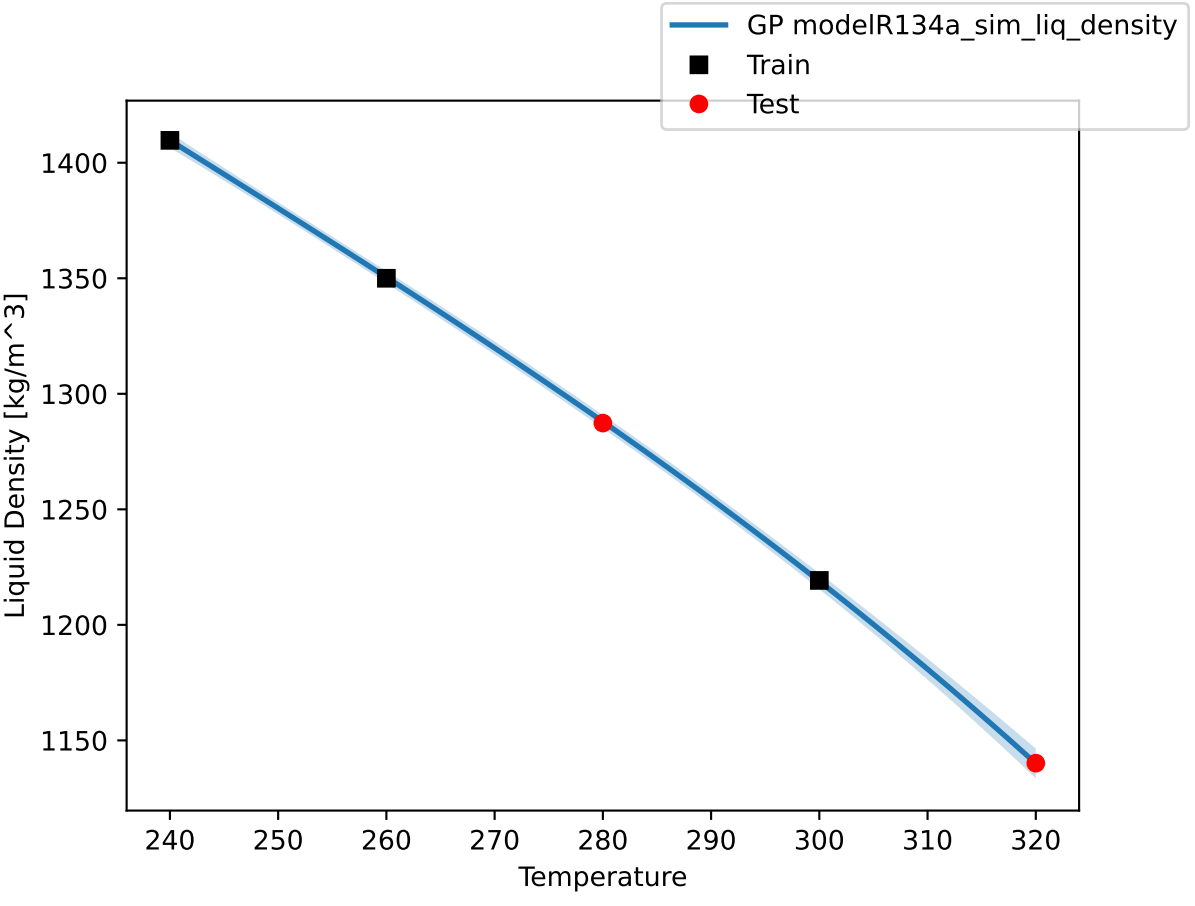
300
310
320
Temperature


GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
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260
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280
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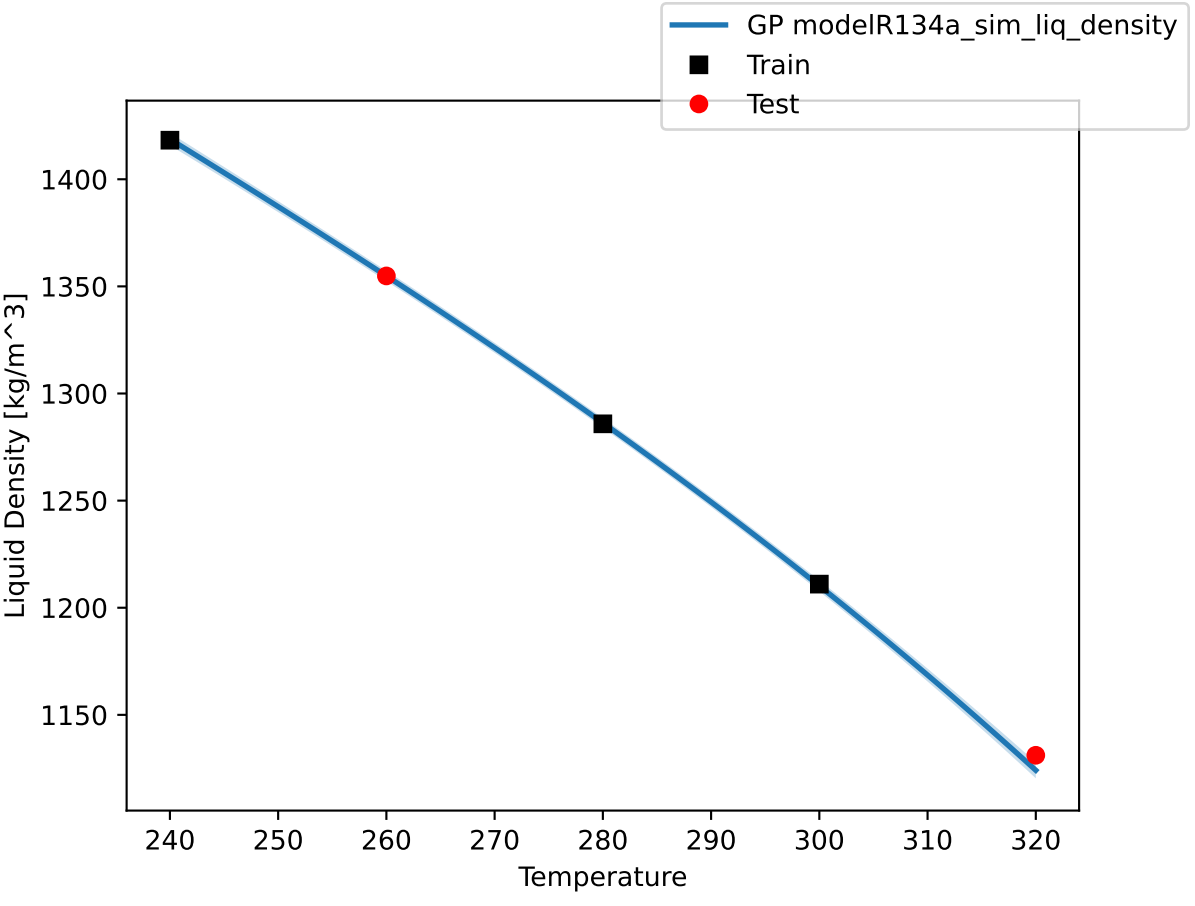
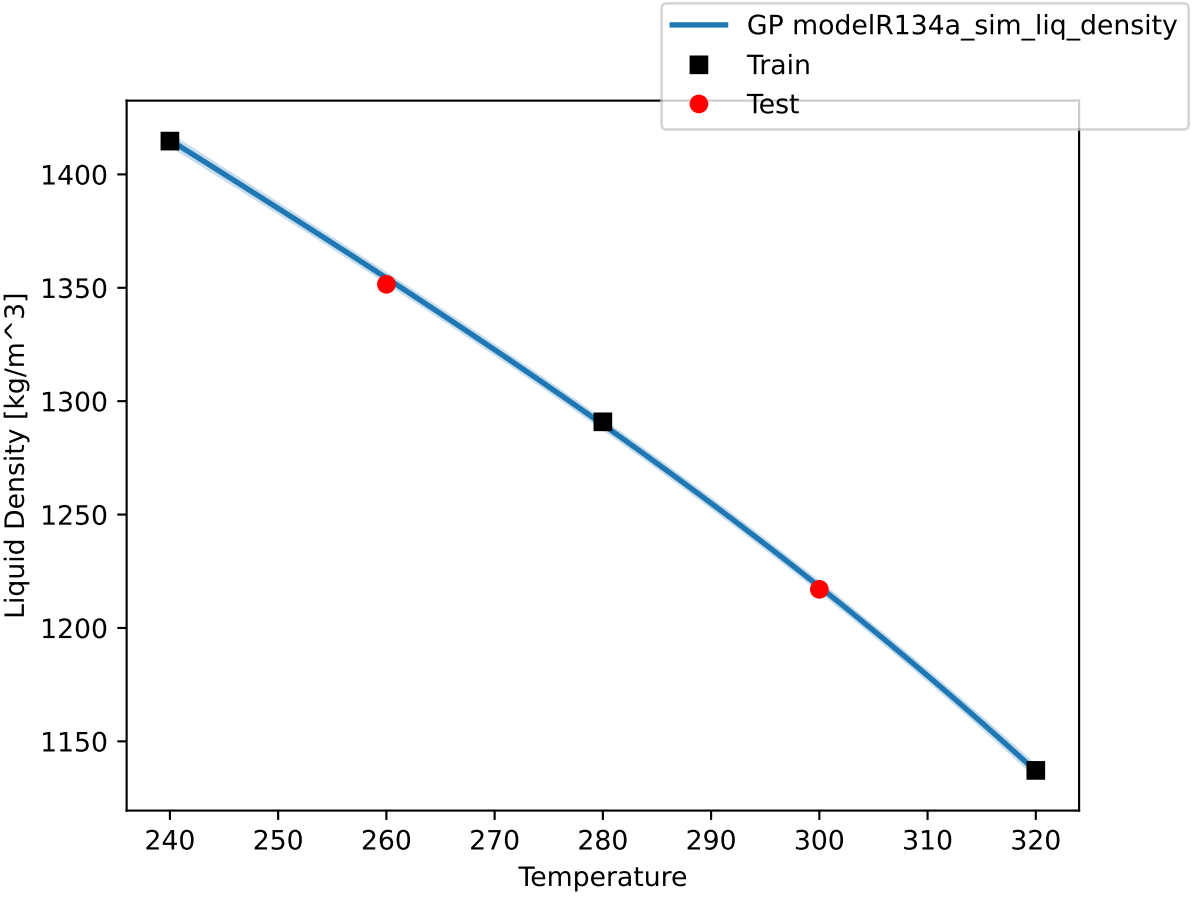
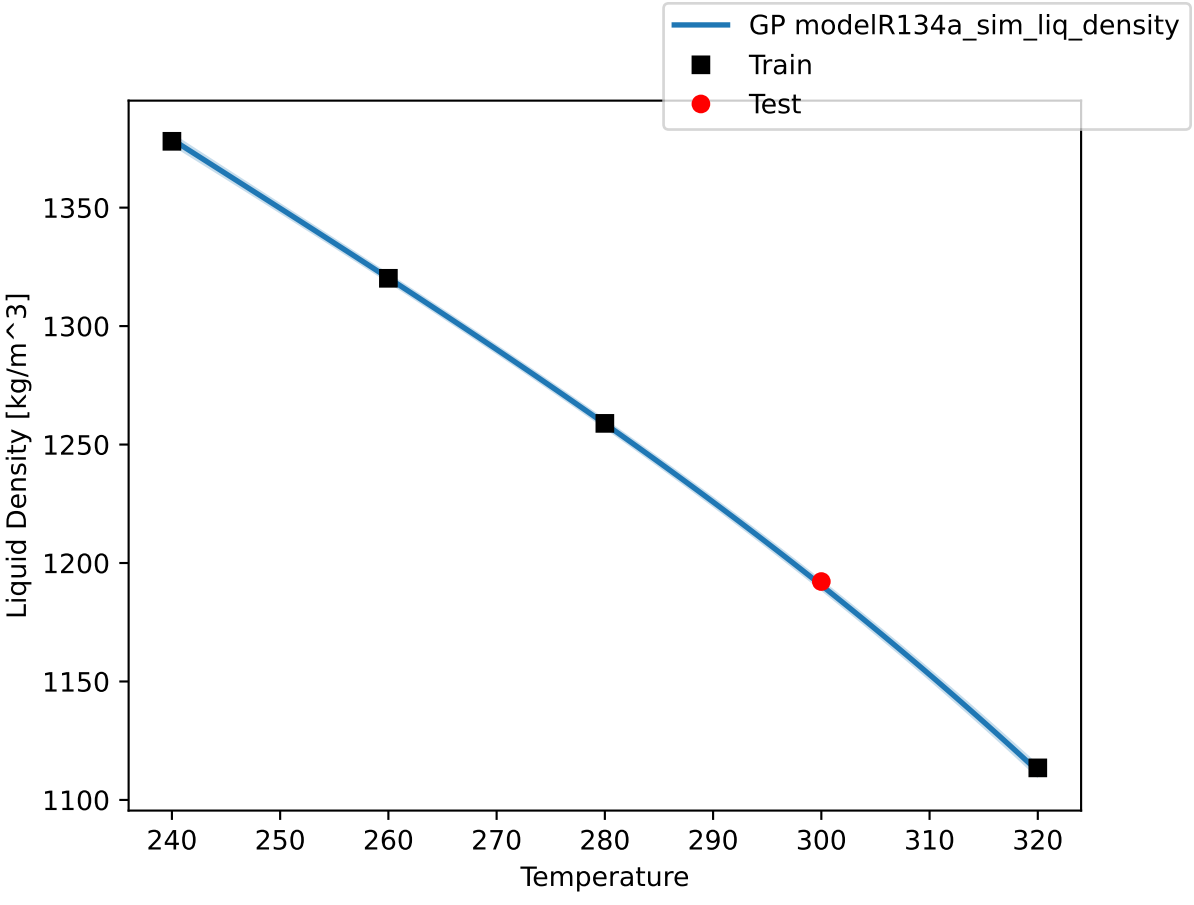
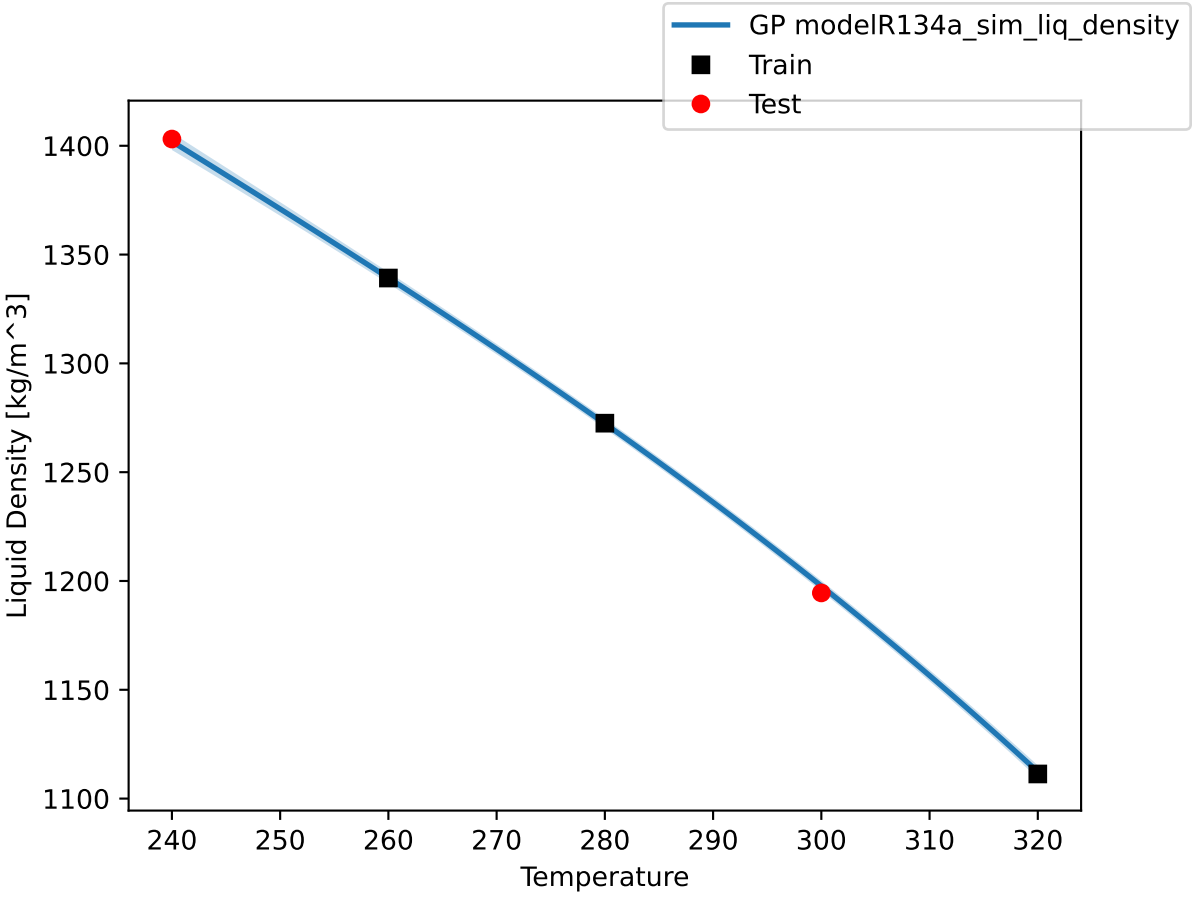
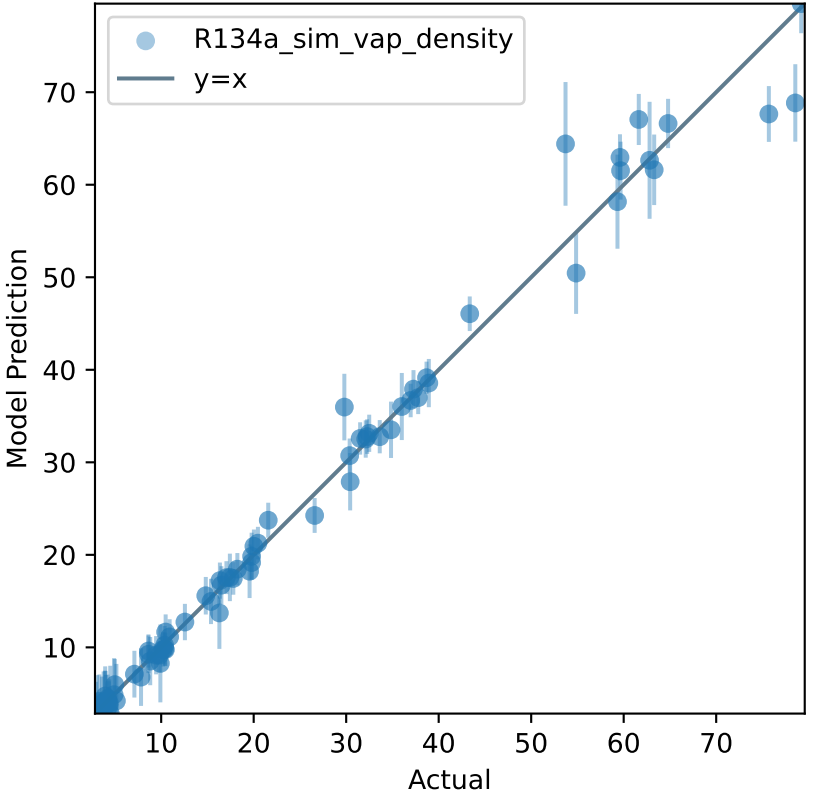
300
310
320
Temperature

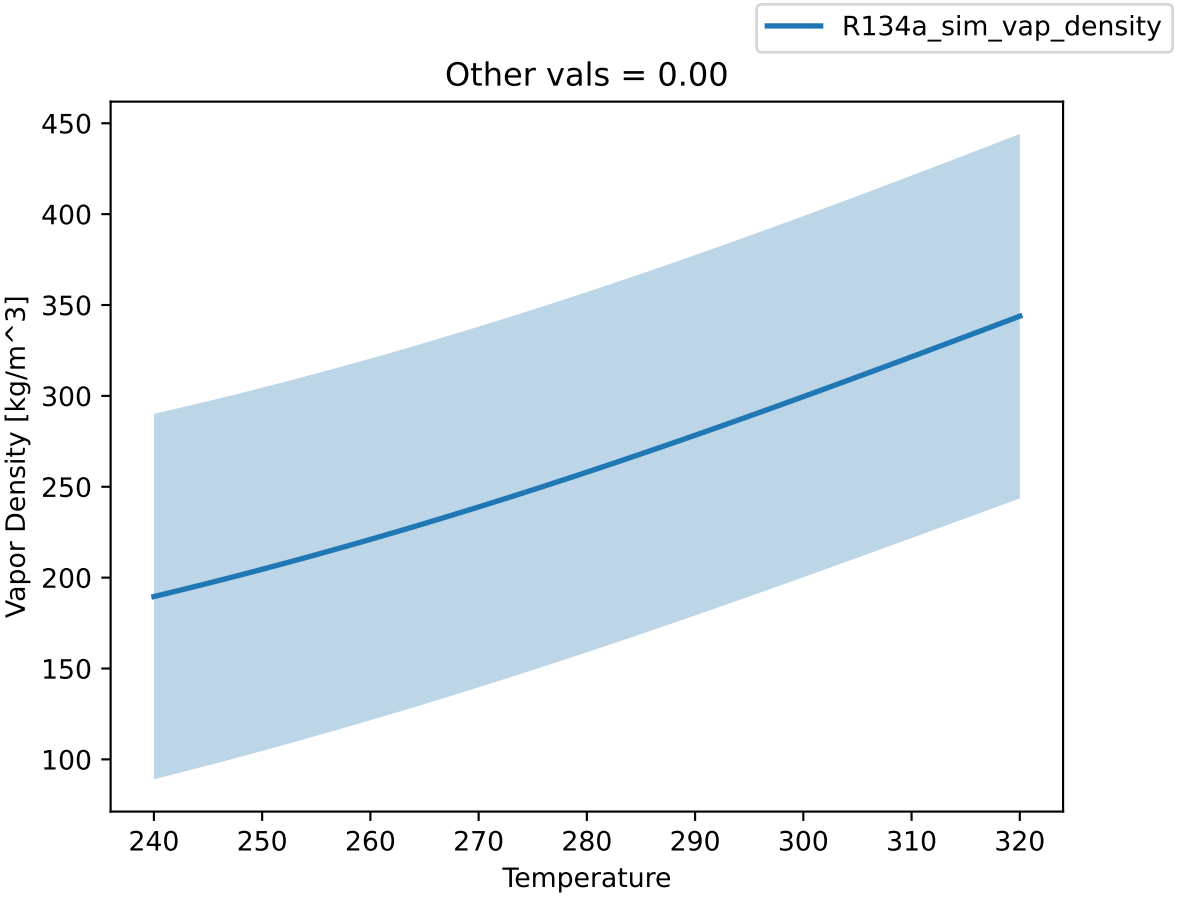

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature

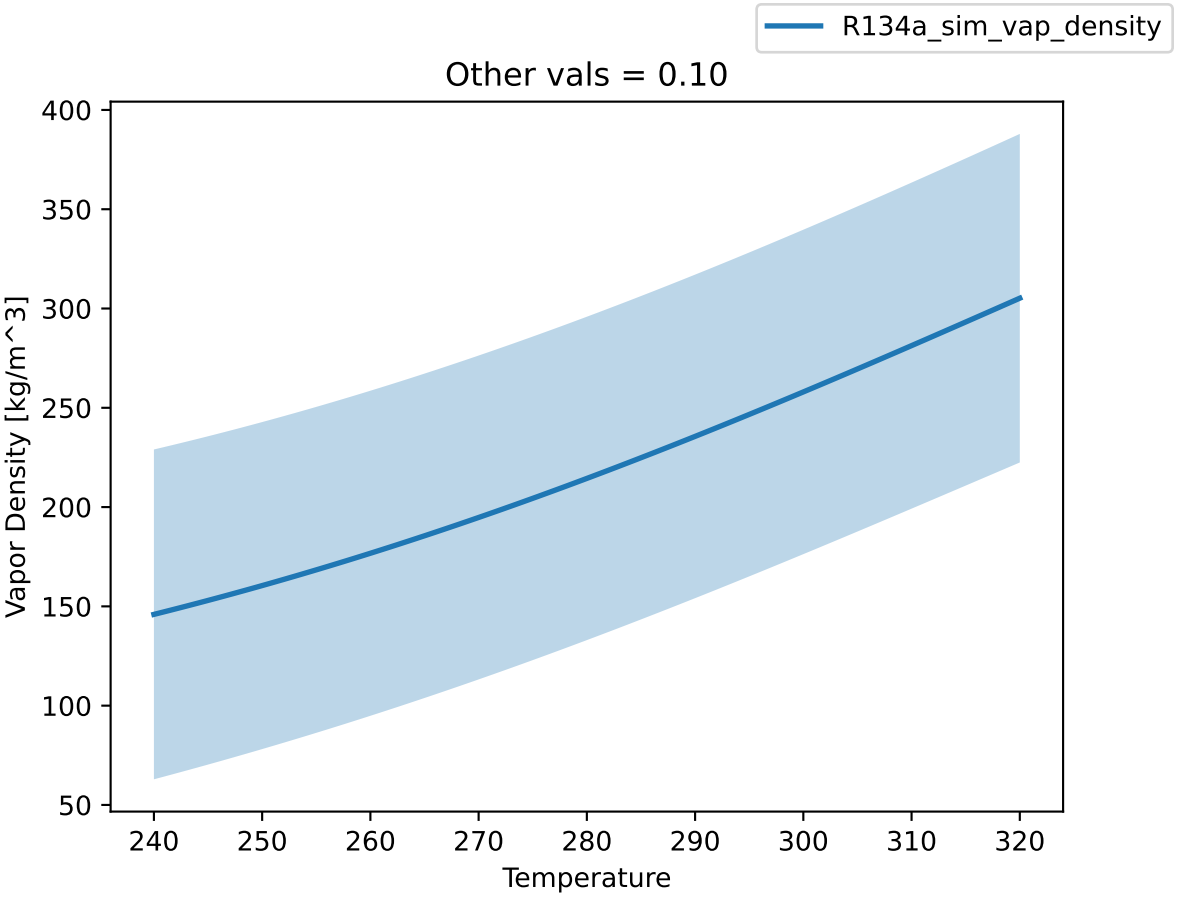

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
240
250
260
270
280
290
300
310
320
Temperature

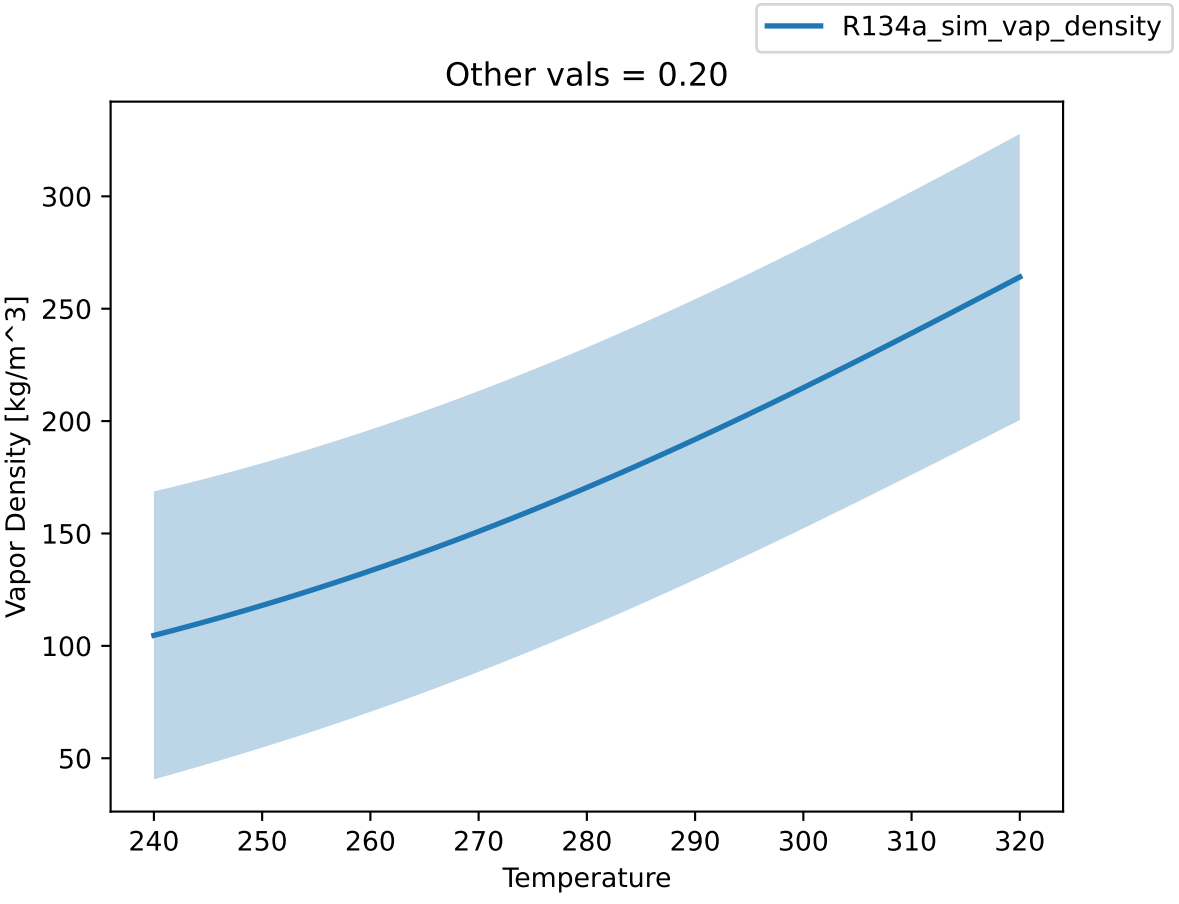

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature

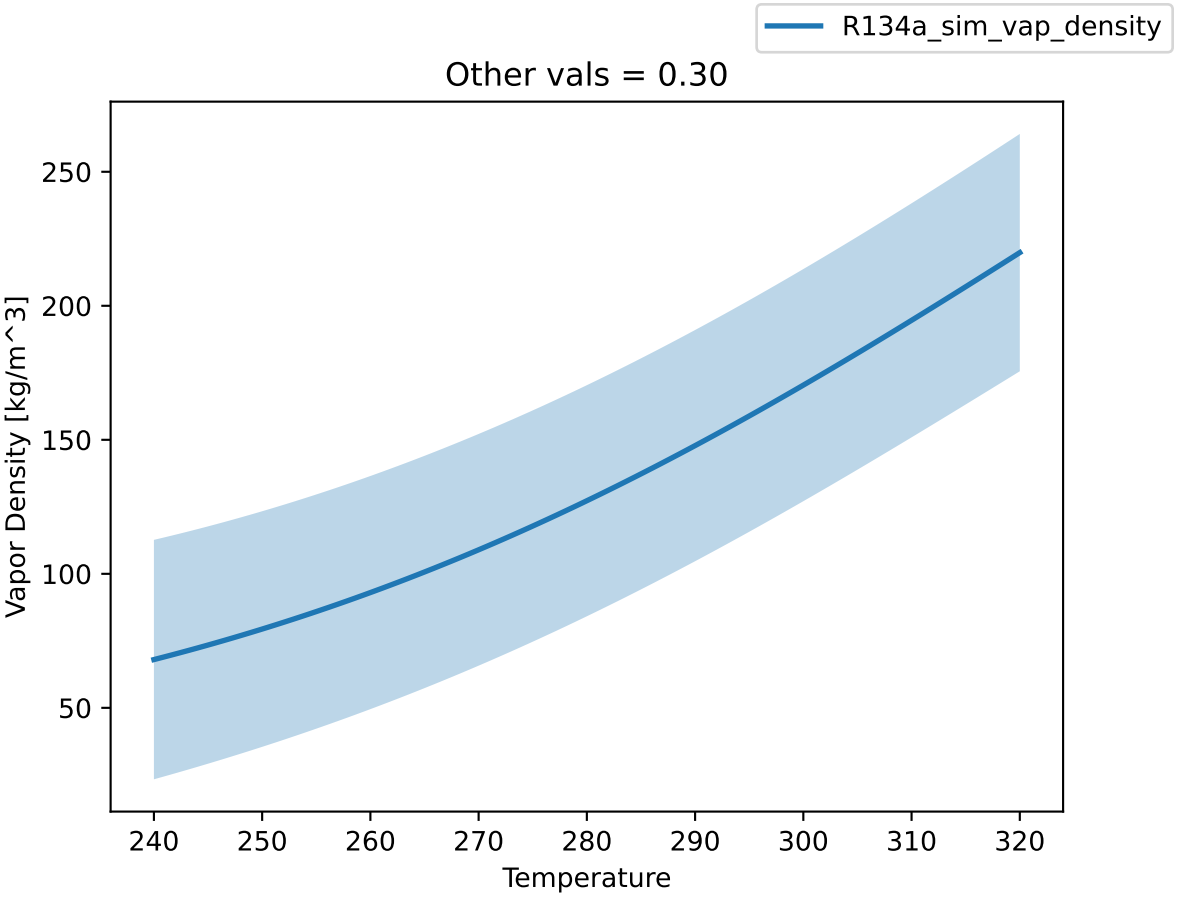

GP modelR134a_sim_liq_density
Train
Test
Liquid Density [kg/m^3]
1400
1350
1300
1250
1200
1150
1100
240
250
260
270
280
290
300
310
320
Temperature


R134a_sim_vap_density
y=x
Model Prediction
Actual
10
20
30
40
50
60
70


R134a_sim_vap_density
Other vals = 0.00
Vapor Density [kg/m^3]
450
400
350
300
250
200
150
100
240
250
260
270
280
290
300
310
320
Temperature


R134a_sim_vap_density
Other vals = 0.10
Vapor Density [kg/m^3]
400
350
300
250
200
150
100
50
240
250
260
270
280
290
300
310
320
Temperature


R134a_sim_vap_density
Other vals = 0.20
Vapor Density [kg/m^3]
300
250
200
150
100
50
240
250
260
270
280
290
300
310
320
Temperature


R134a_sim_vap_density
Other vals = 0.30
Vapor Density [kg/m^3]
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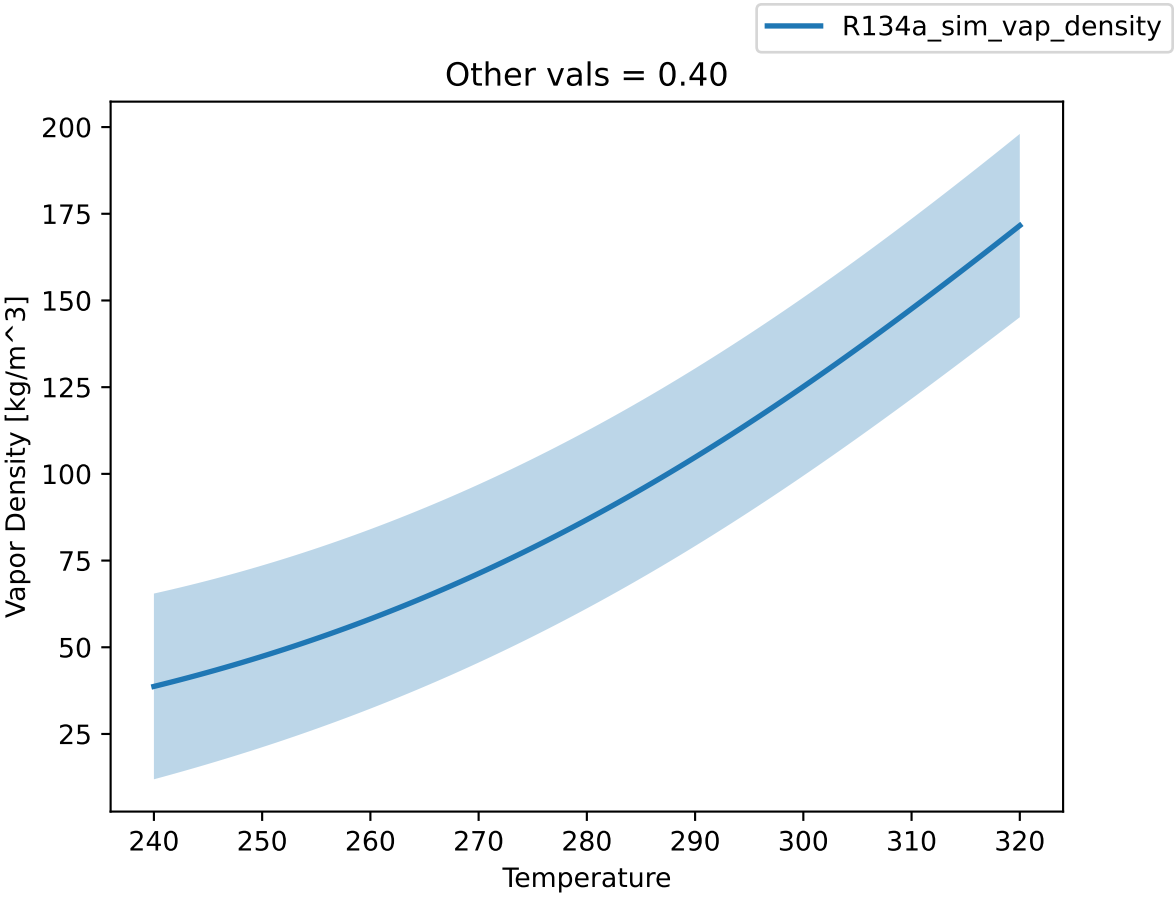
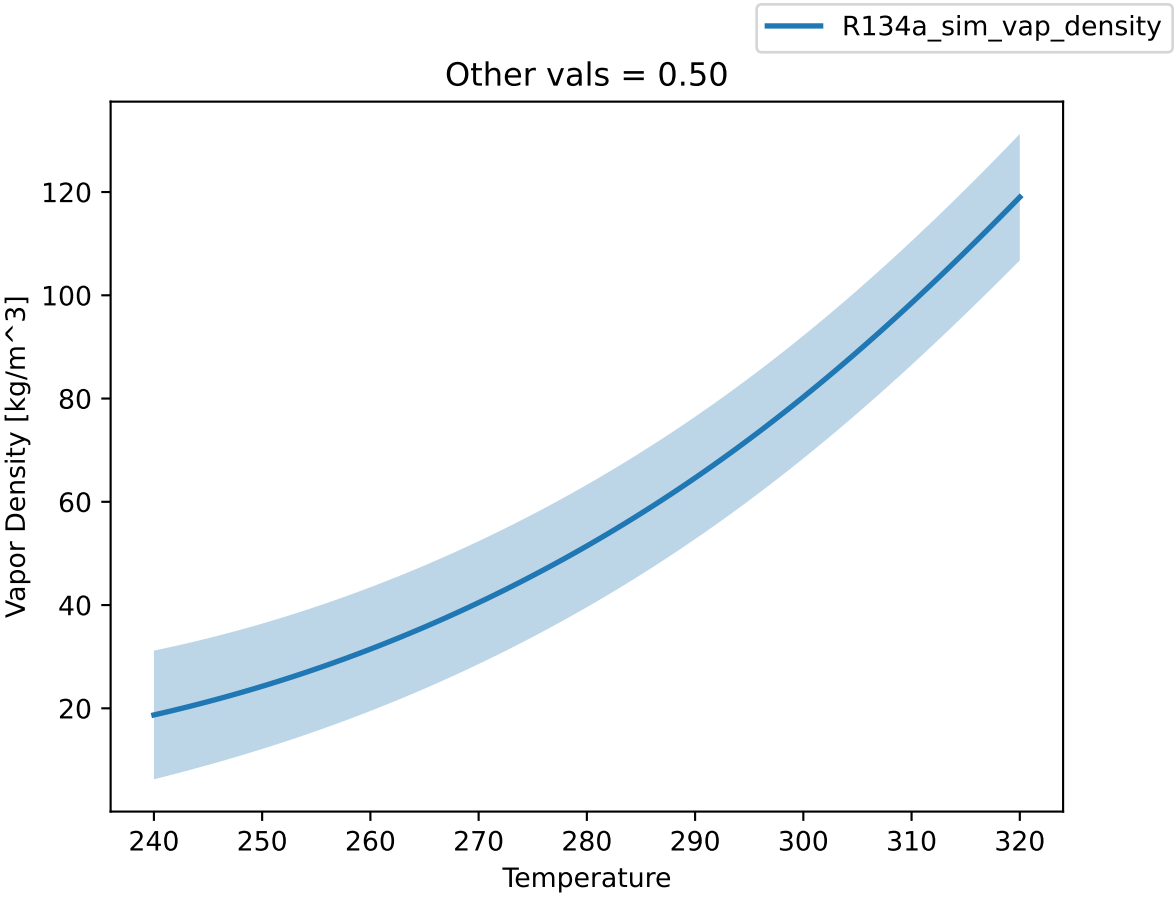
200
150
100
50
240
250
260
270
280
290
300
310
320
Temperature


R134a_sim_vap_density
Other vals = 0.40
Vapor Density [kg/m^3]
200
175
150
125
100
75
50
25
240
250
260
270
280
290
300
310
320
Temperature


R134a_sim_vap_density
Other vals = 0.50
Vapor Density [kg/m^3]
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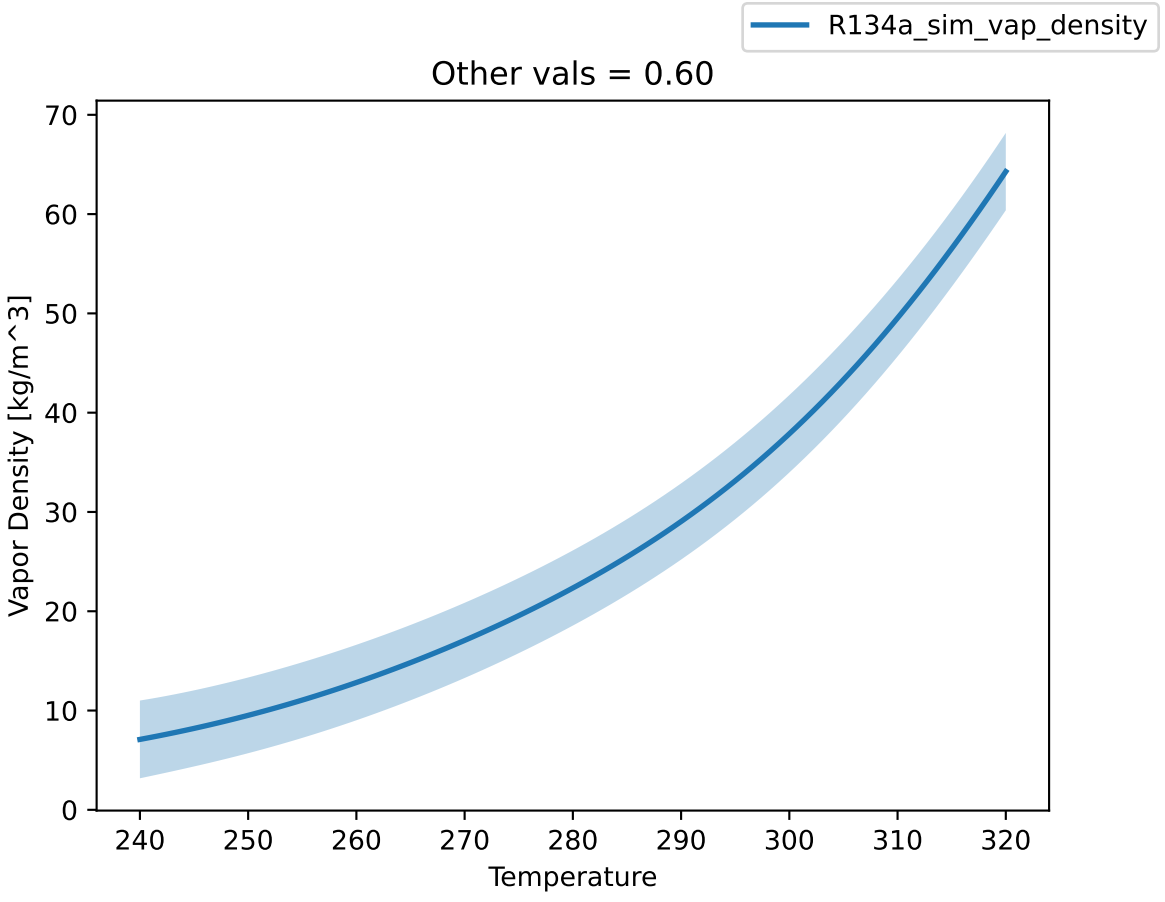
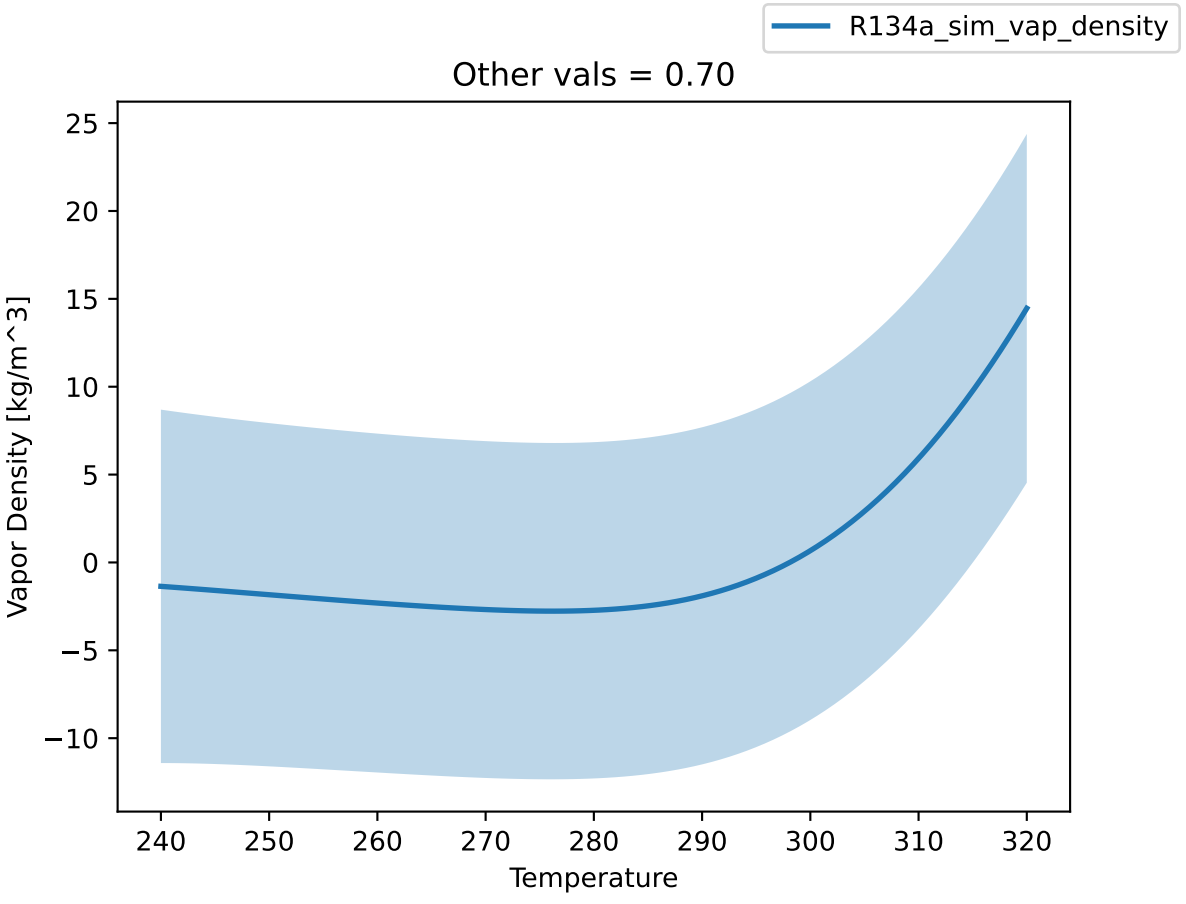
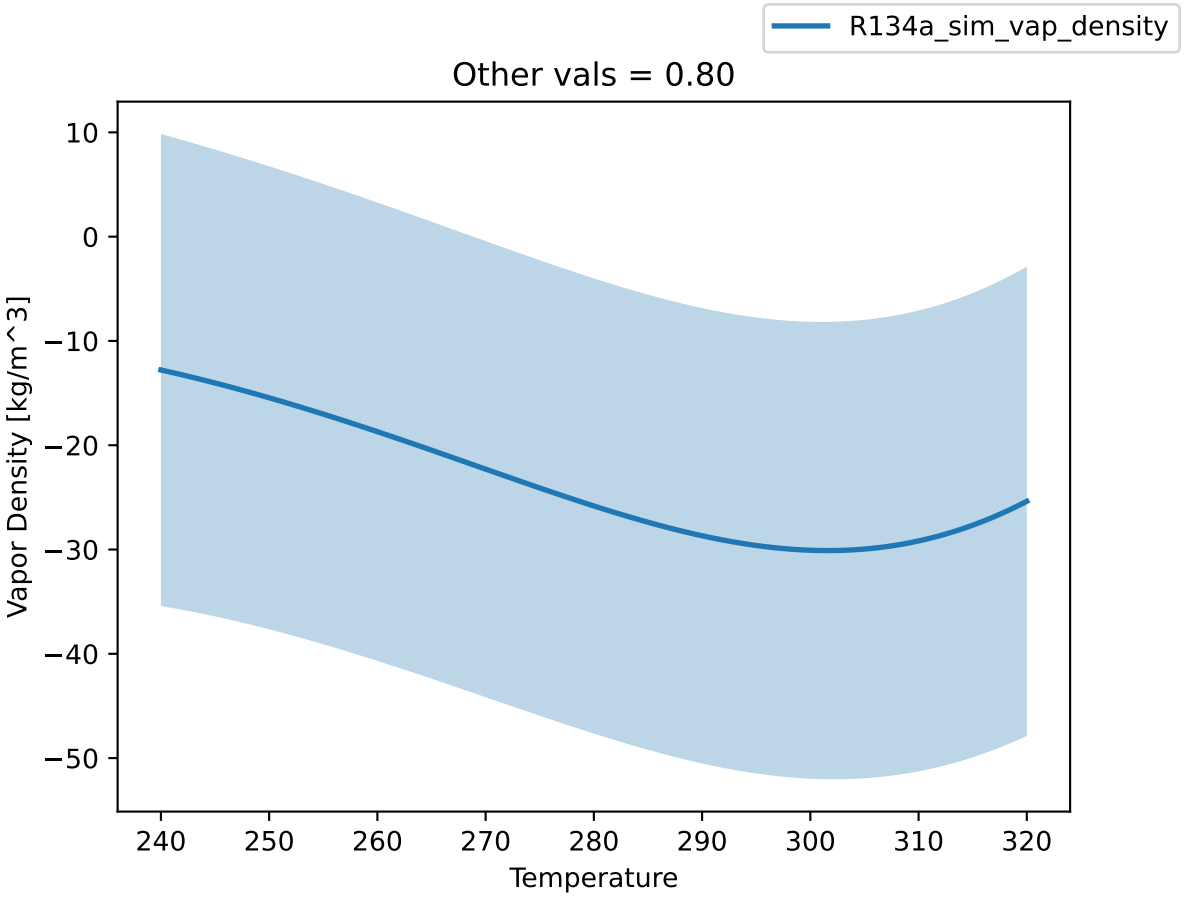
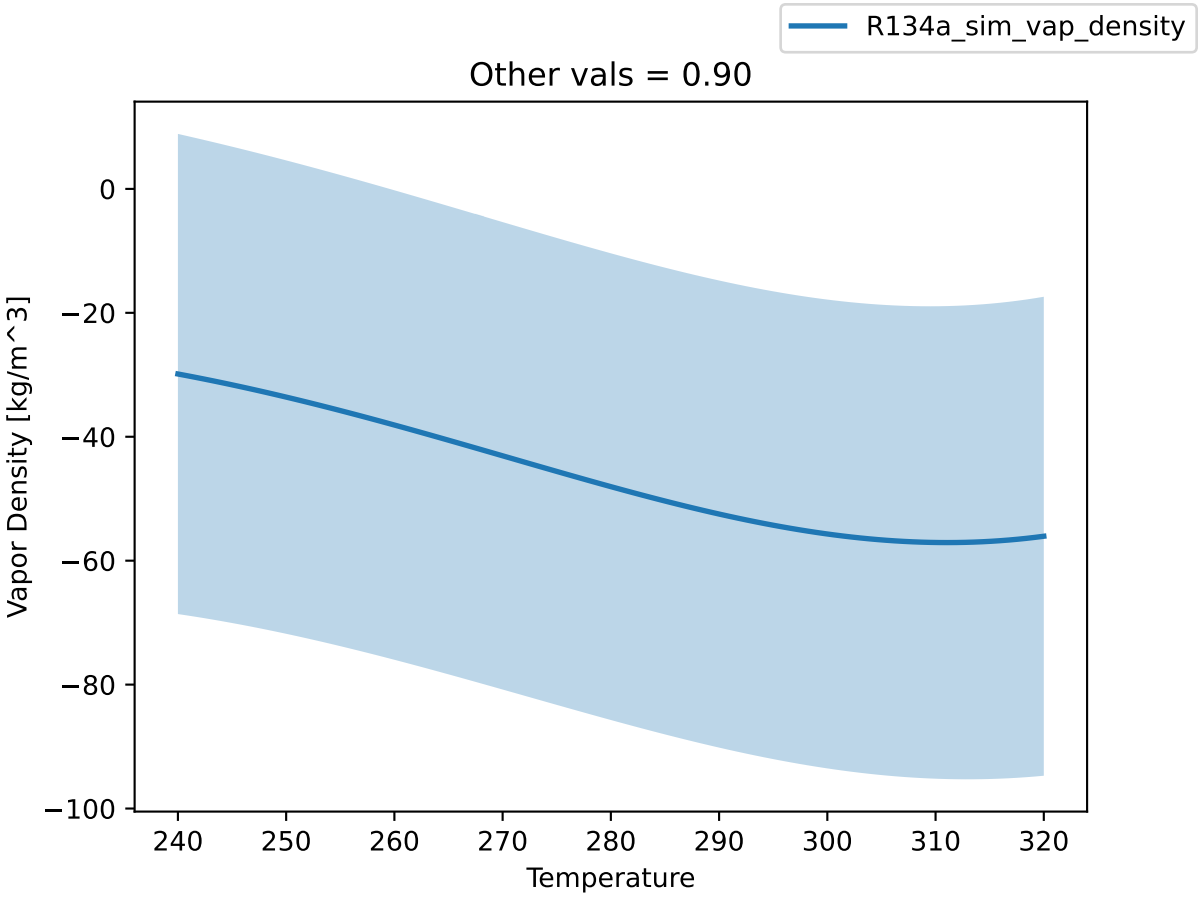
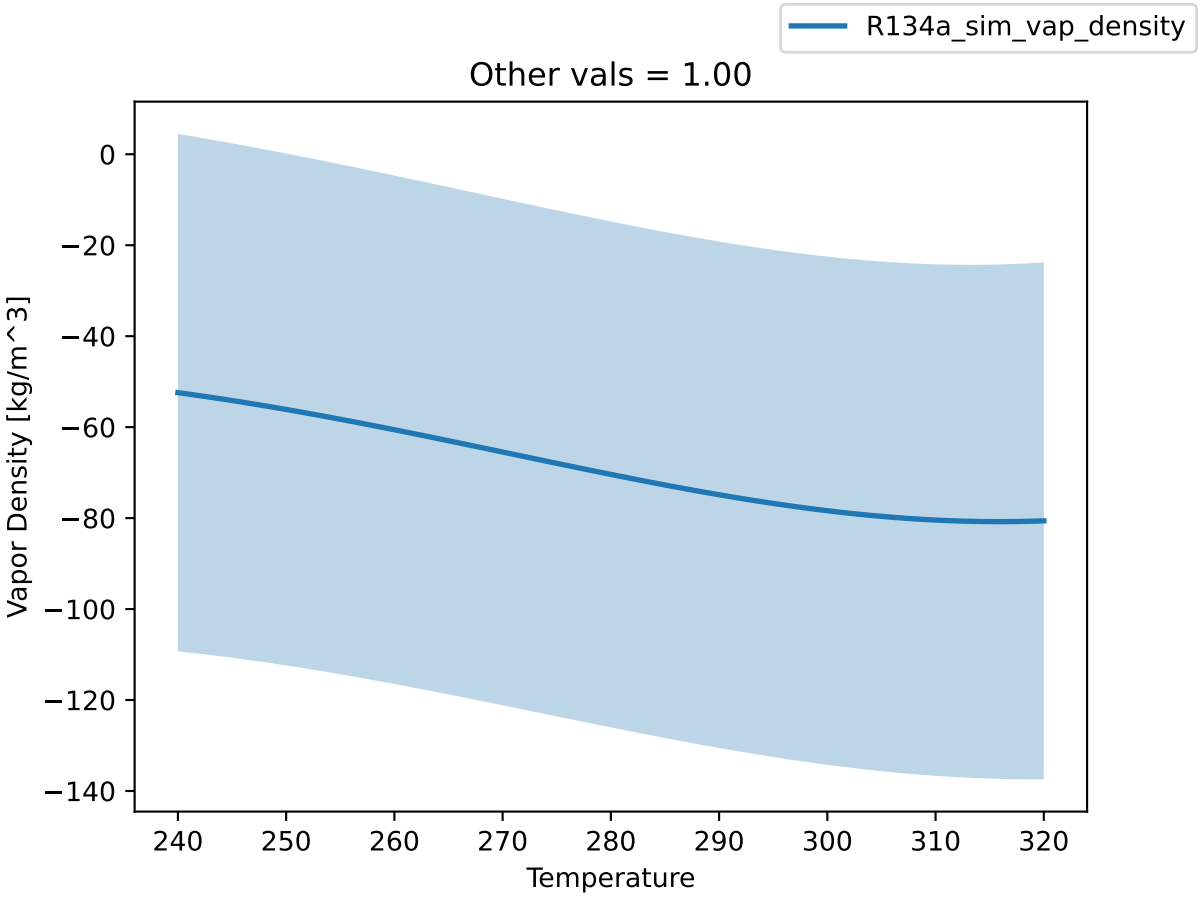
100
80
60
40
20
240
250
260
270
280
290
300
310
320
Temperature

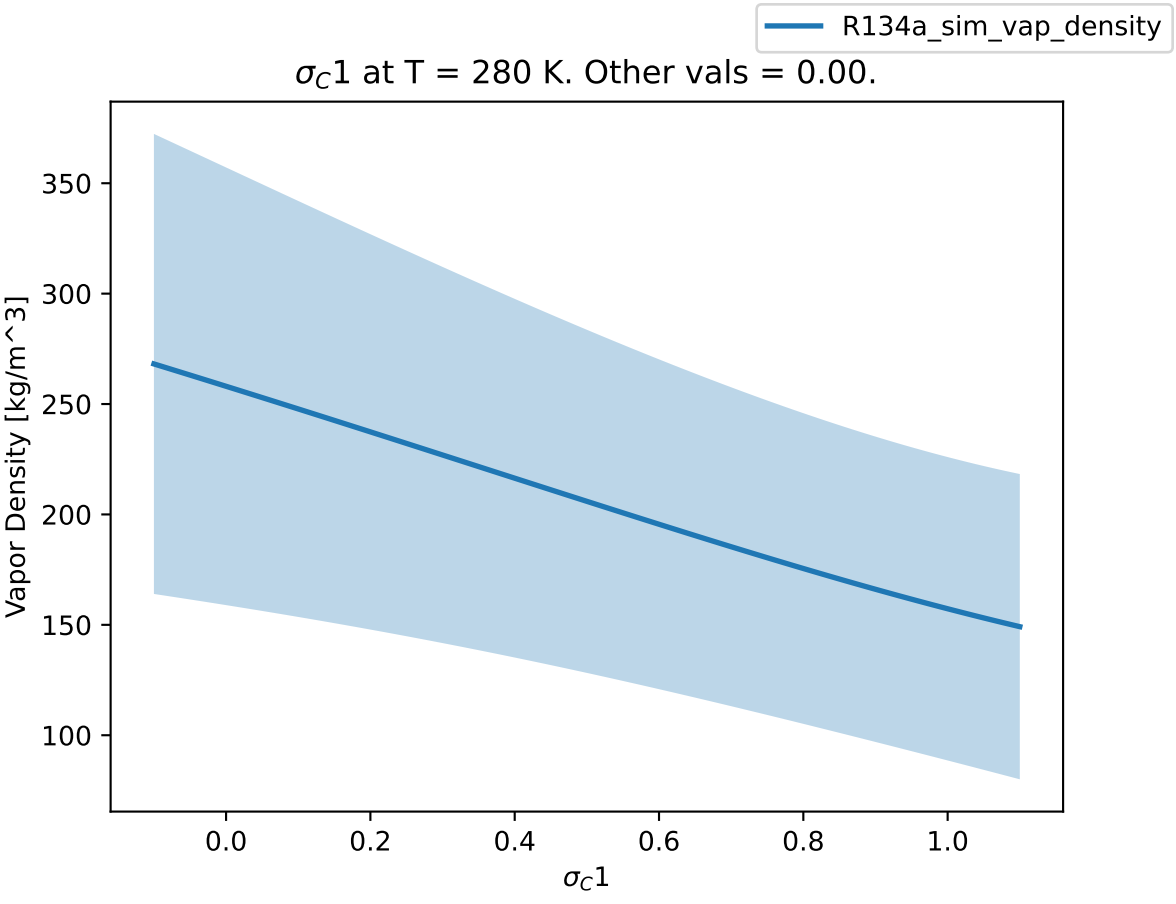

R134a_sim_vap_density
Other vals = 0.60
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320
Temperature

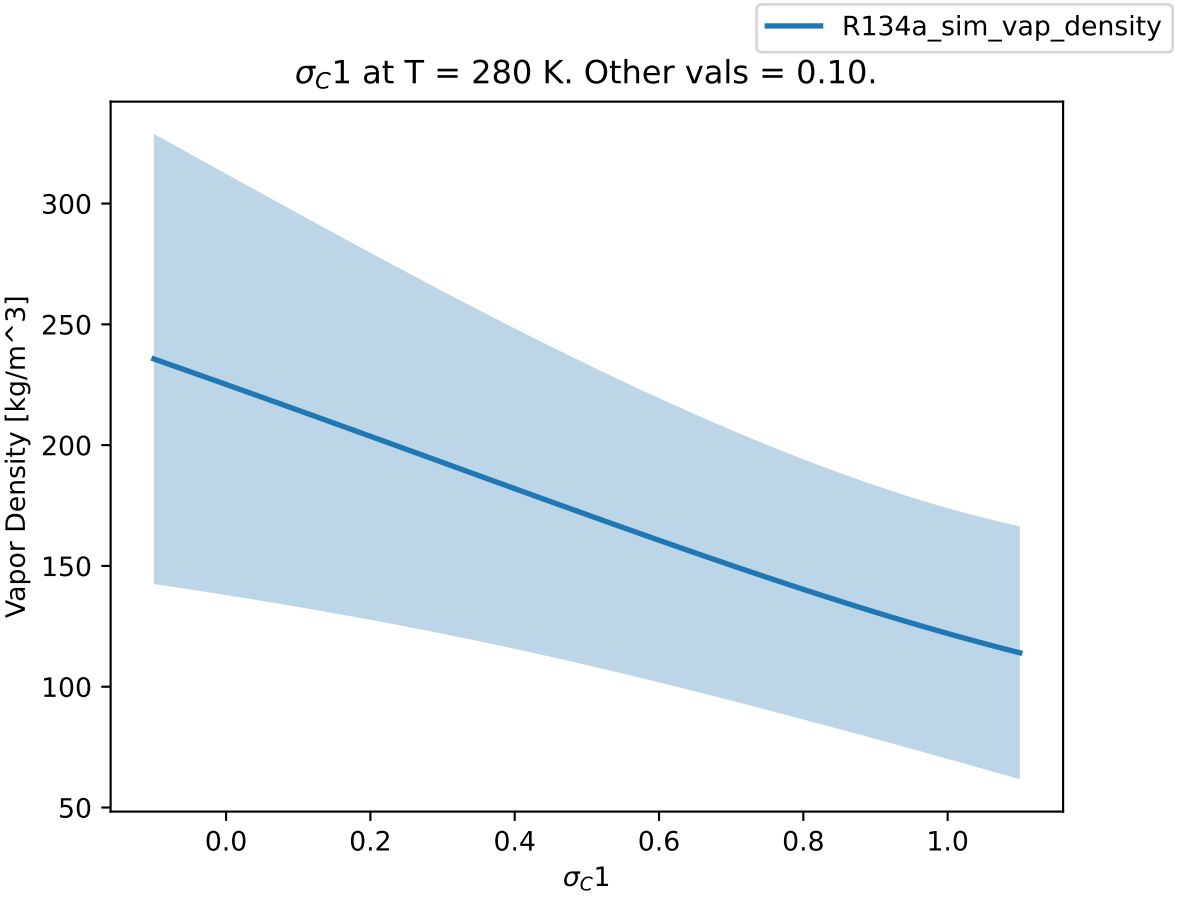

R134a_sim_vap_density
Other vals = 0.70
Vapor Density [kg/m^3]
25
20
15
10
5
0
−5
−10
240
250
260
270
280
290
300
310
320
Temperature

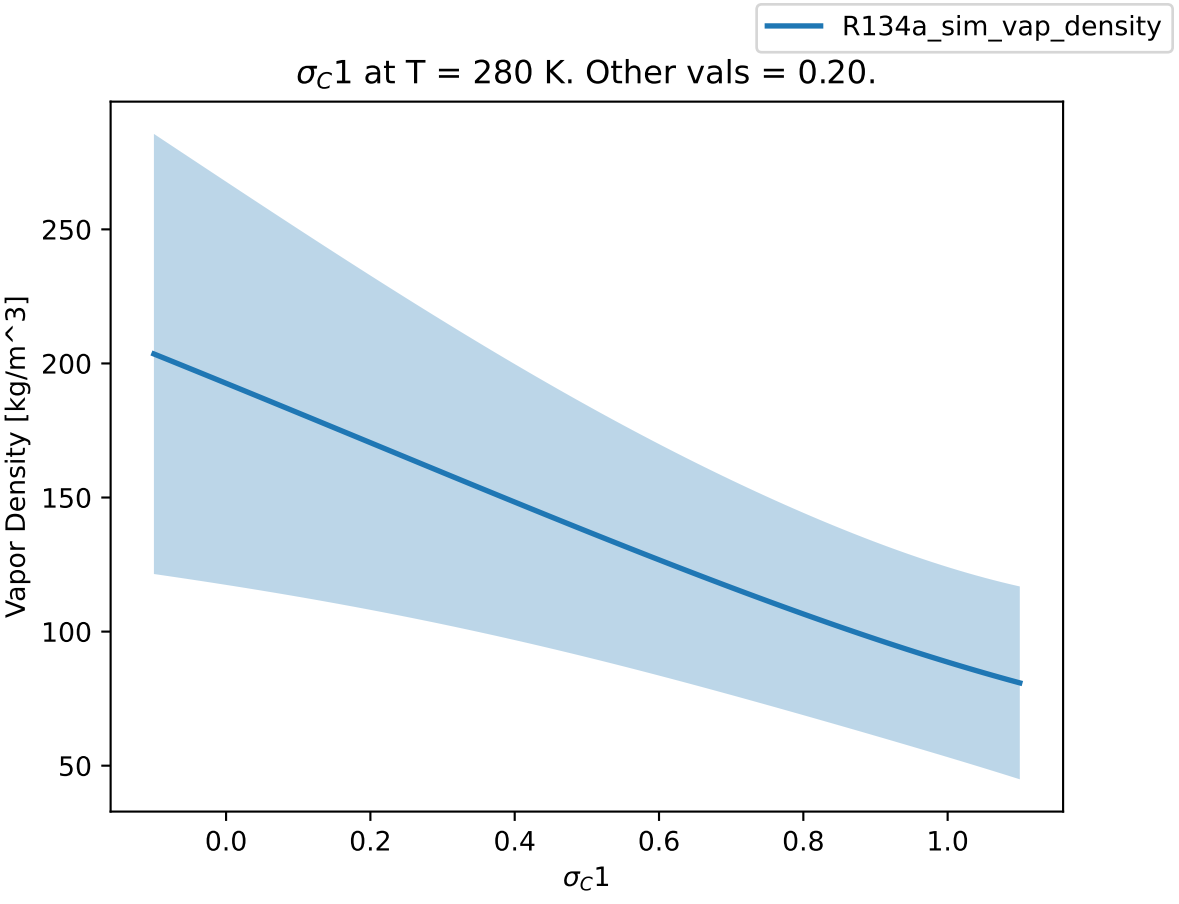

R134a_sim_vap_density
Other vals = 0.80
Vapor Density [kg/m^3]
10
0
−10
−20
−30
−40
−50
240
250
260
270
280
290
300
310
320
Temperature

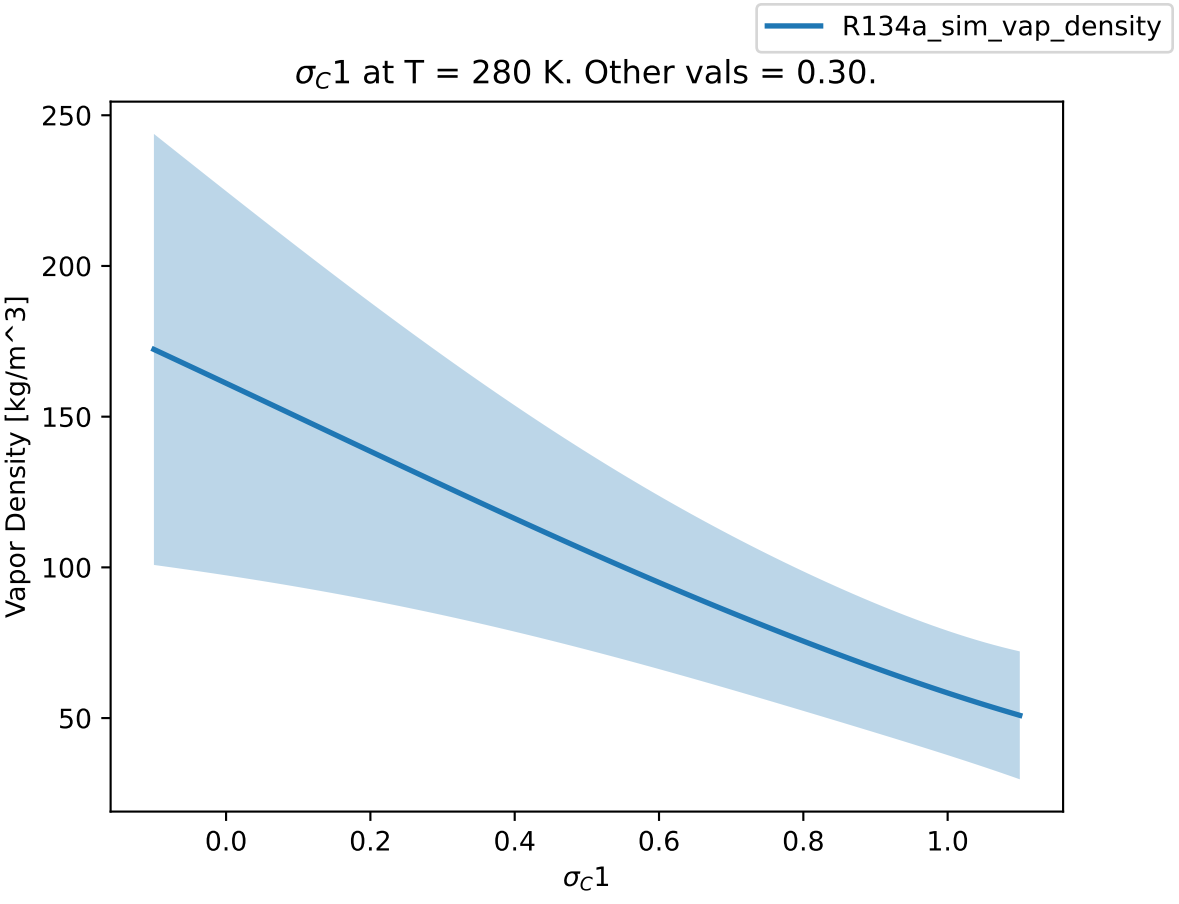

R134a_sim_vap_density
Other vals = 0.90
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
−100
240
250
260
270
280
290
300
310
320
Temperature

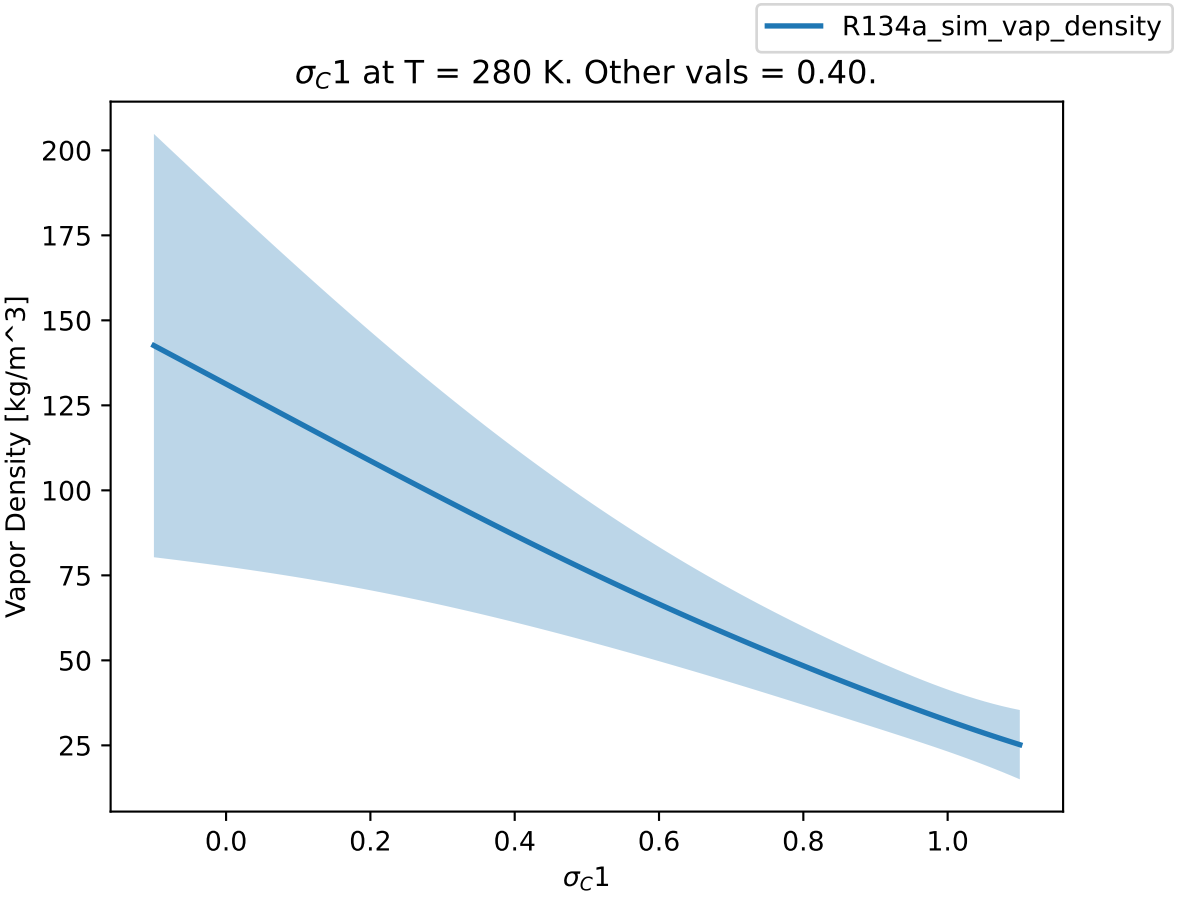

R134a_sim_vap_density
Other vals = 1.00
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
−100
−120
−140
240
250
260
270
280
290
300
310
320
Temperature

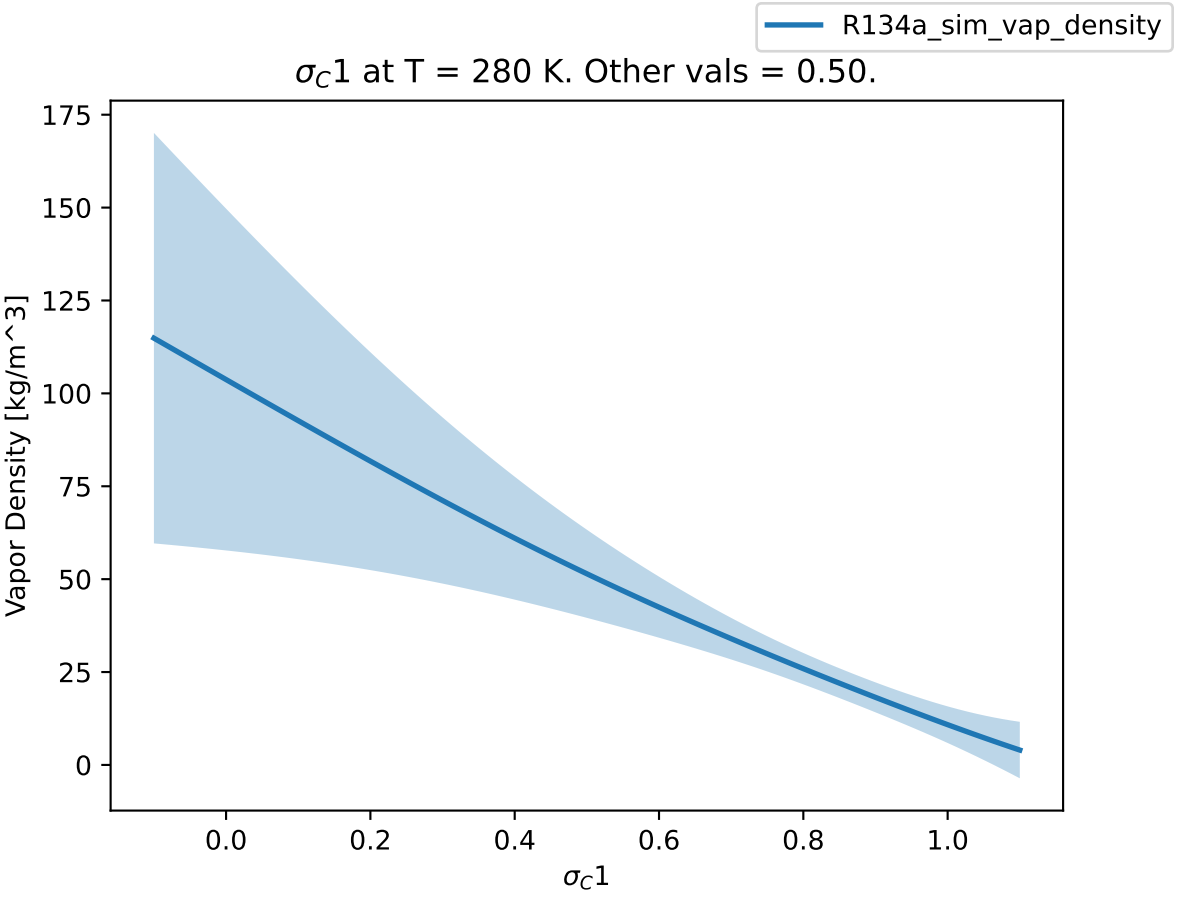

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

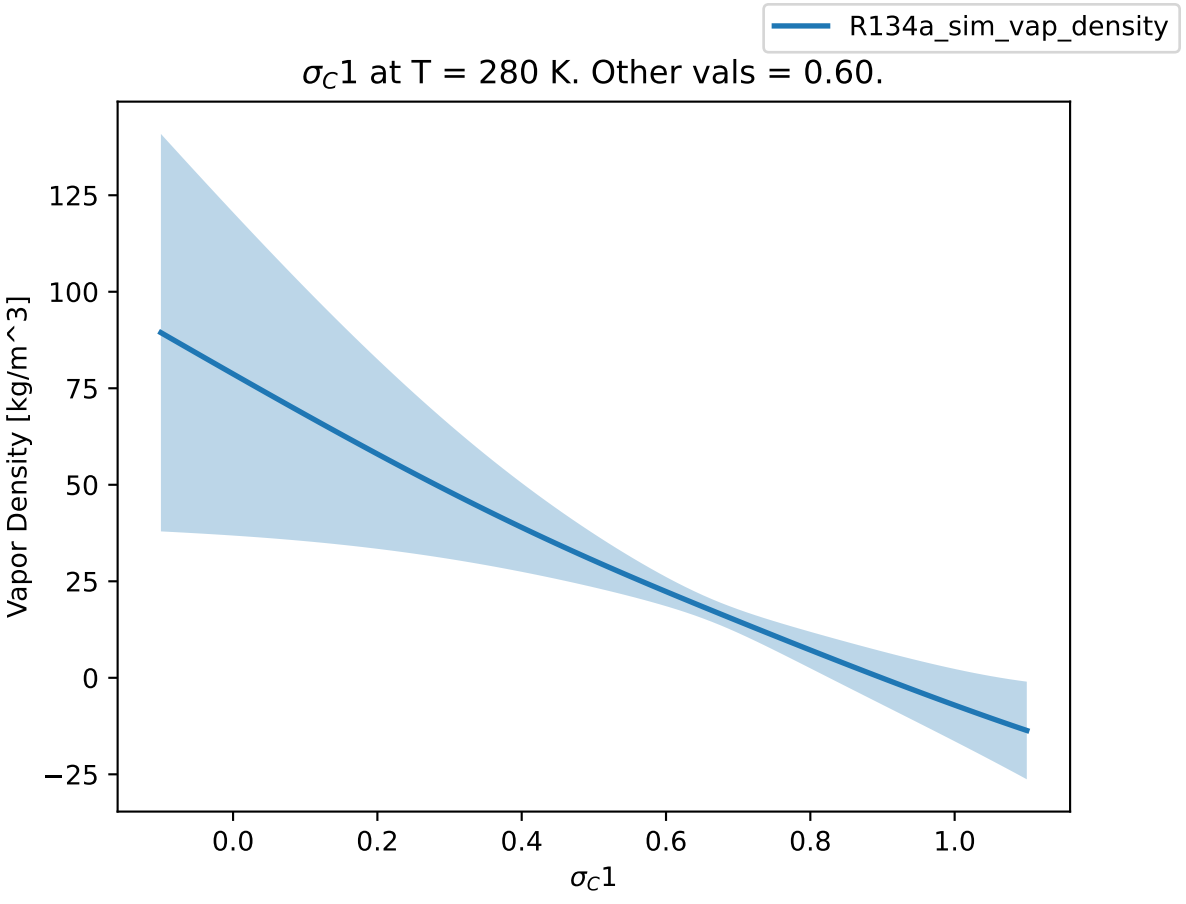

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

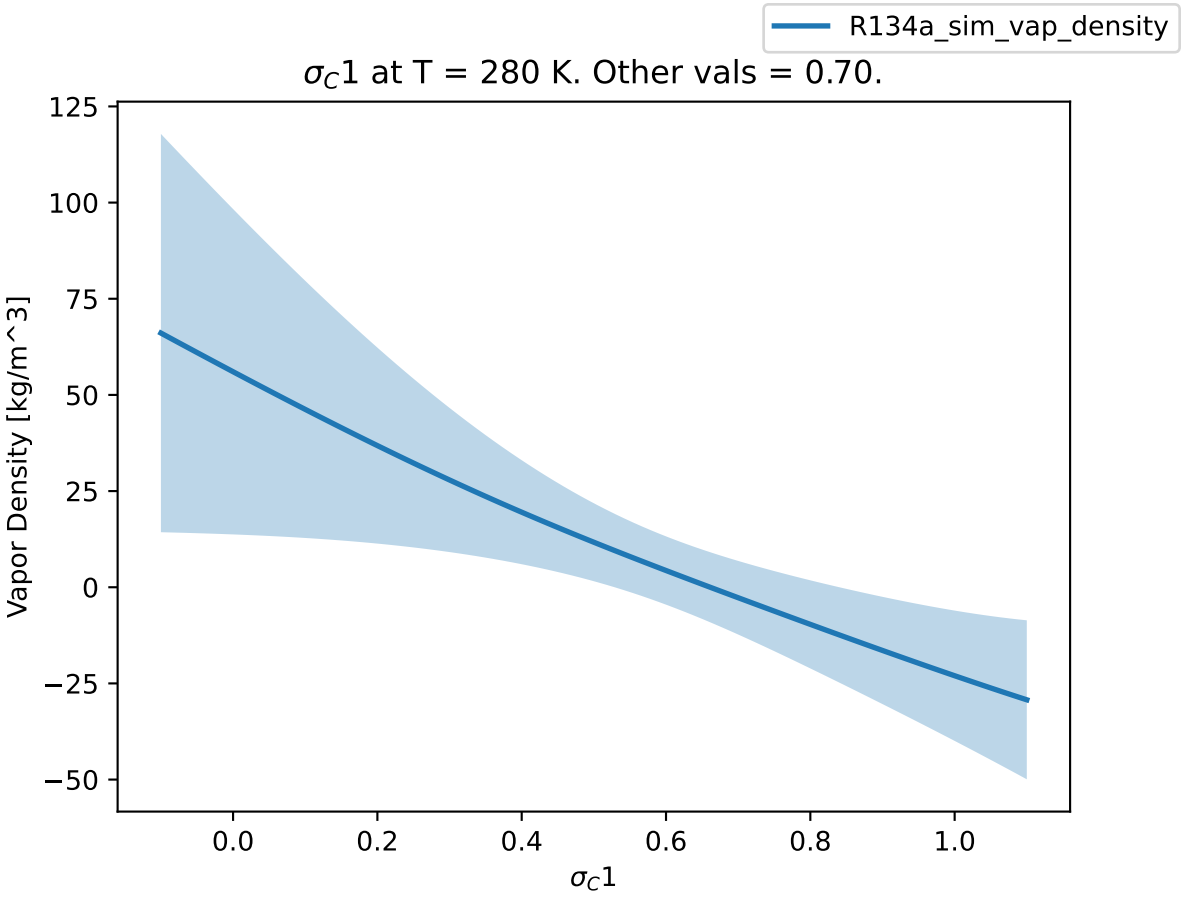

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

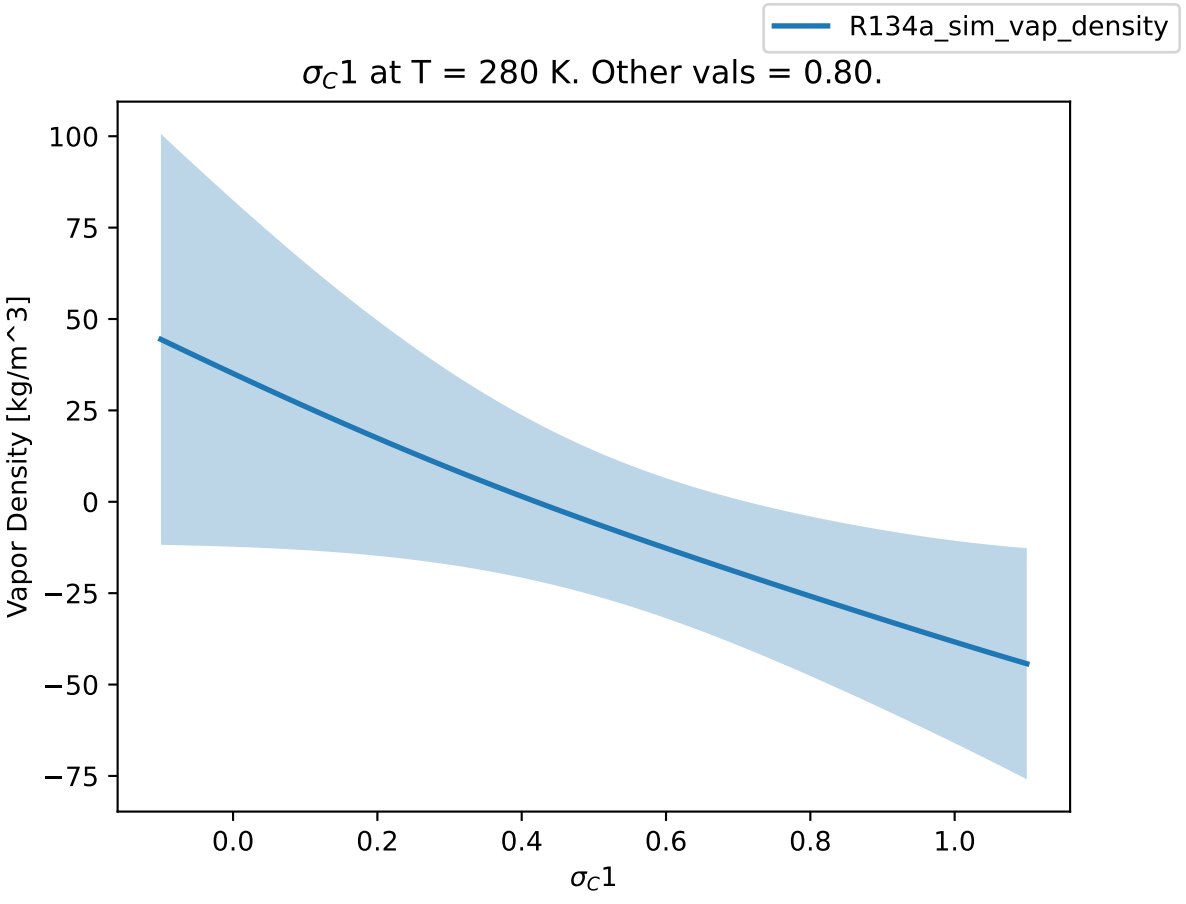

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

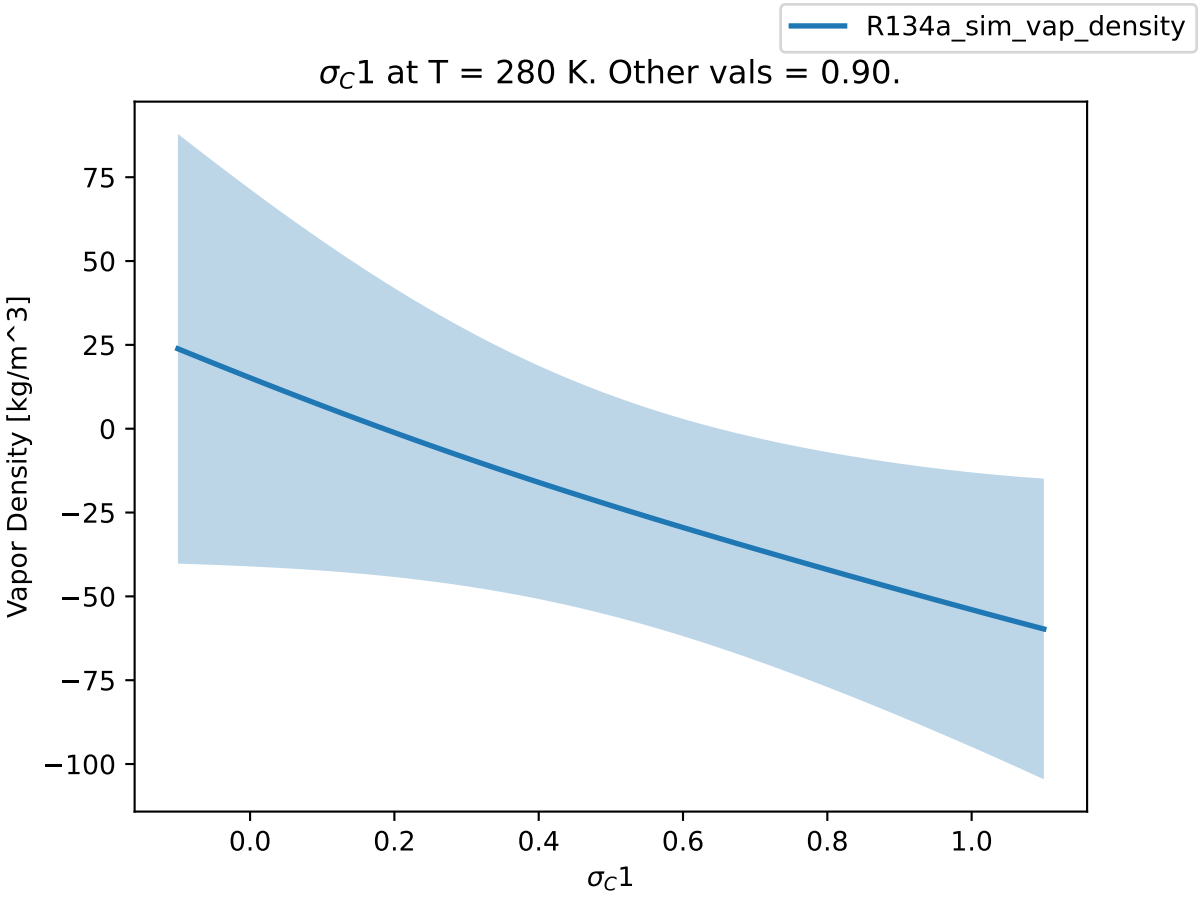

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
200
175
150
125
100
75
50
25
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

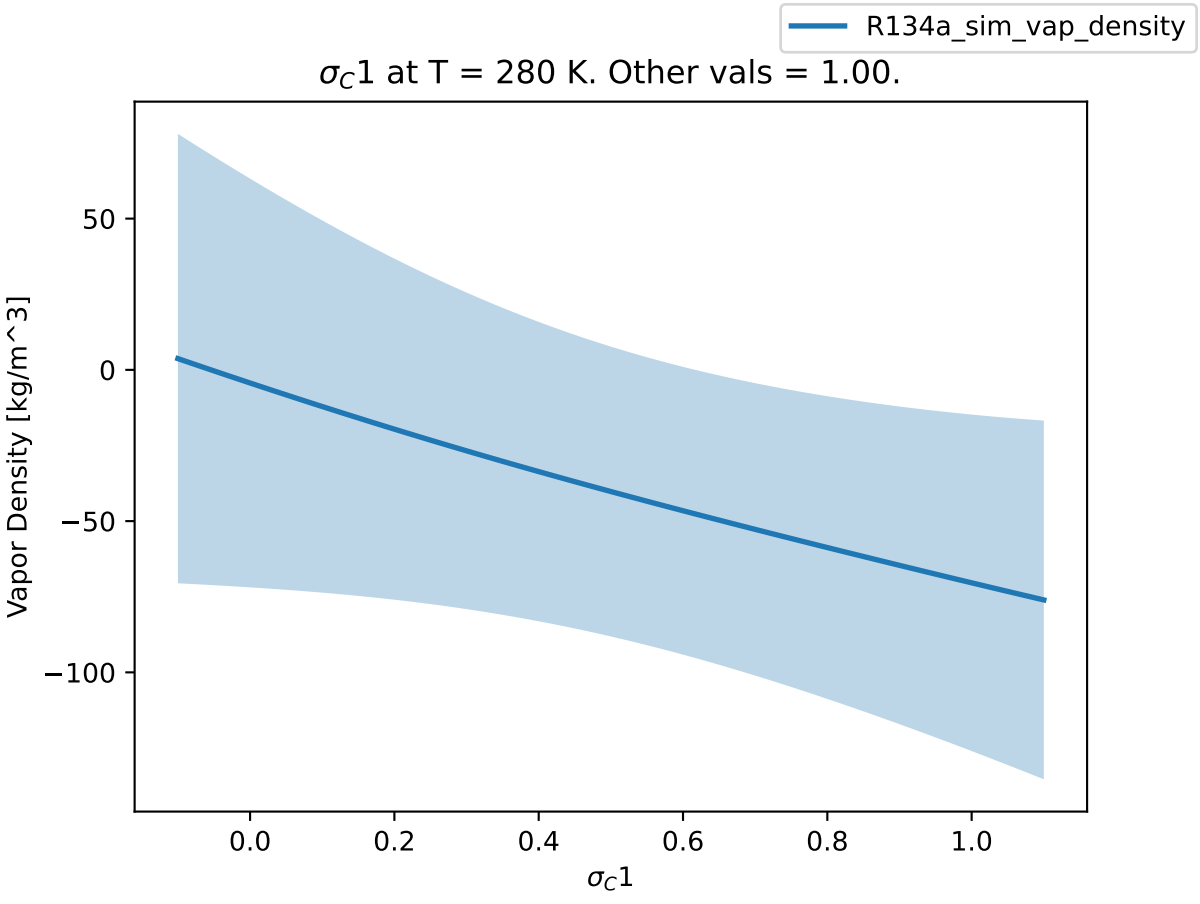

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

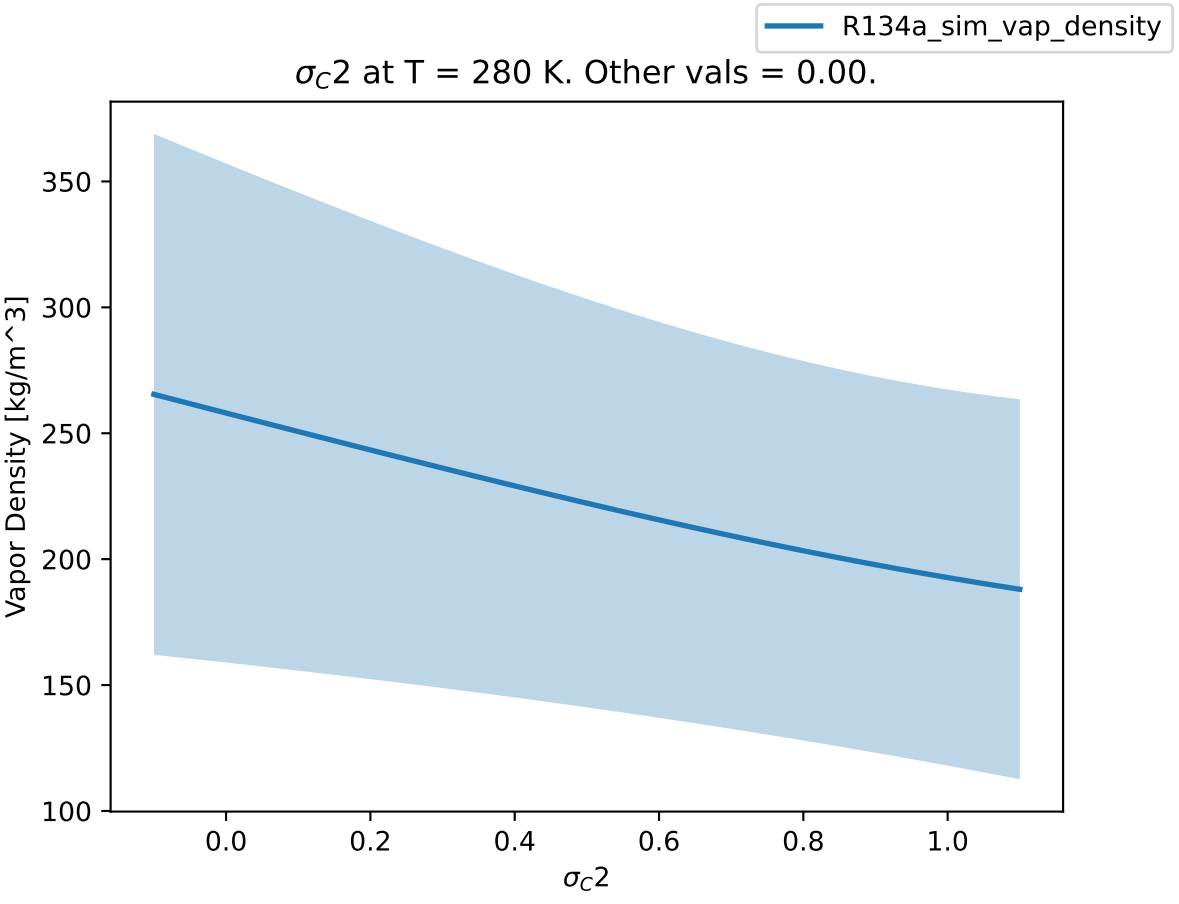

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
125
100
75
50
25
0
−25
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

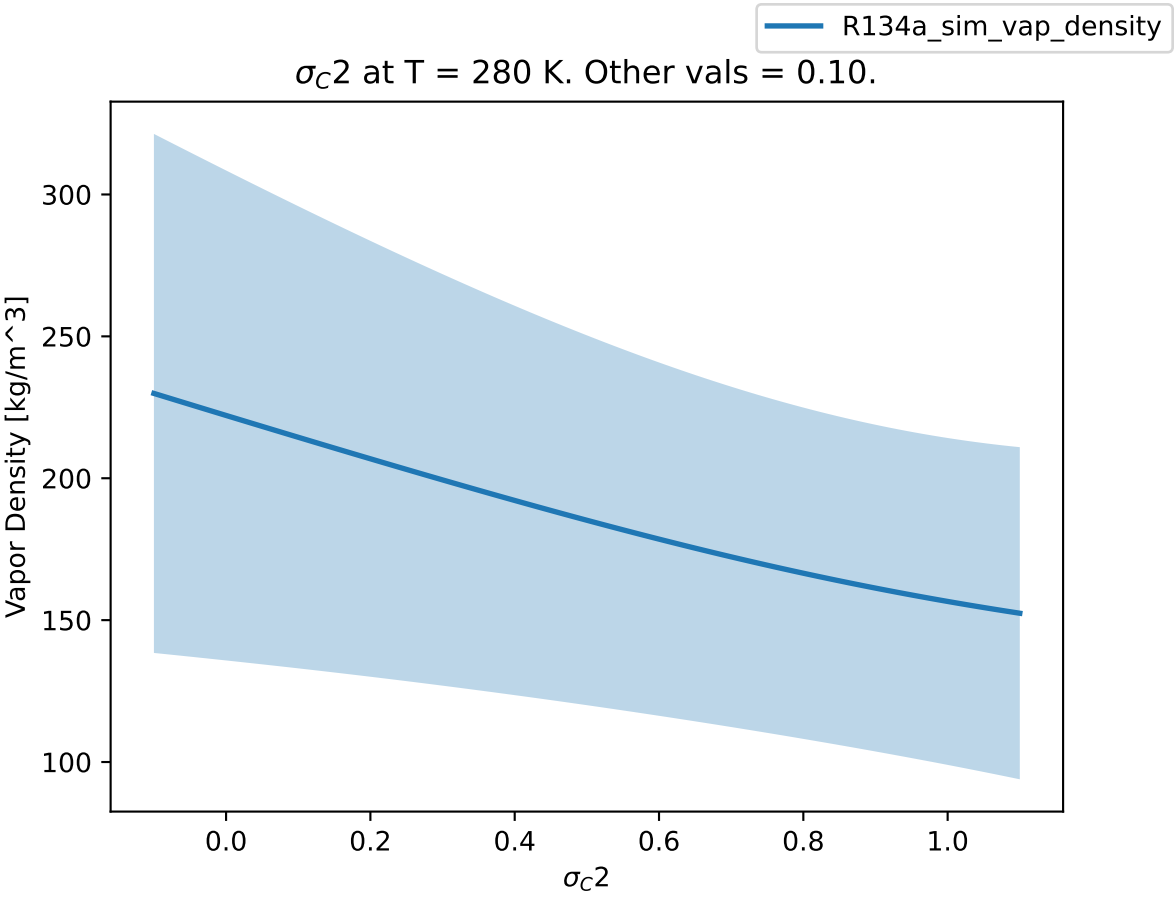

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
125
100
75
50
25
0
−25
−50
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

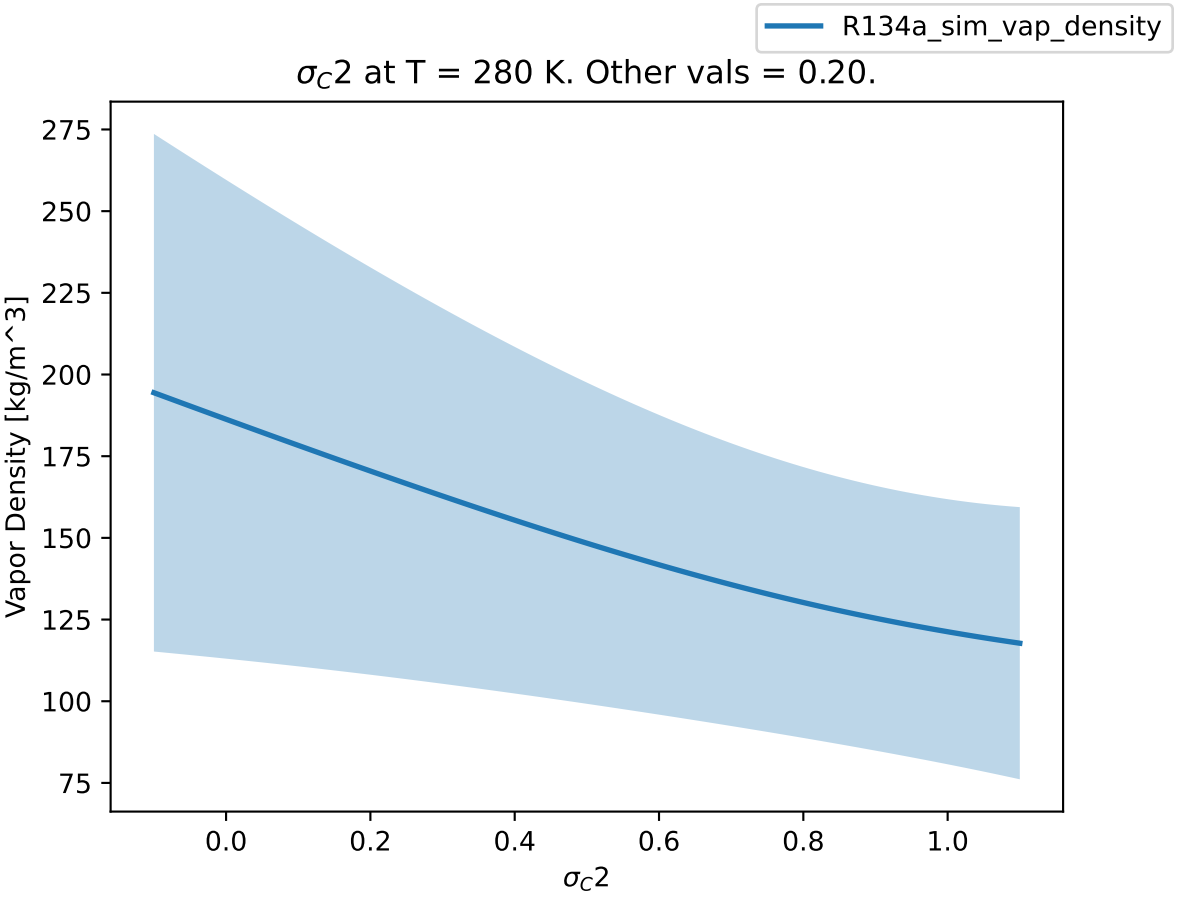

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
100
75
50
25
0
−25
−50
−75
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

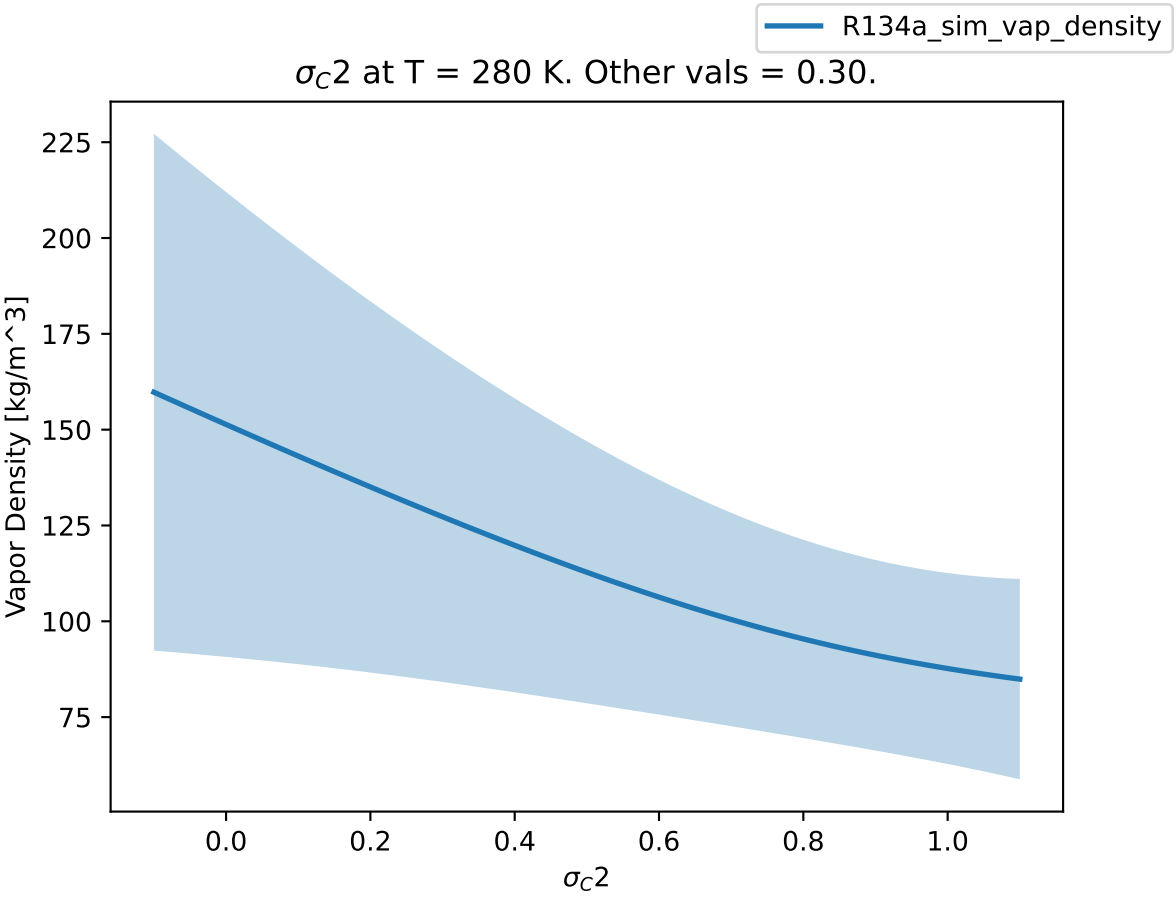

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
75
50
25
0
−25
−50
−75
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

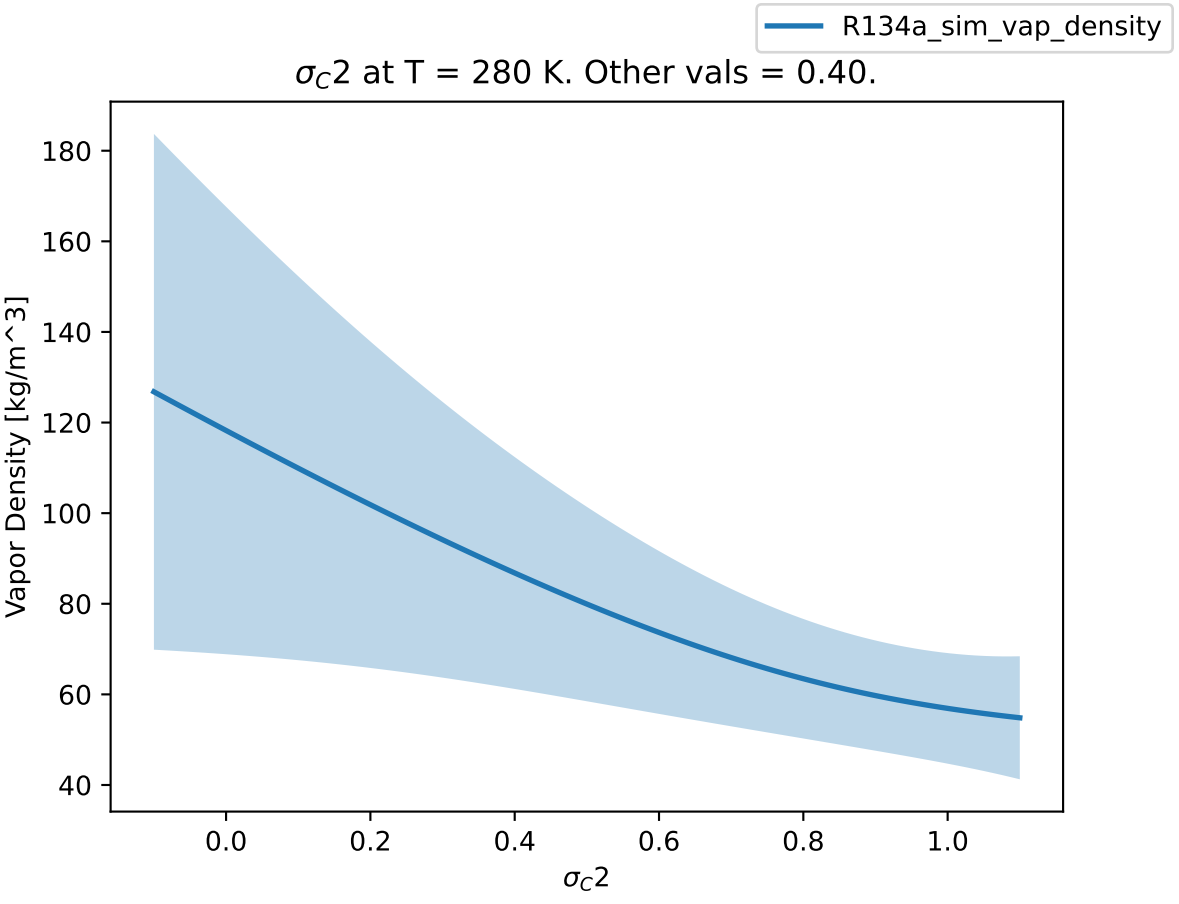

R134a_sim_vap_density
σ_C1 at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
50
0
−50
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

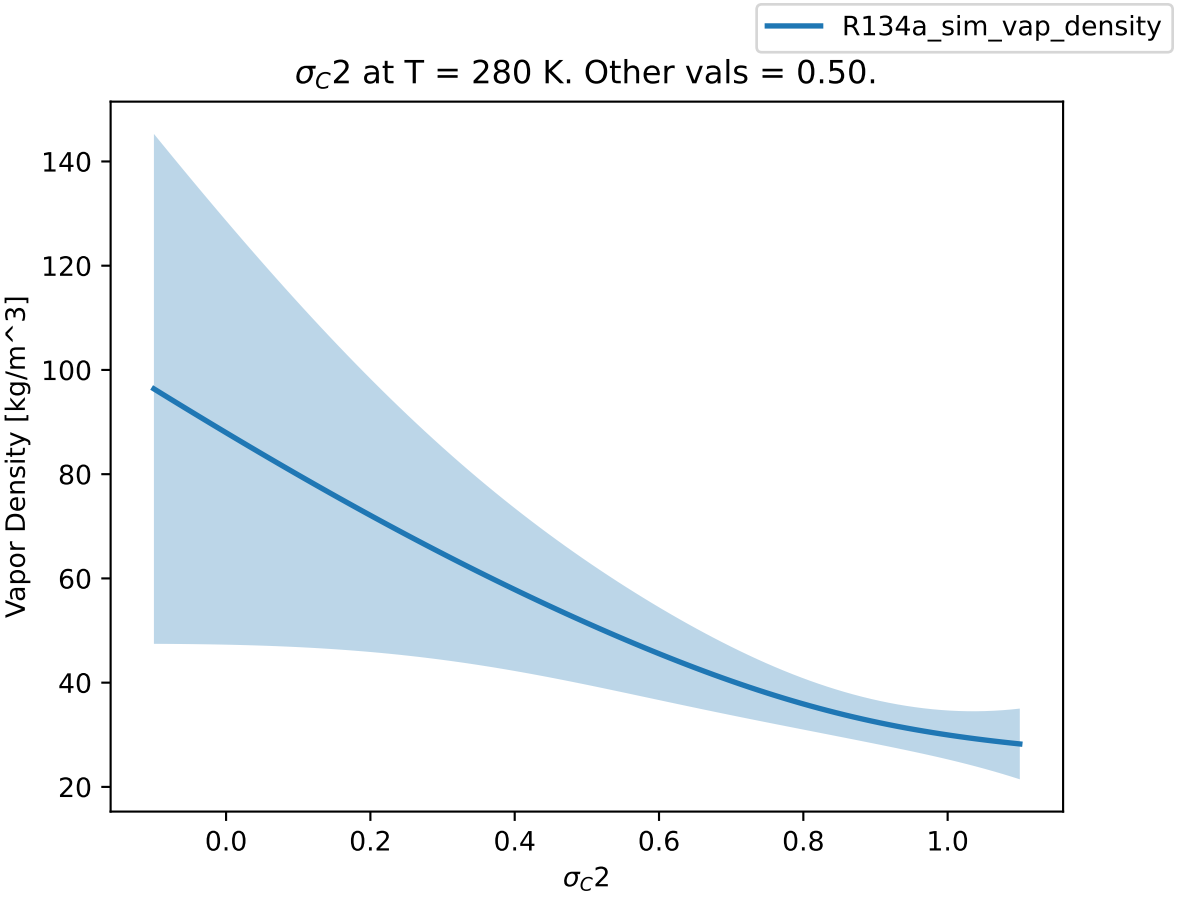

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

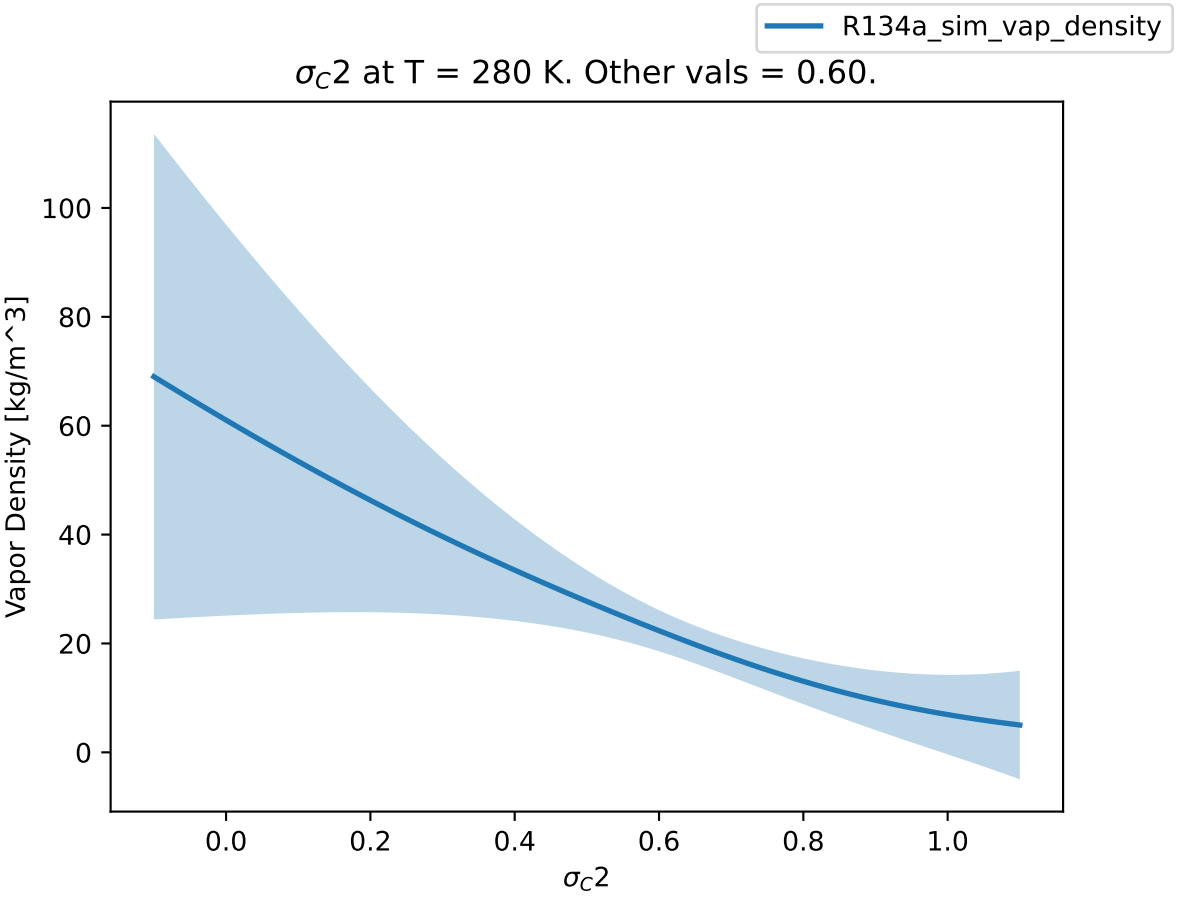

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

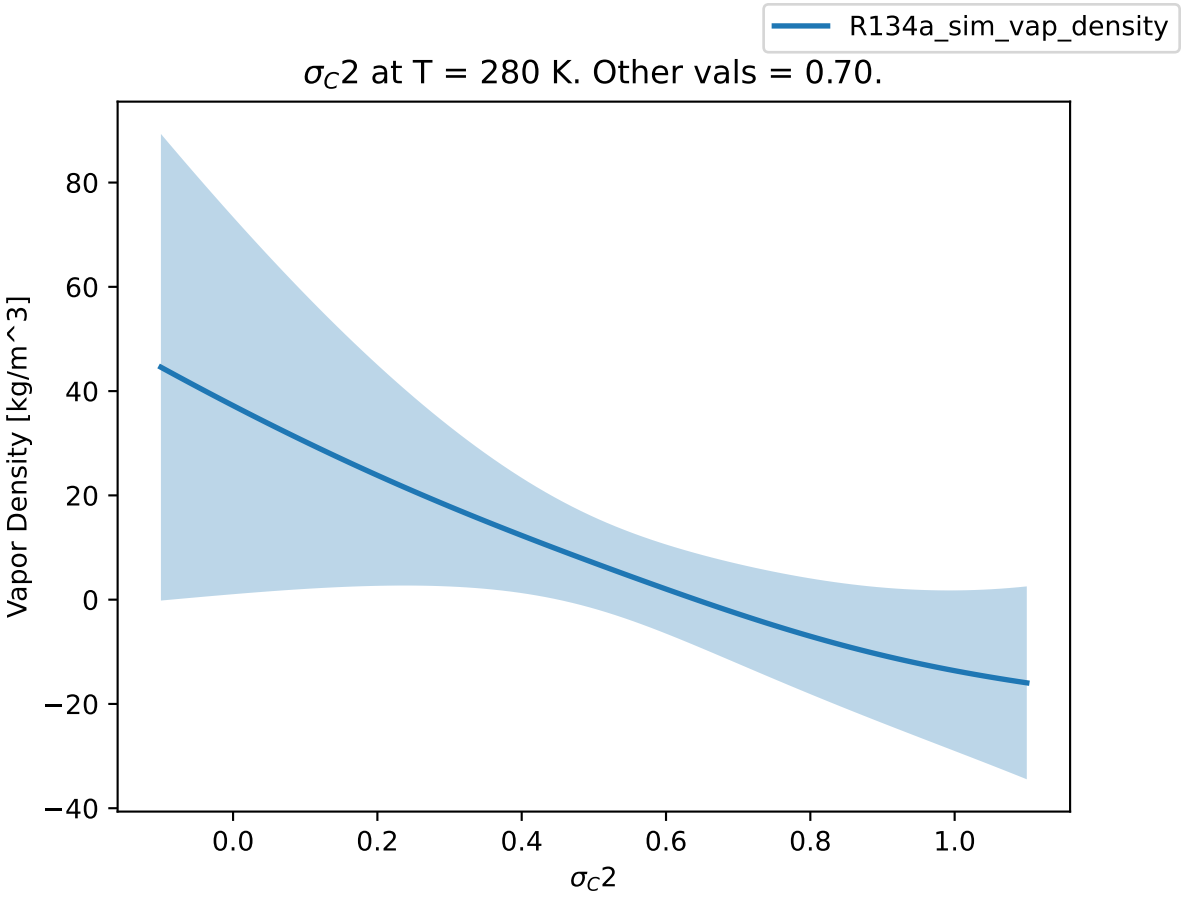

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
275
250
225
200
175
150
125
100
75
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

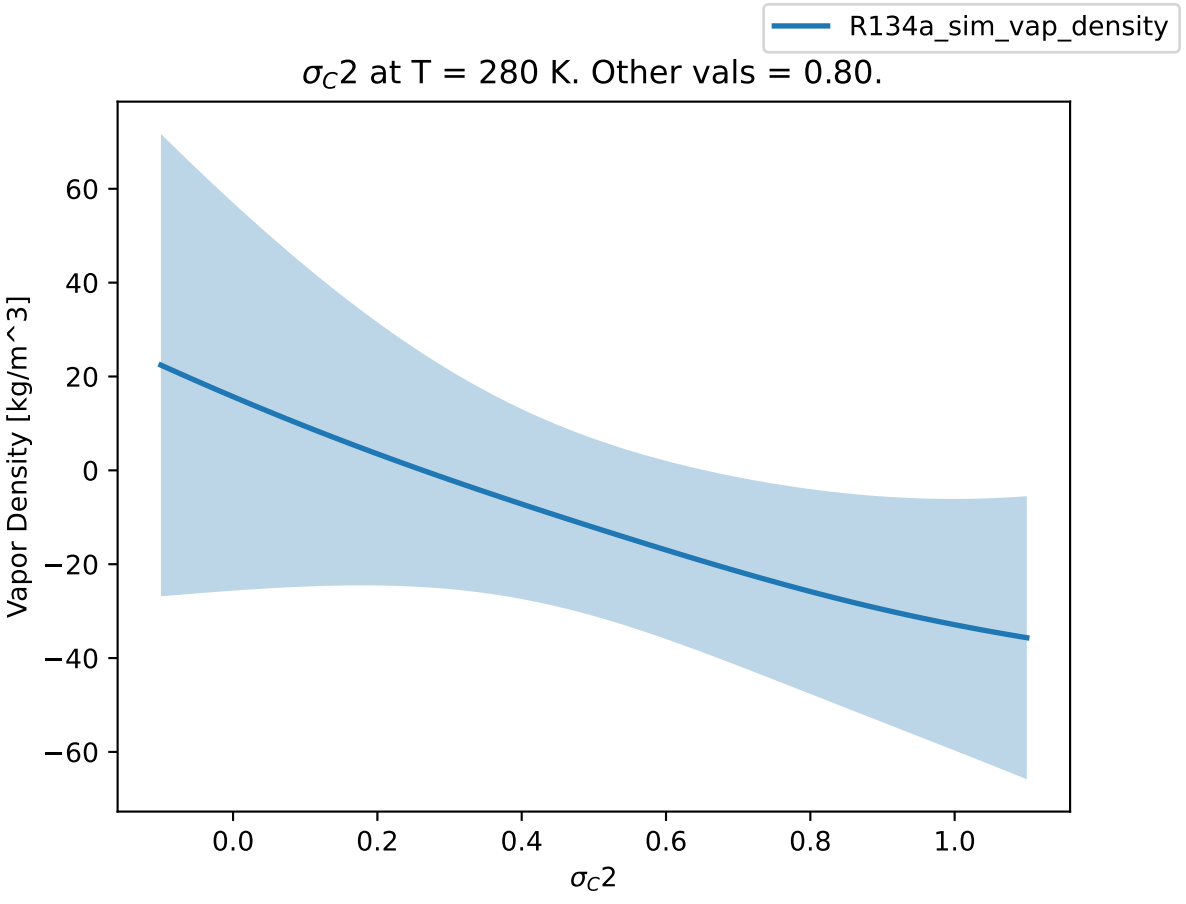

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
225
200
175
150
125
100
75
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

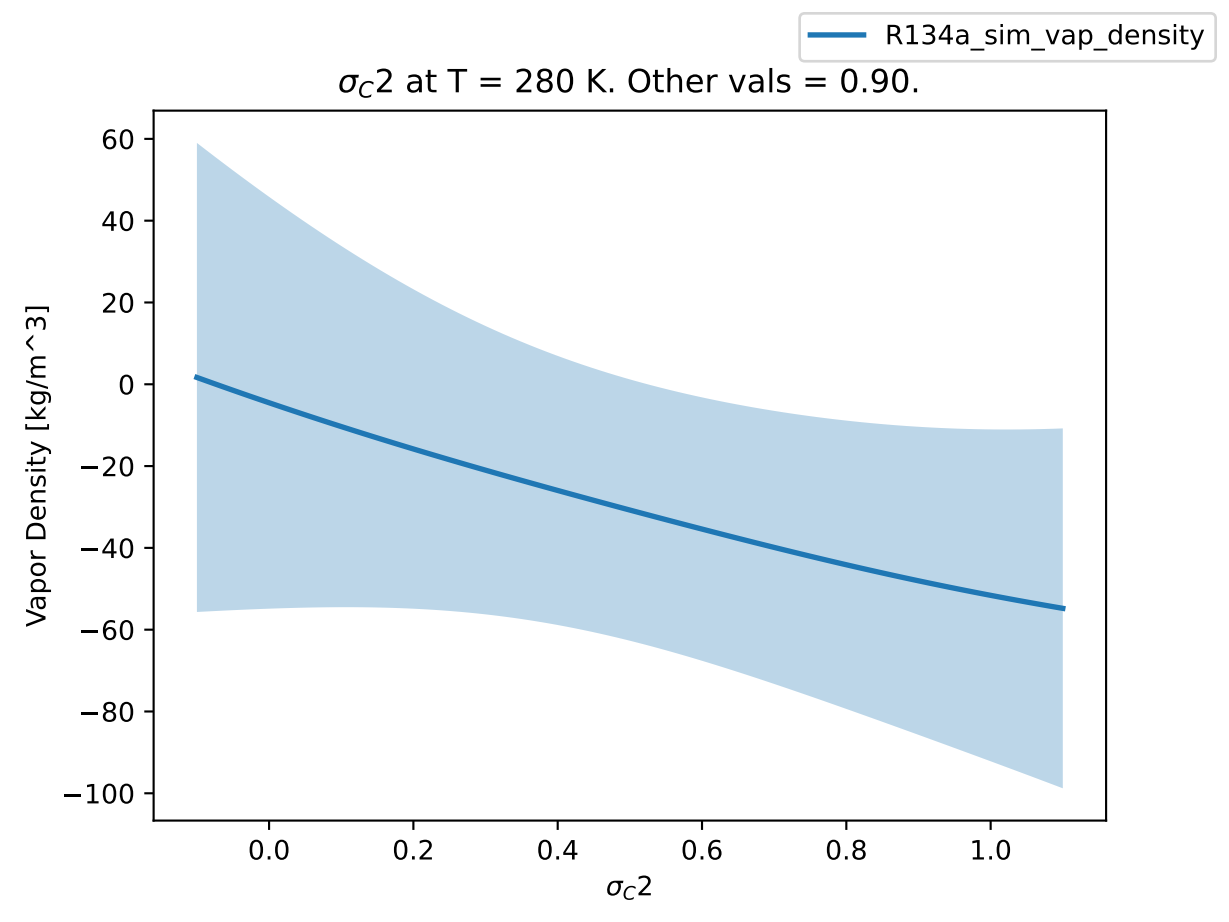

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
180
160
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

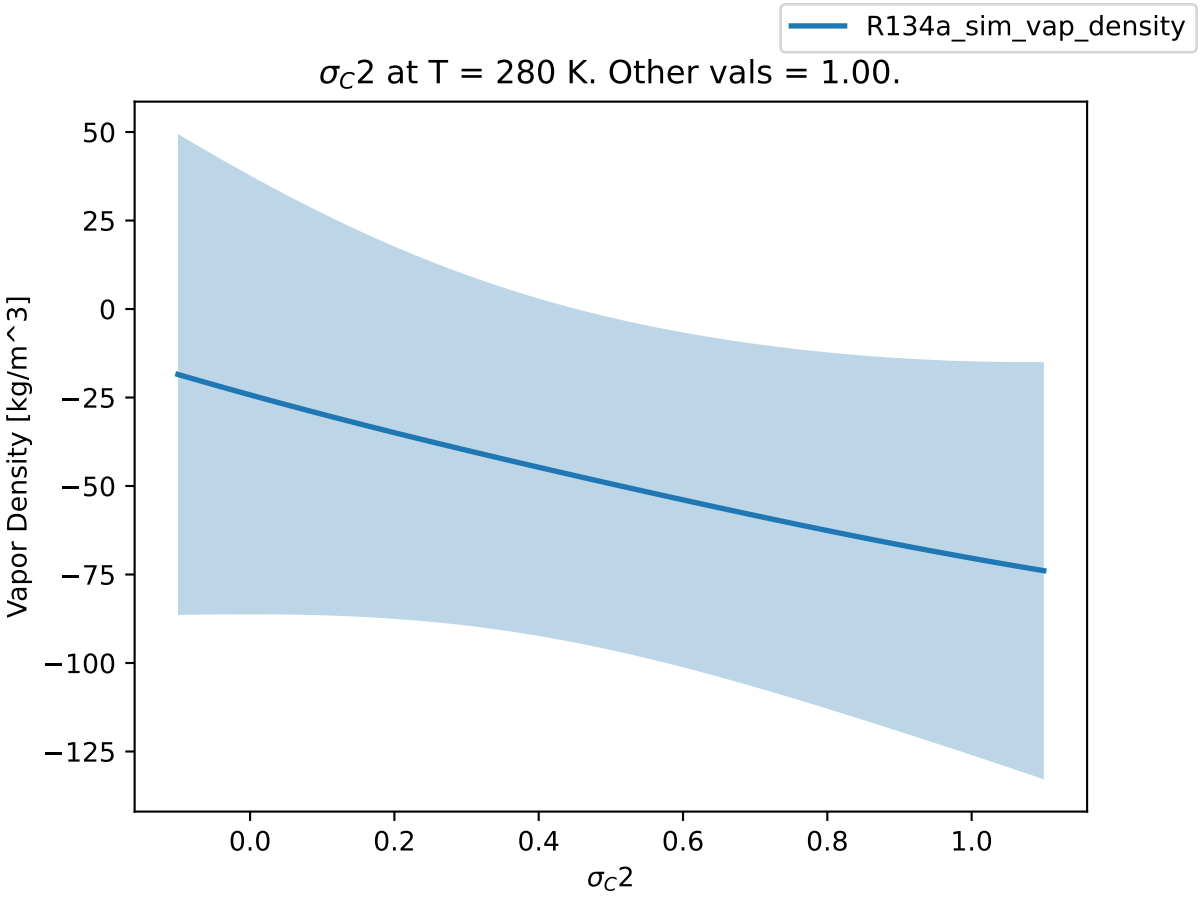

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
140
120
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

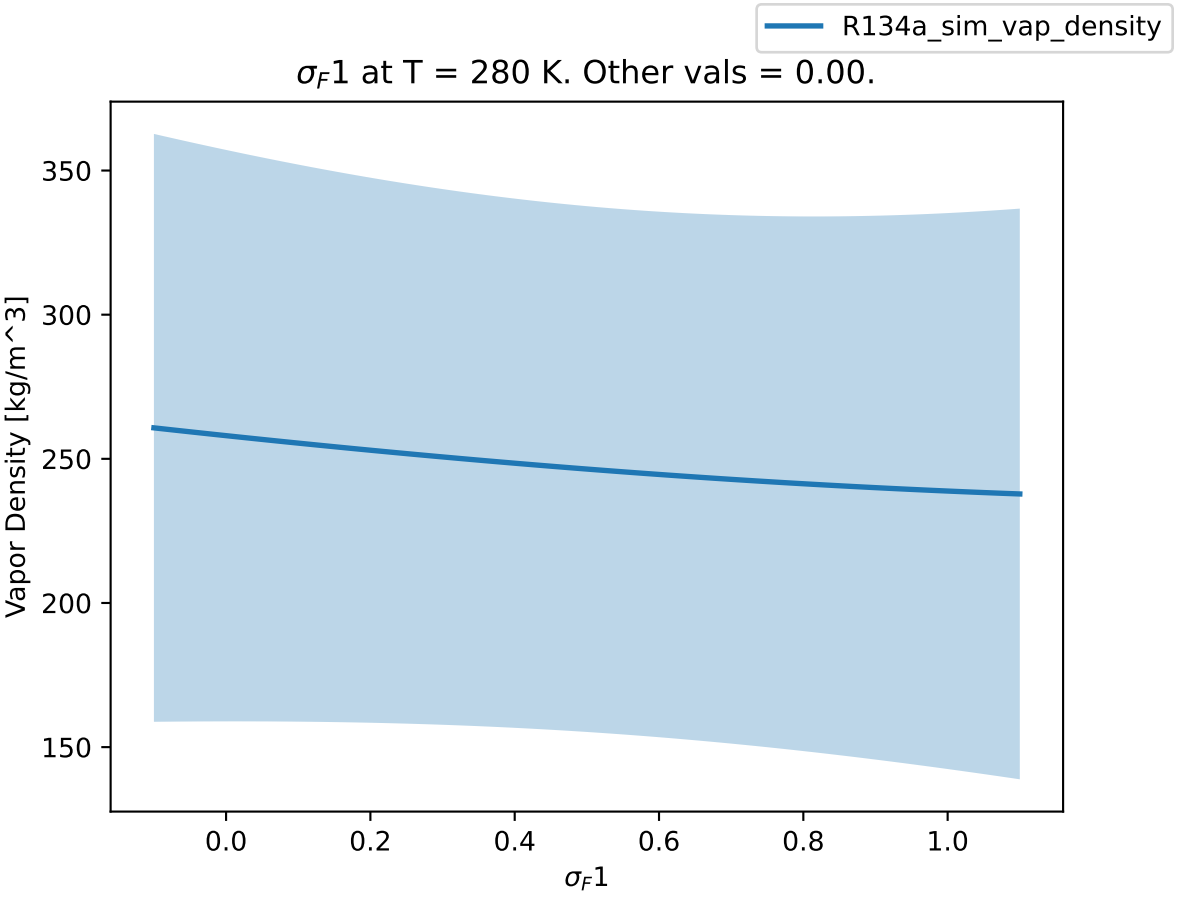

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
100
80
60
40
20
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

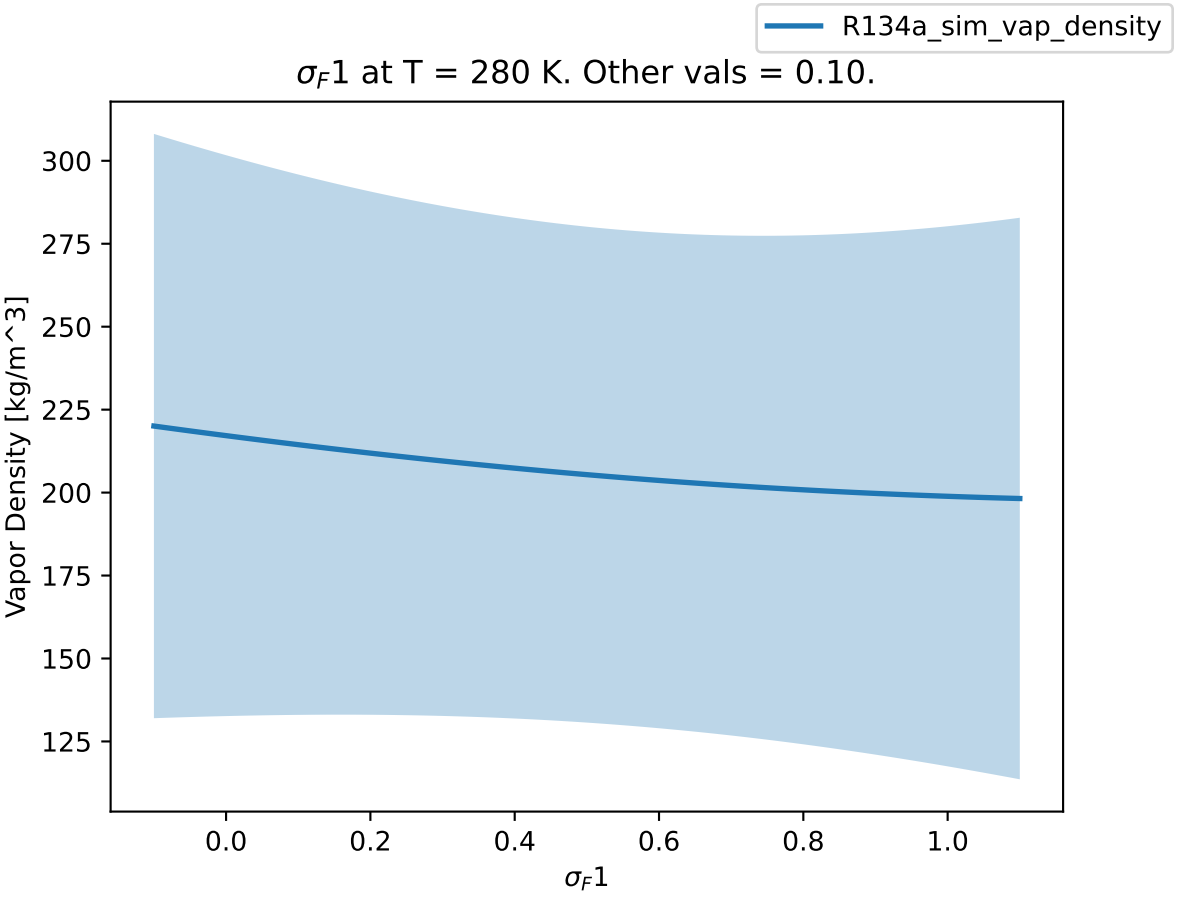

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
80
60
40
20
0
−20
−40
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

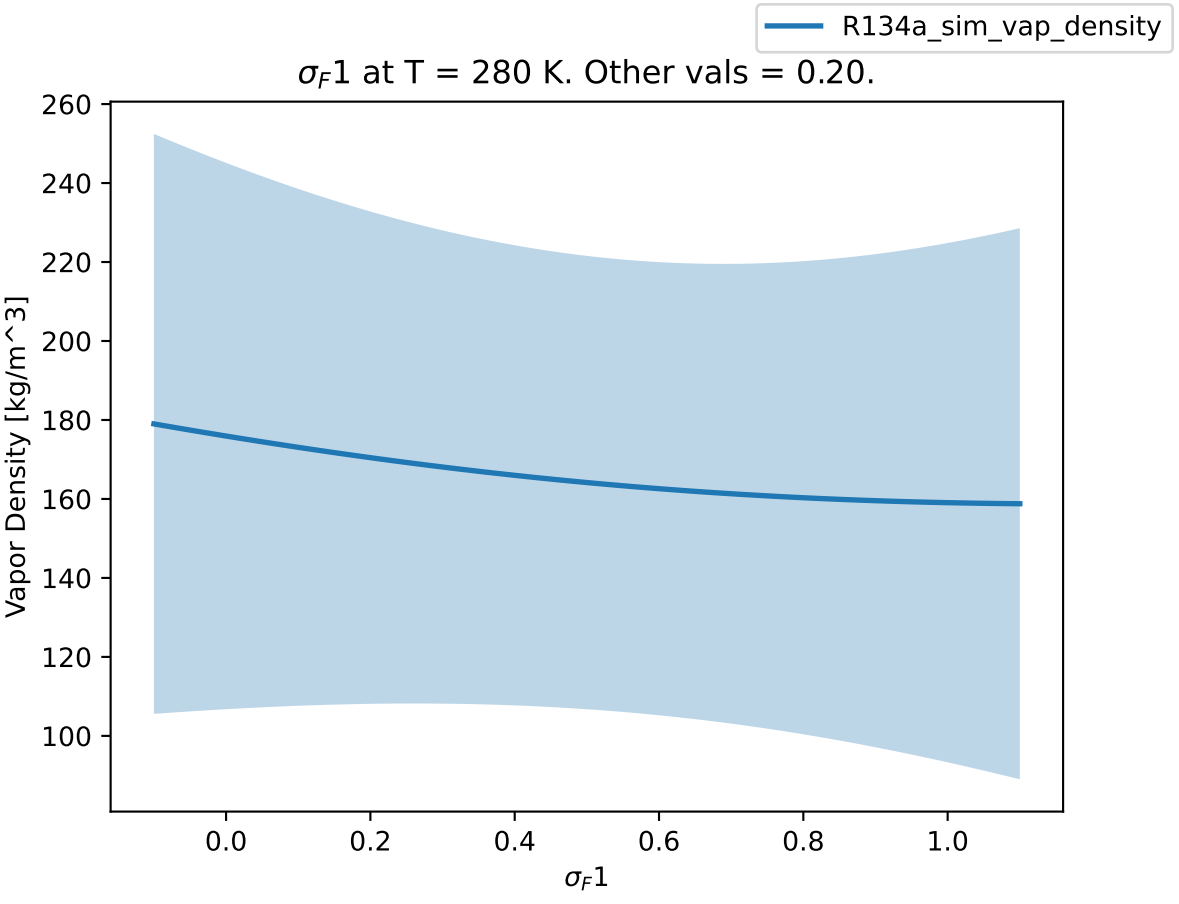

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
60
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

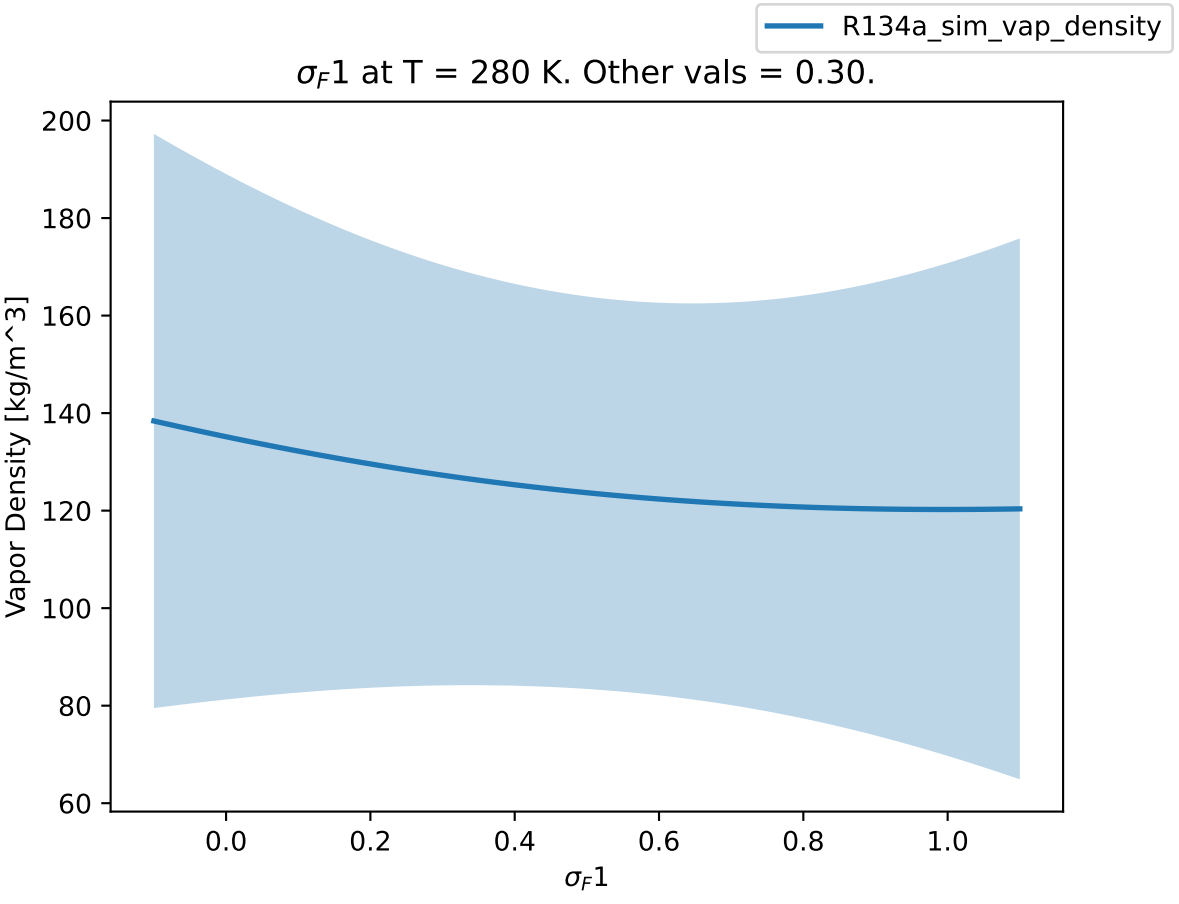

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
60
40
20
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

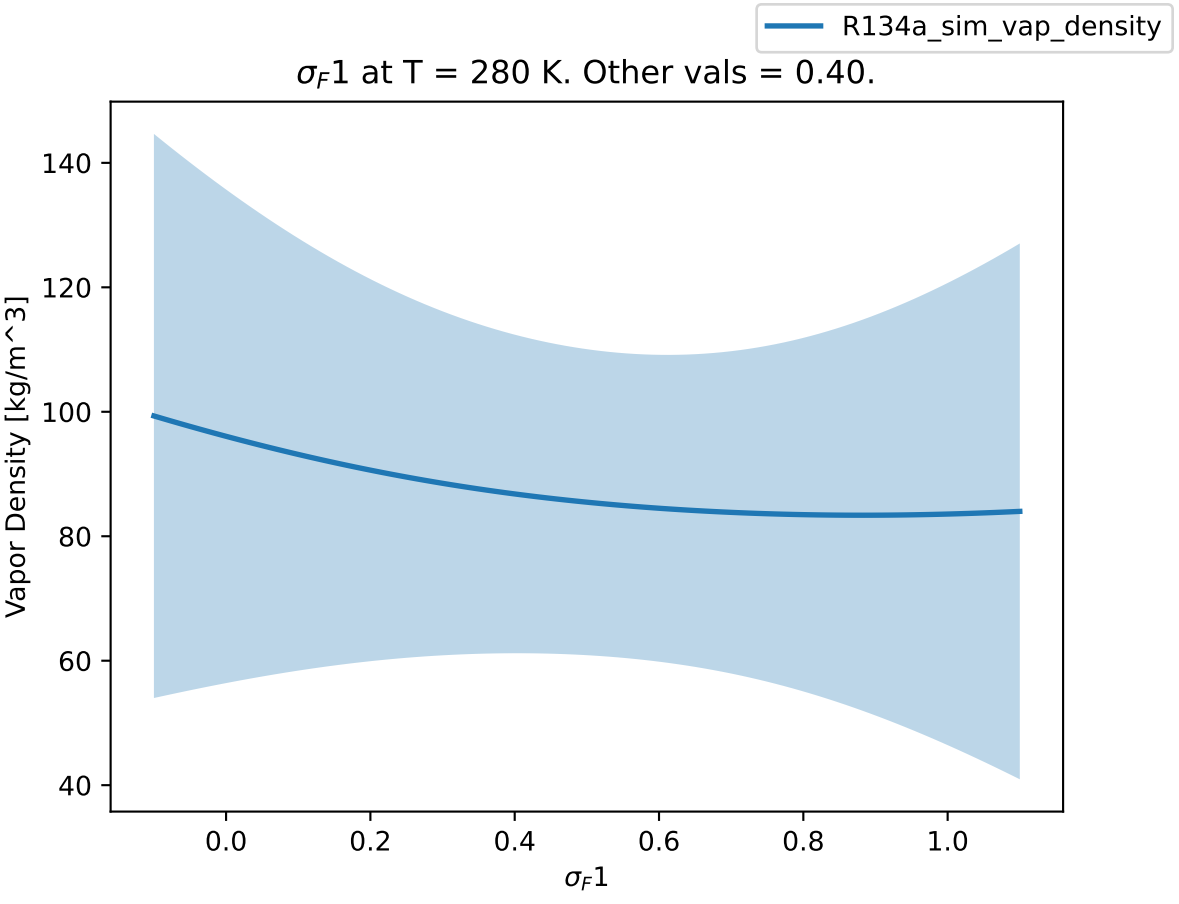

R134a_sim_vap_density
σ_C2 at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
50
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

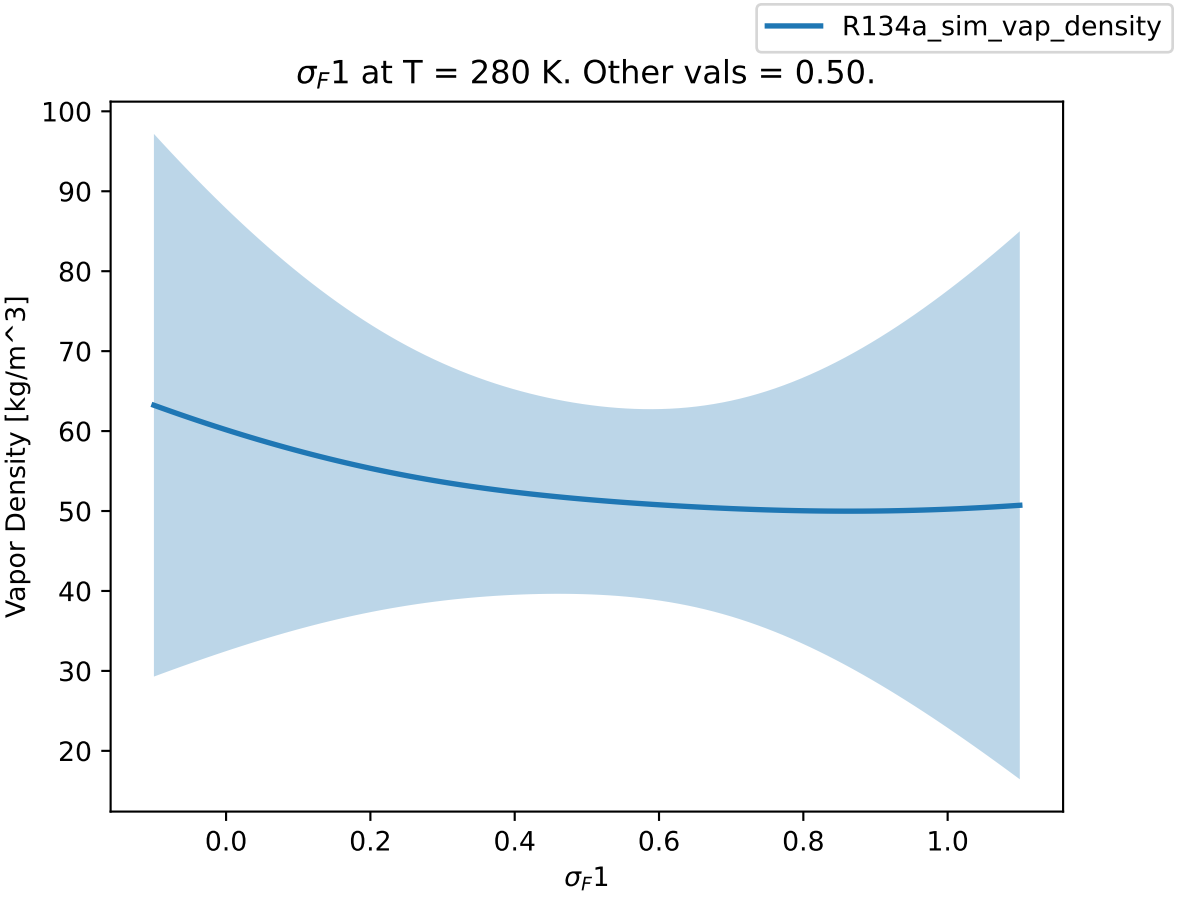

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

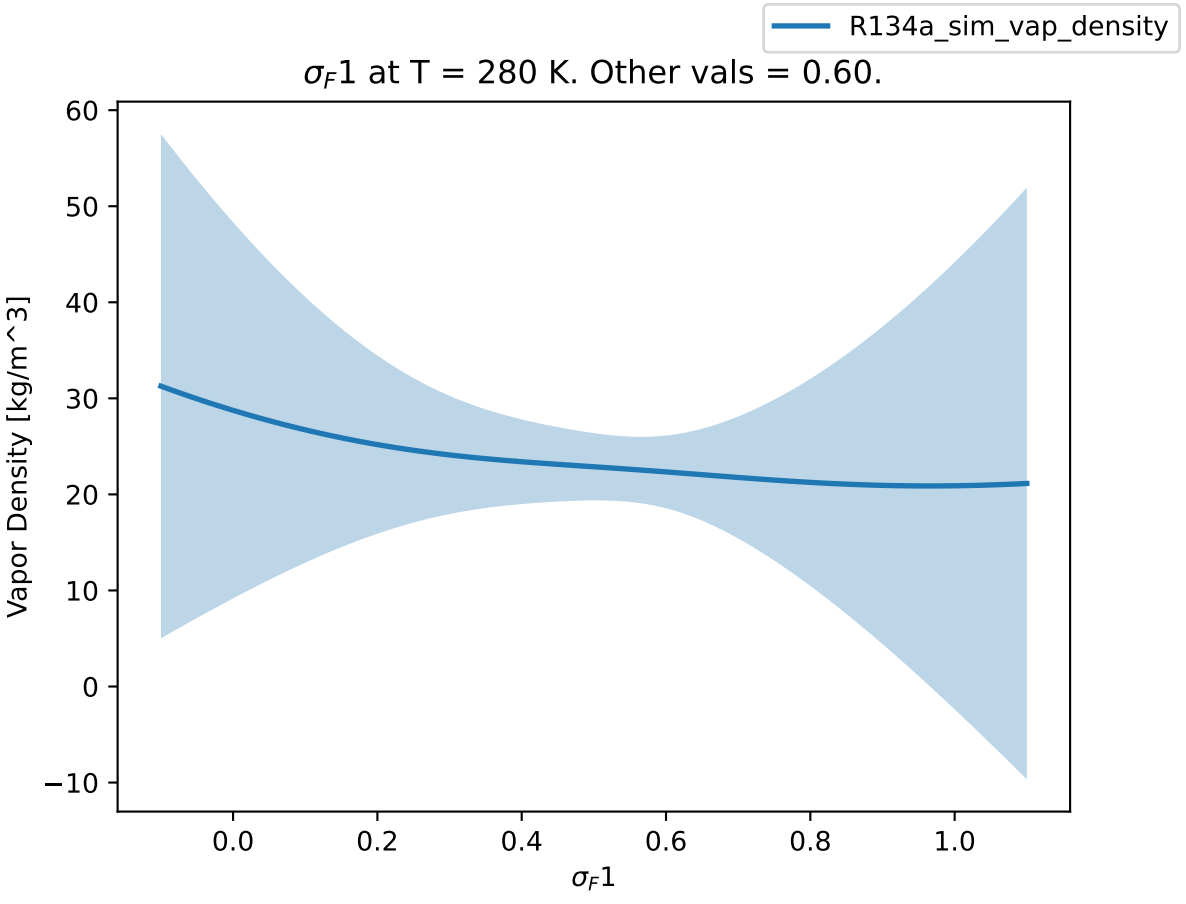

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
275
250
225
200
175
150
125
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

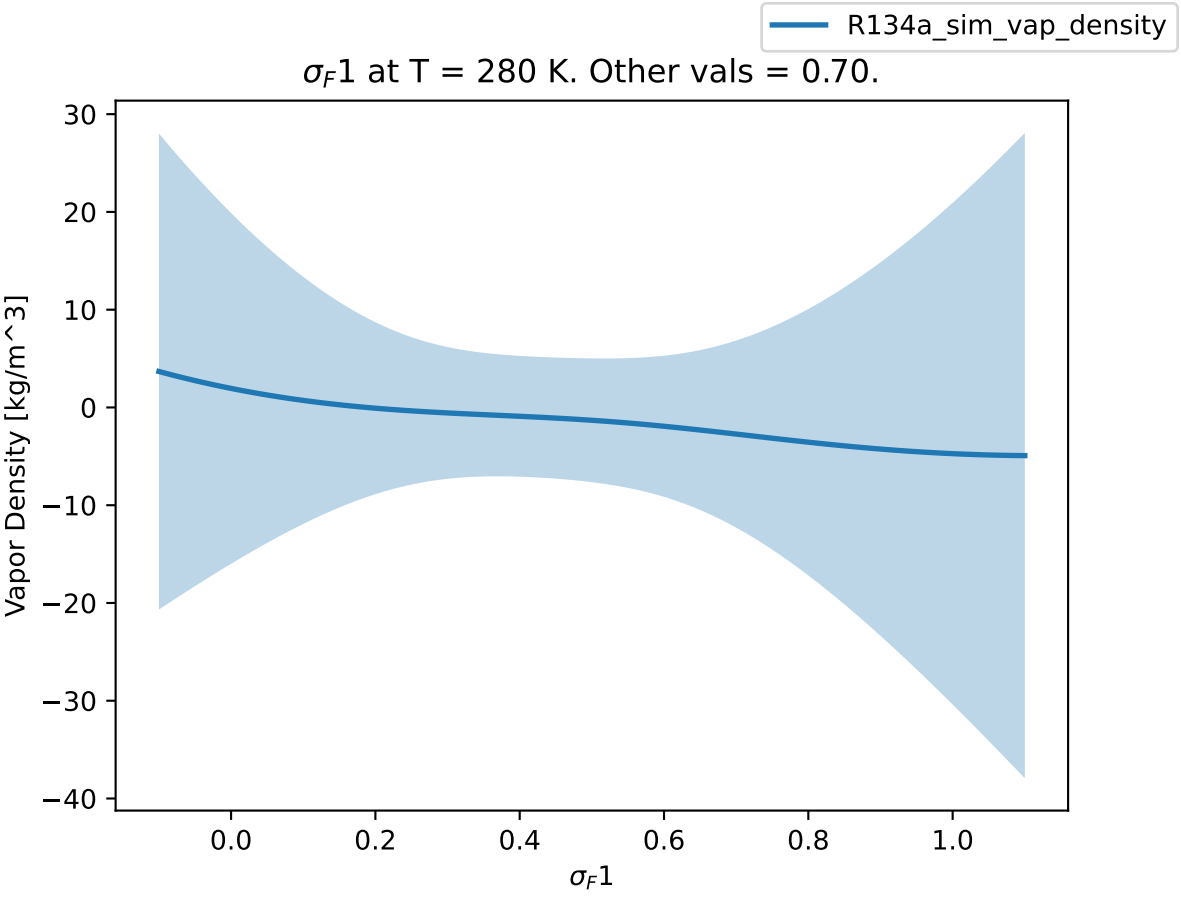

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
260
240
220
200
180
160
140
120
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

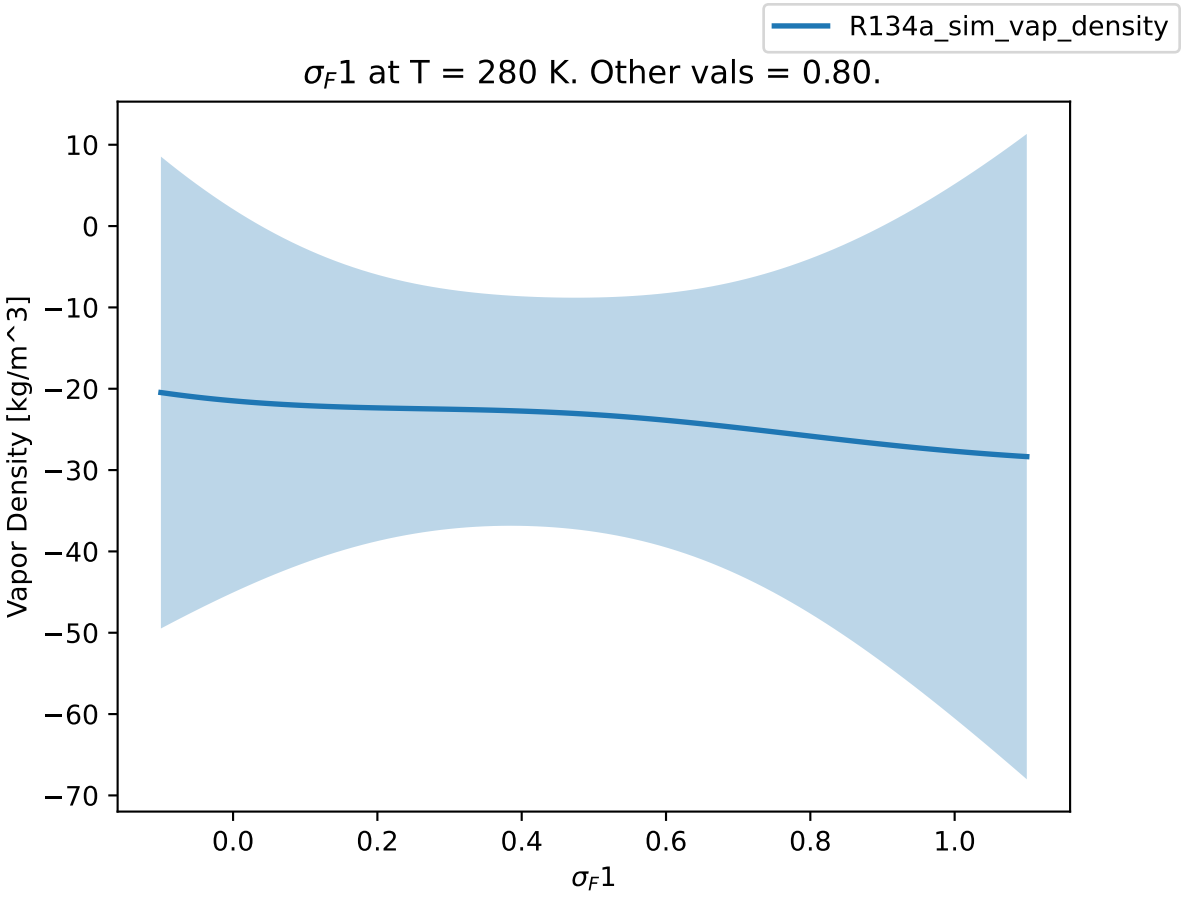

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
200
180
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

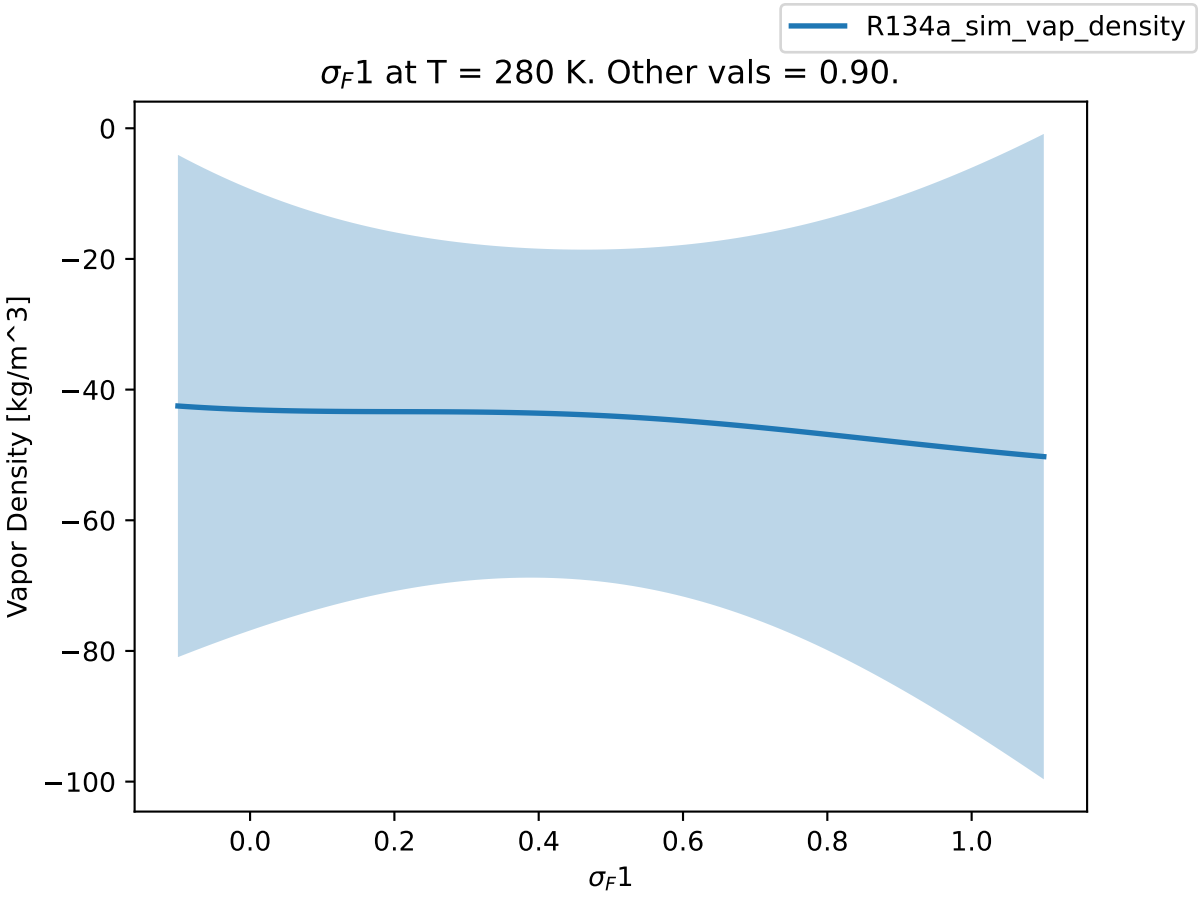

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

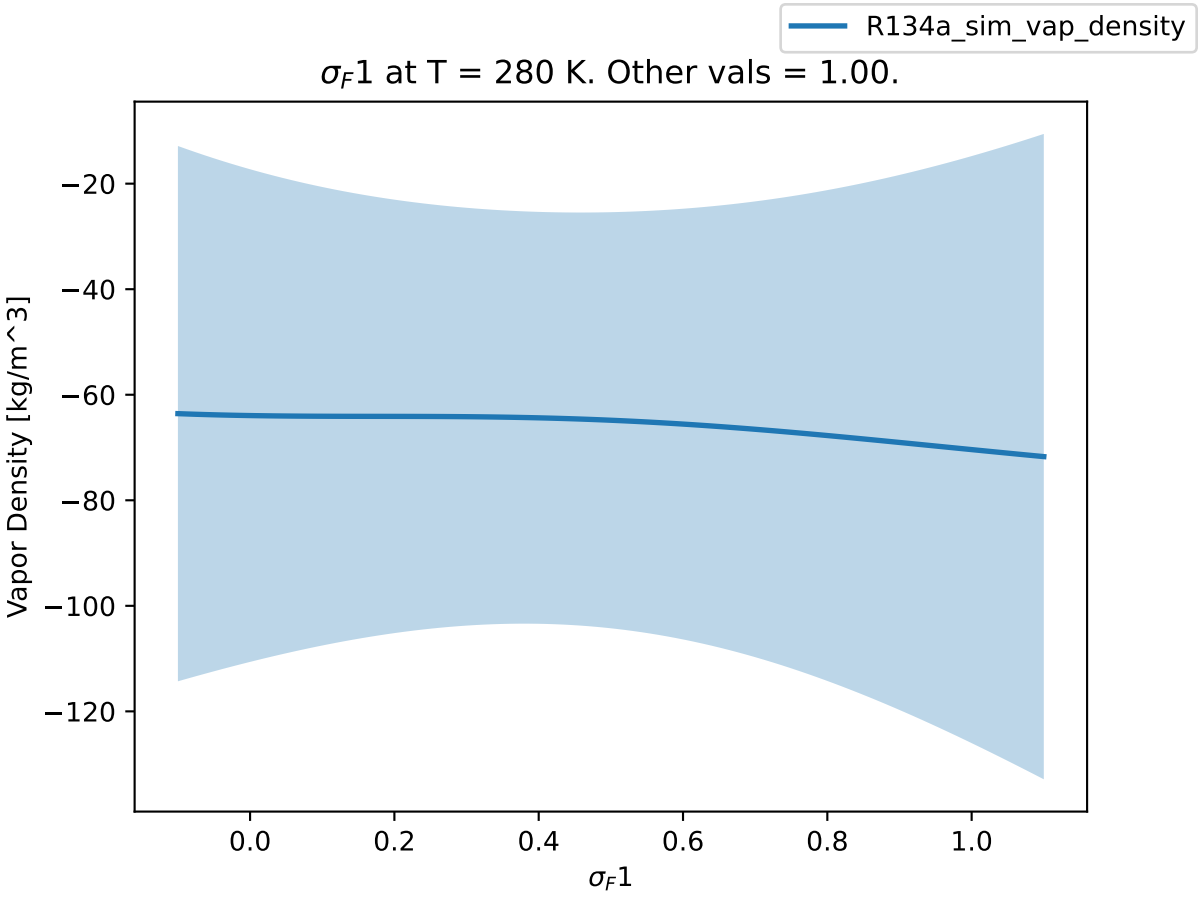

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
100
90
80
70
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

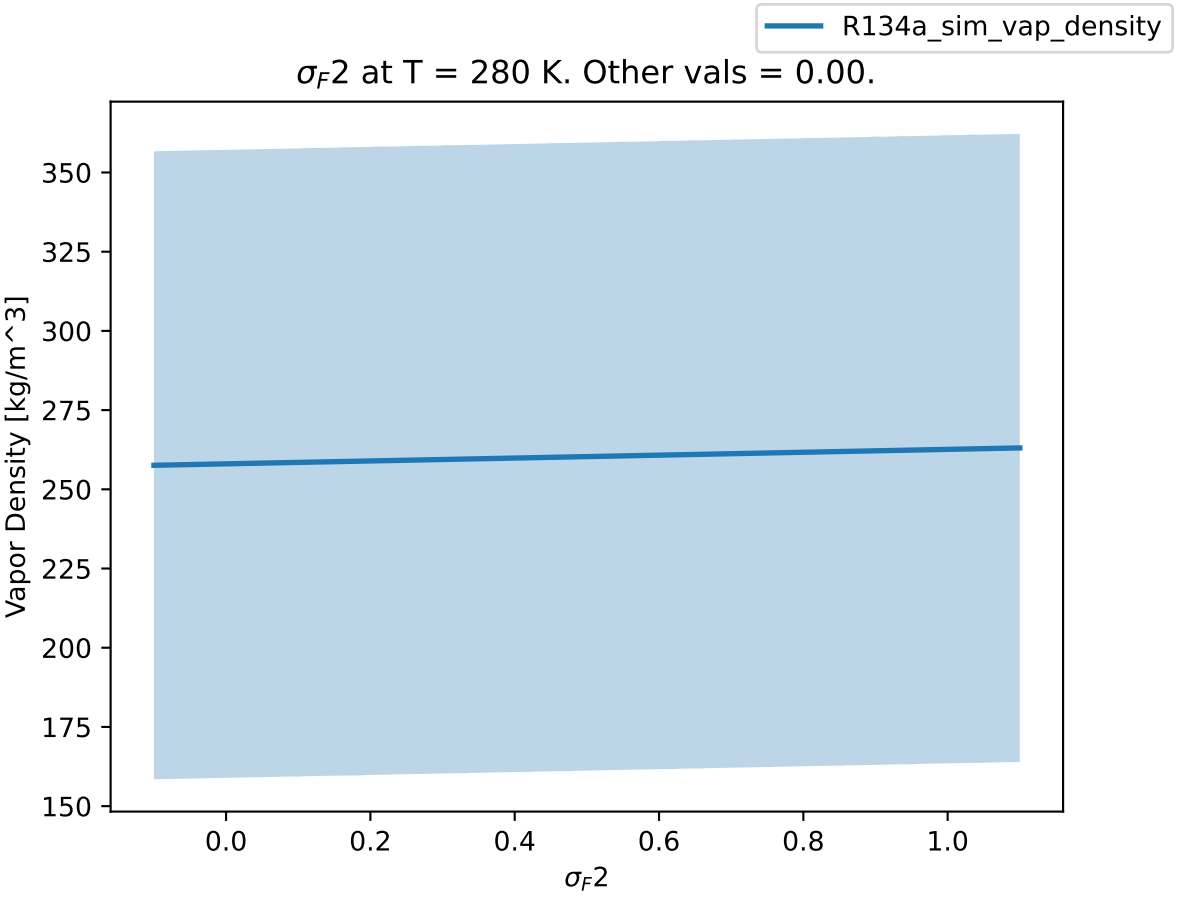

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
60
50
40
30
20
10
0
−10
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

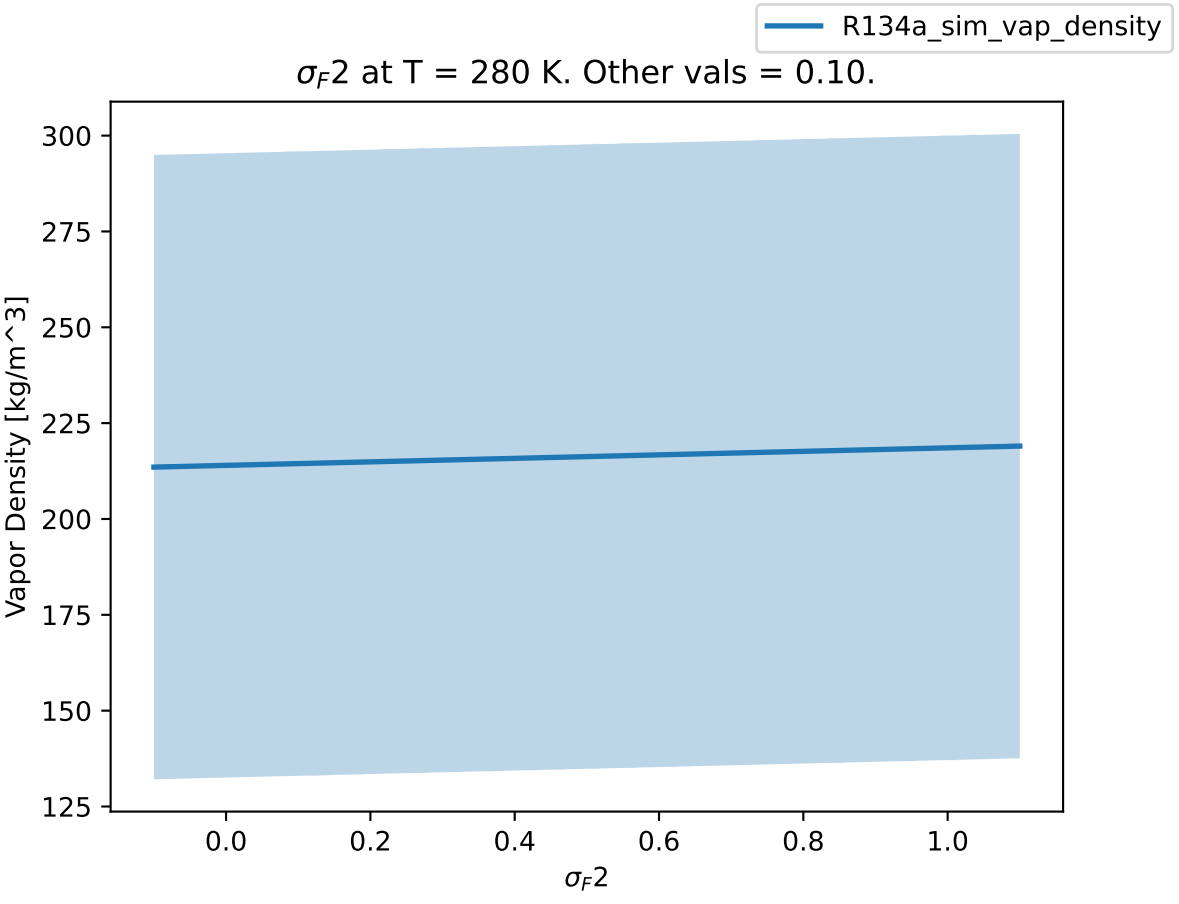

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
30
20
10
0
−10
−20
−30
−40
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

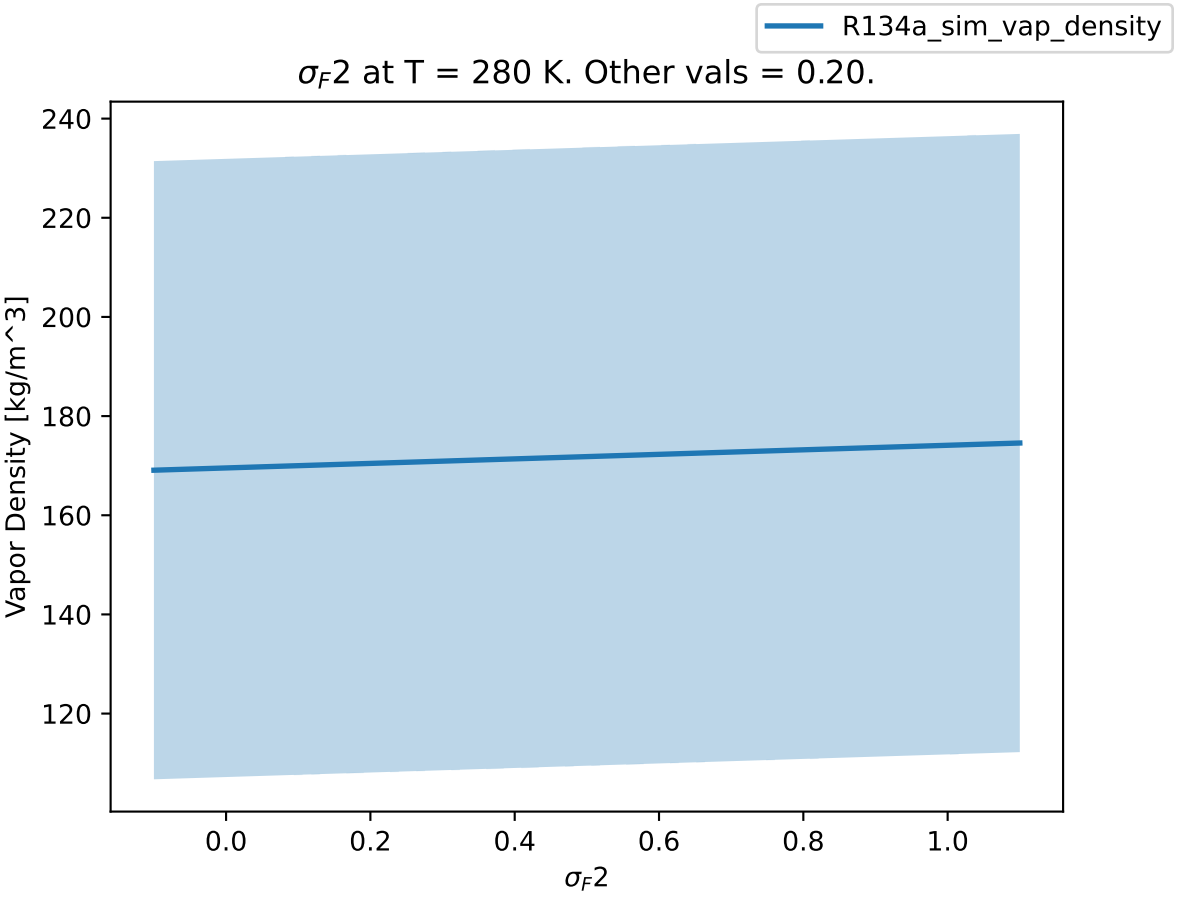

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
10
0
−10
−20
−30
−40
−50
−60
−70
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

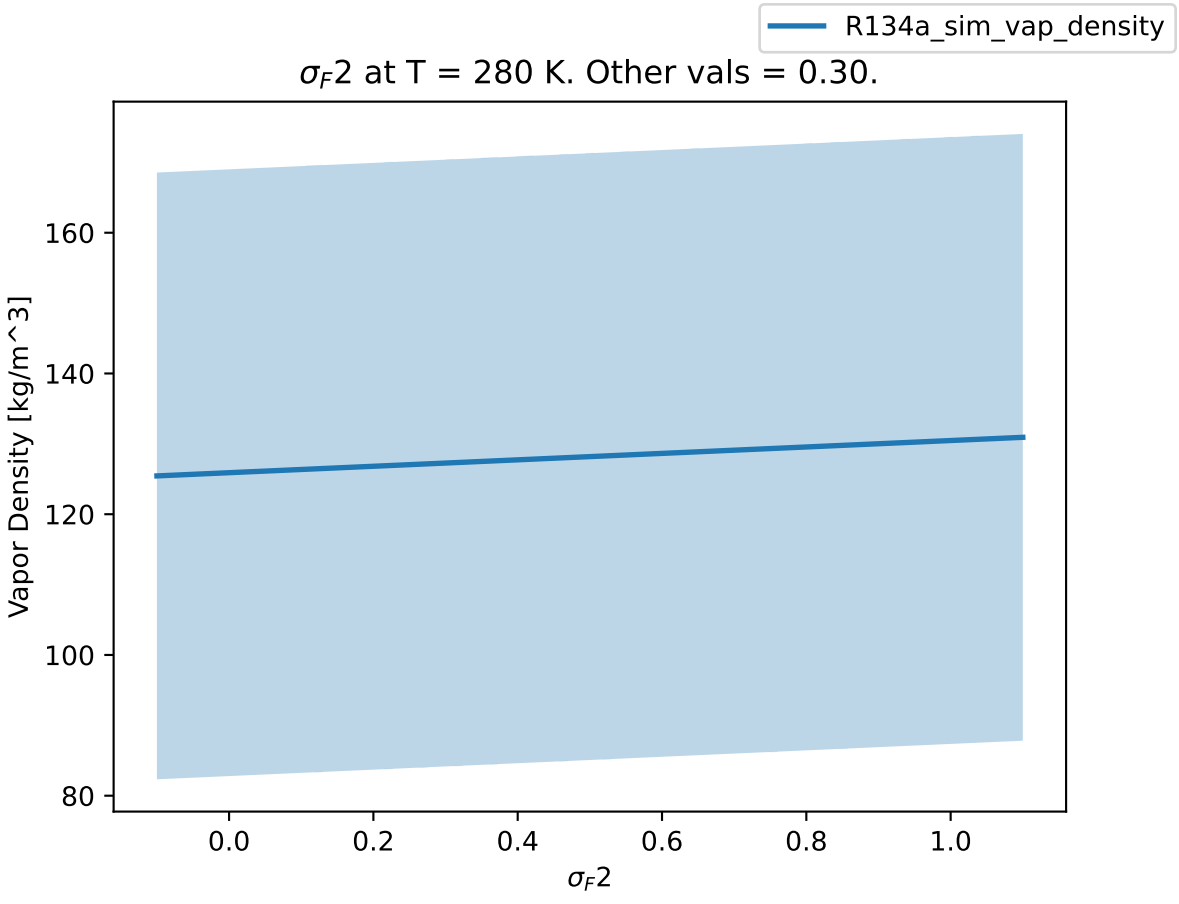

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

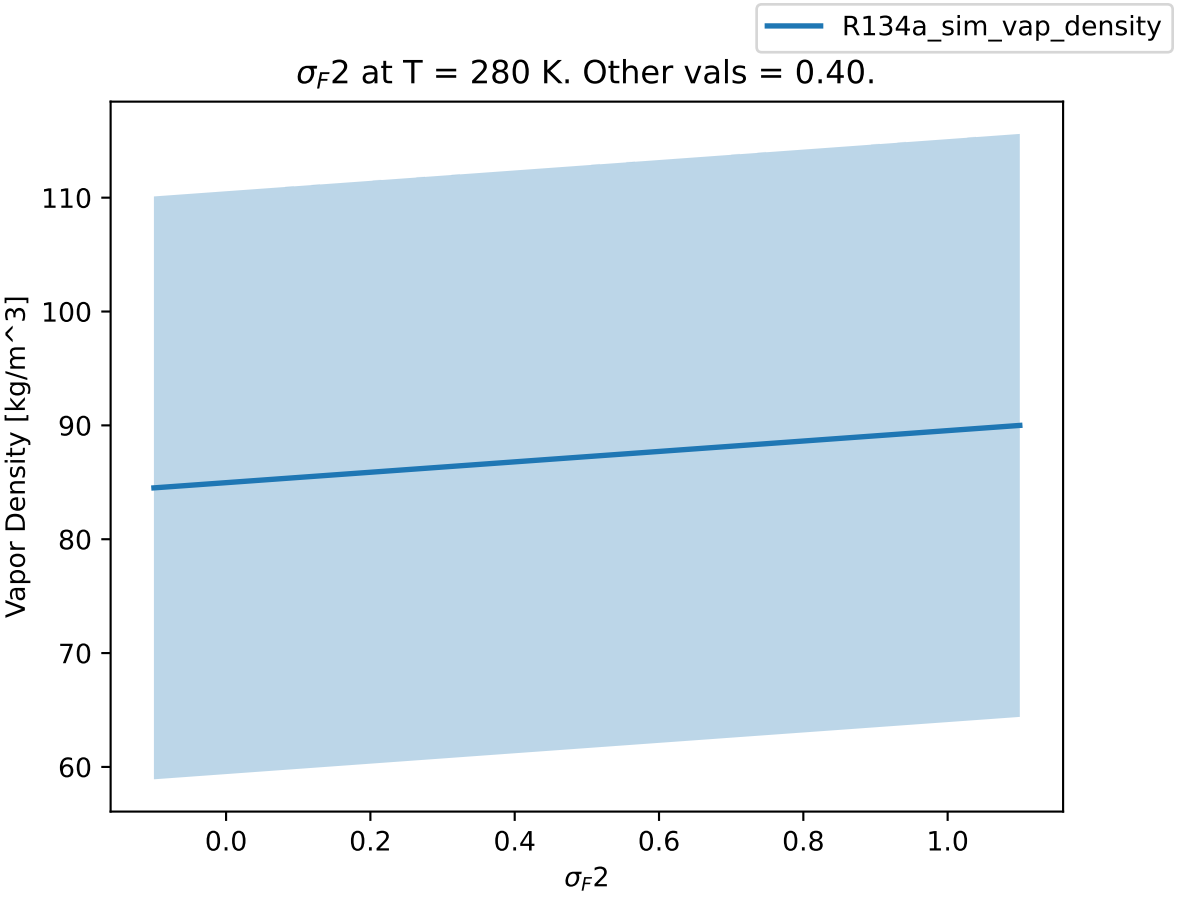

R134a_sim_vap_density
σ_F1 at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
−20
−40
−60
−80
−100
−120
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

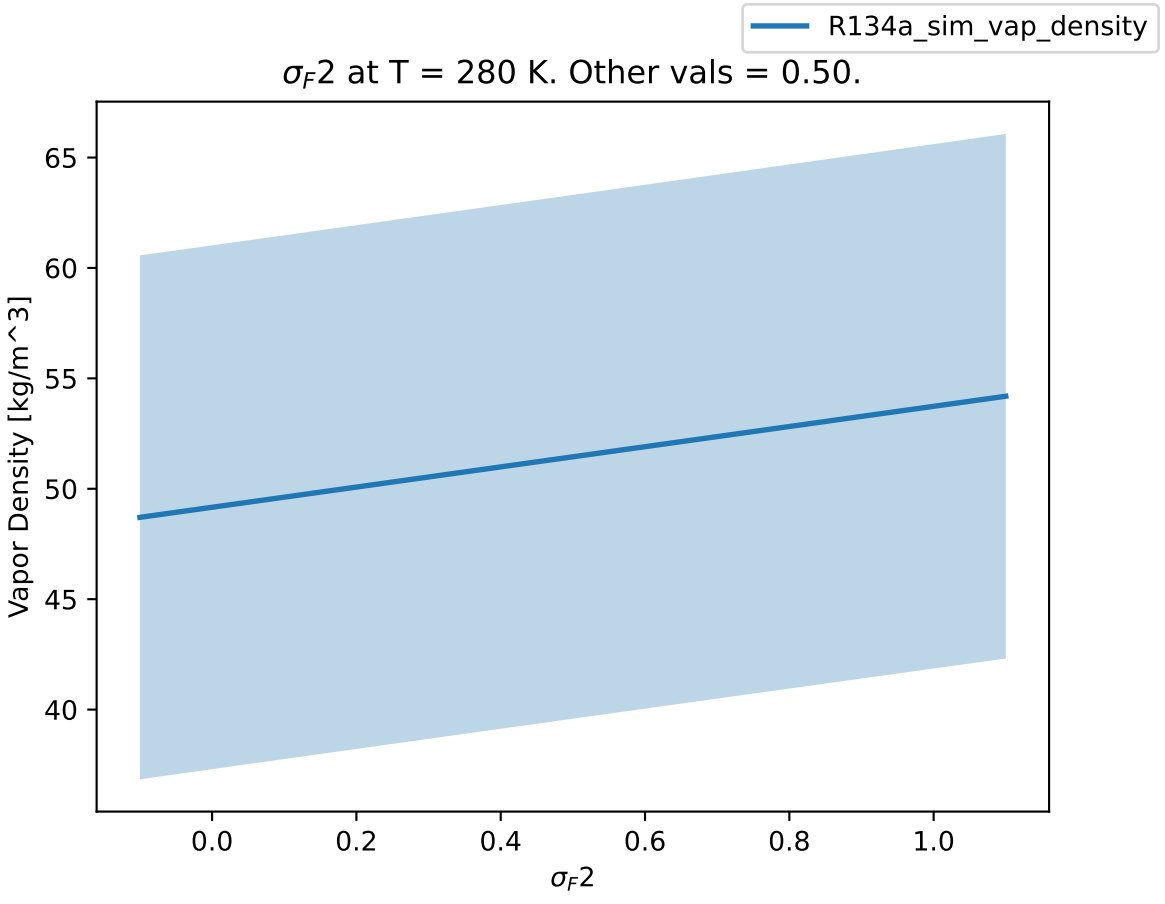

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
325
300
275
250
225
200
175
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

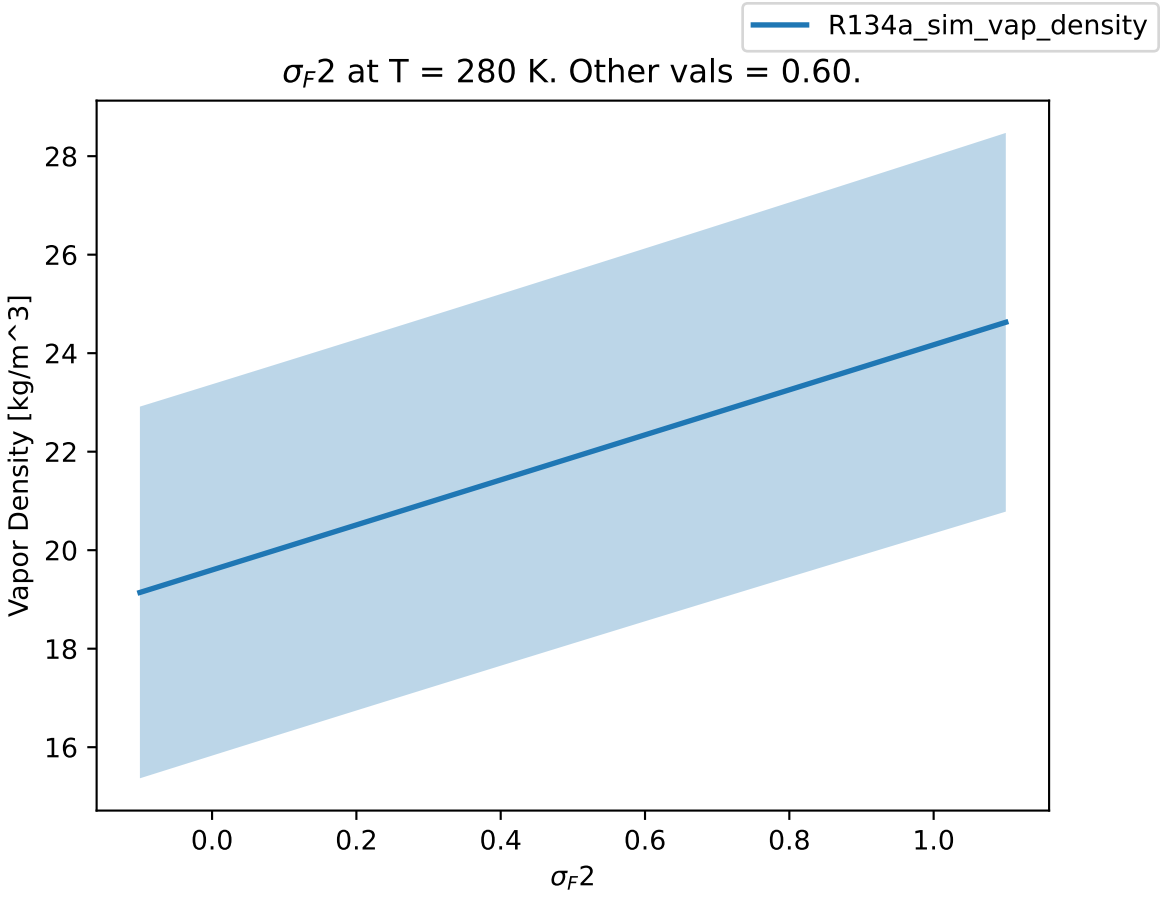

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
275
250
225
200
175
150
125
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

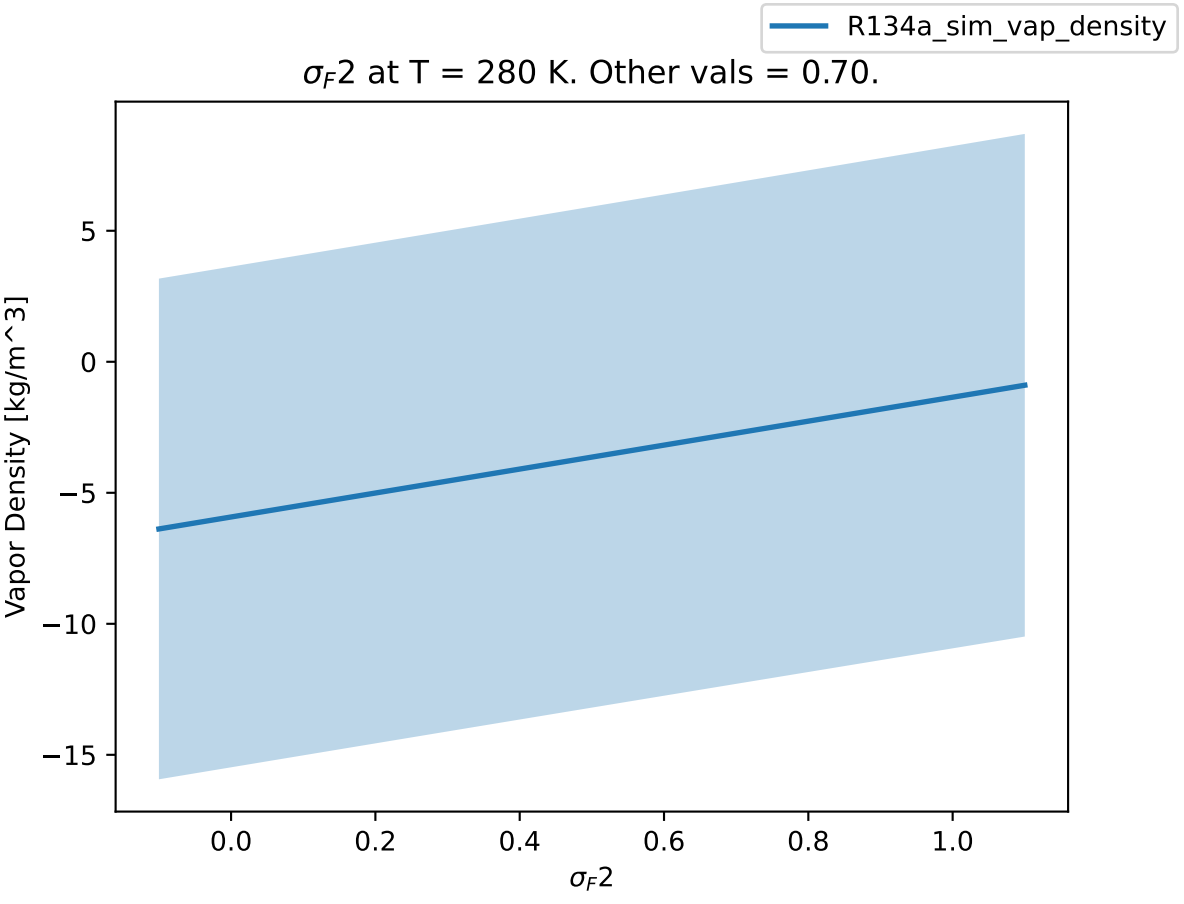

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
240
220
200
180
160
140
120
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

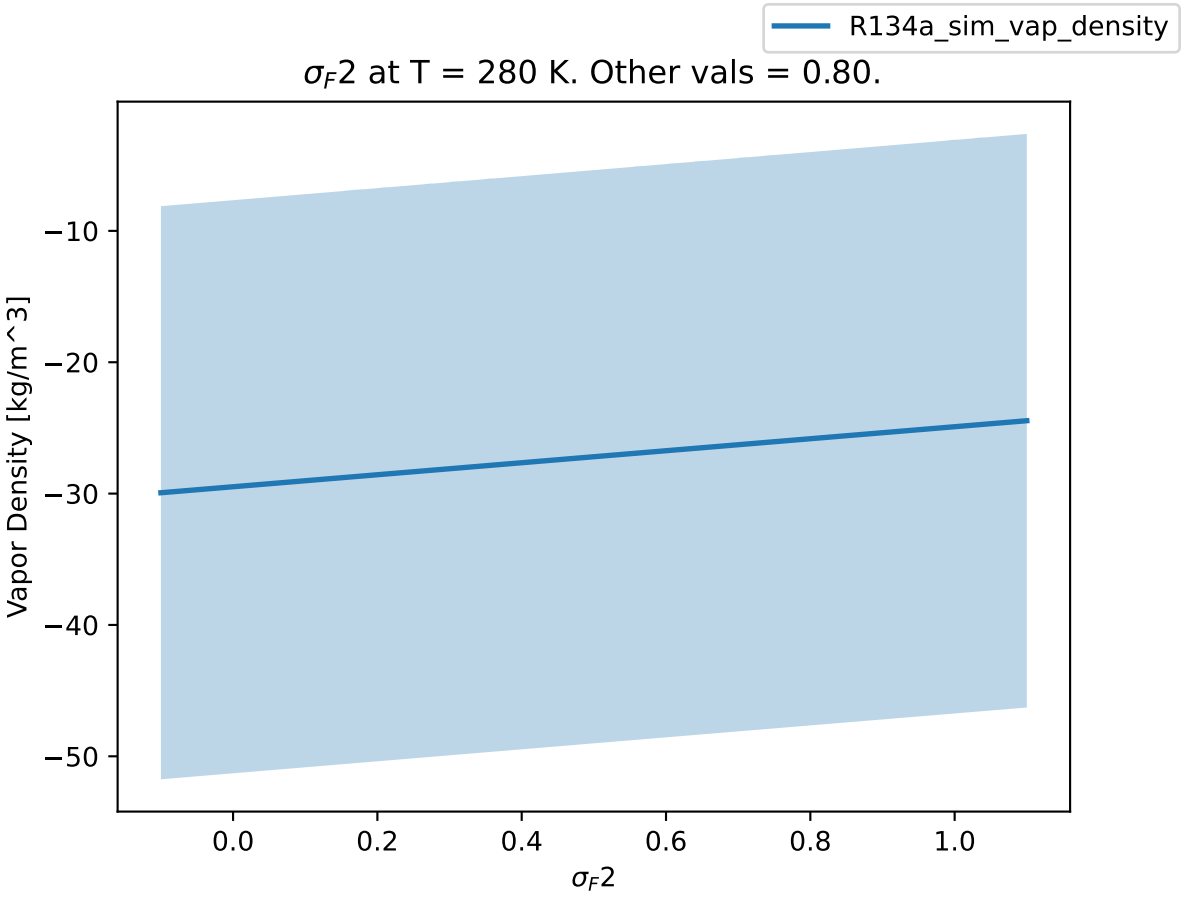

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
160
140
120
100
80
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

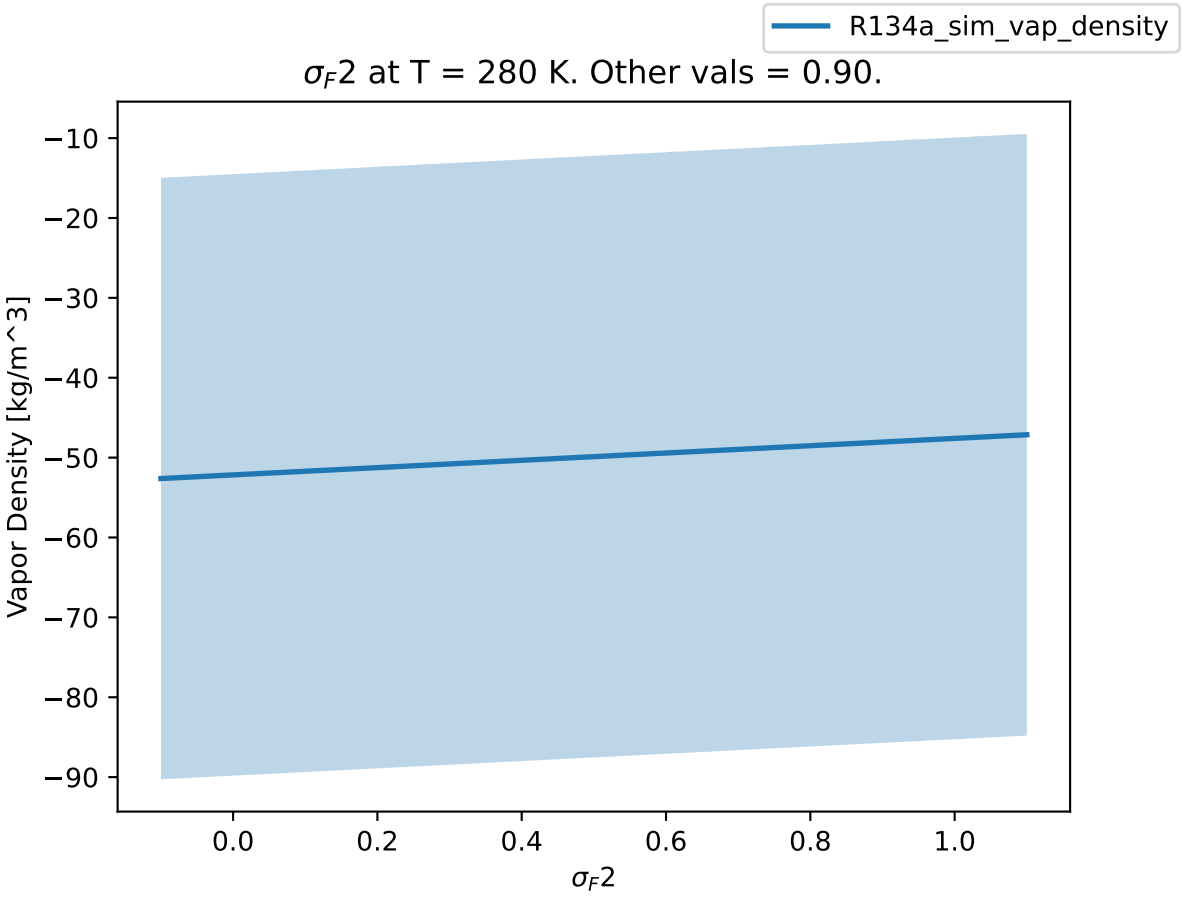

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
110
100
90
80
70
60
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

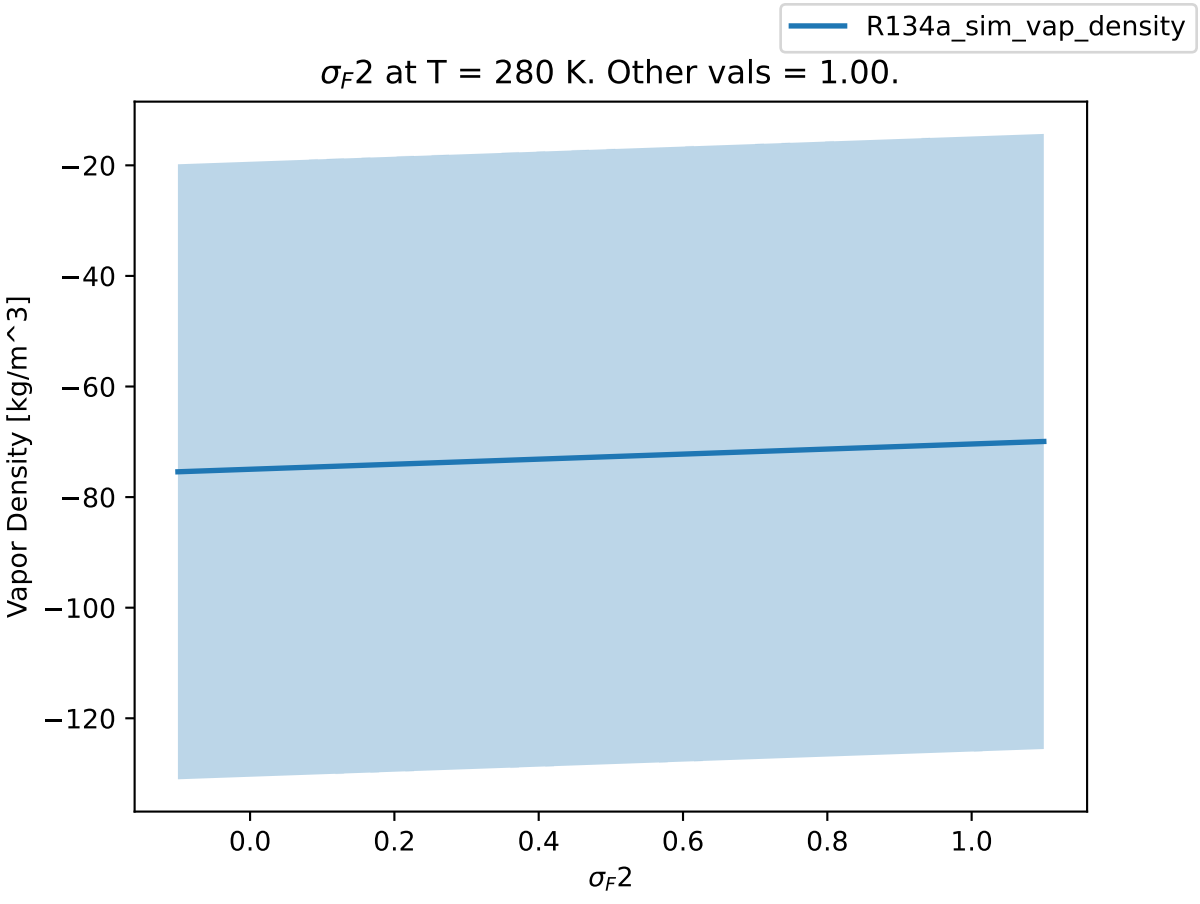

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
65
60
55
50
45
40
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

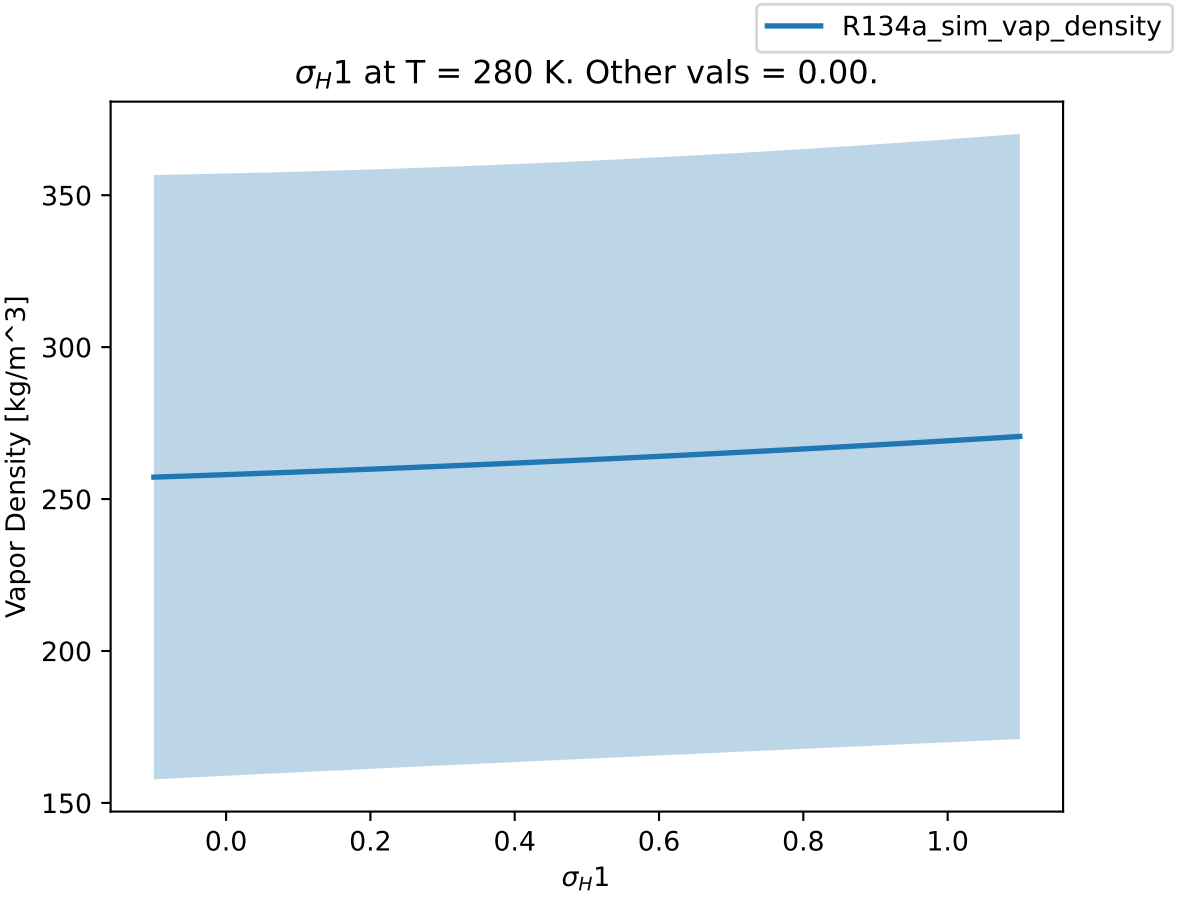

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
28
26
24
22
20
18
16
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

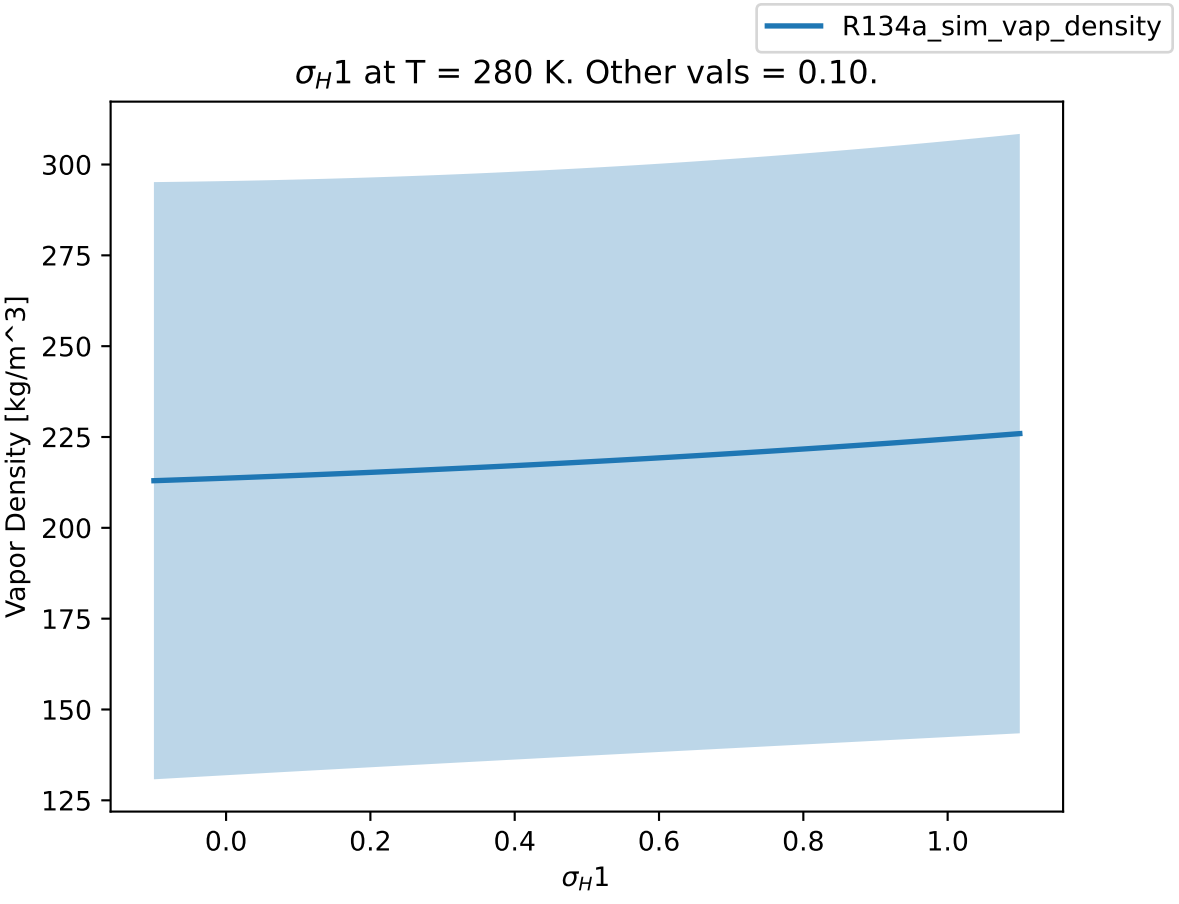

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

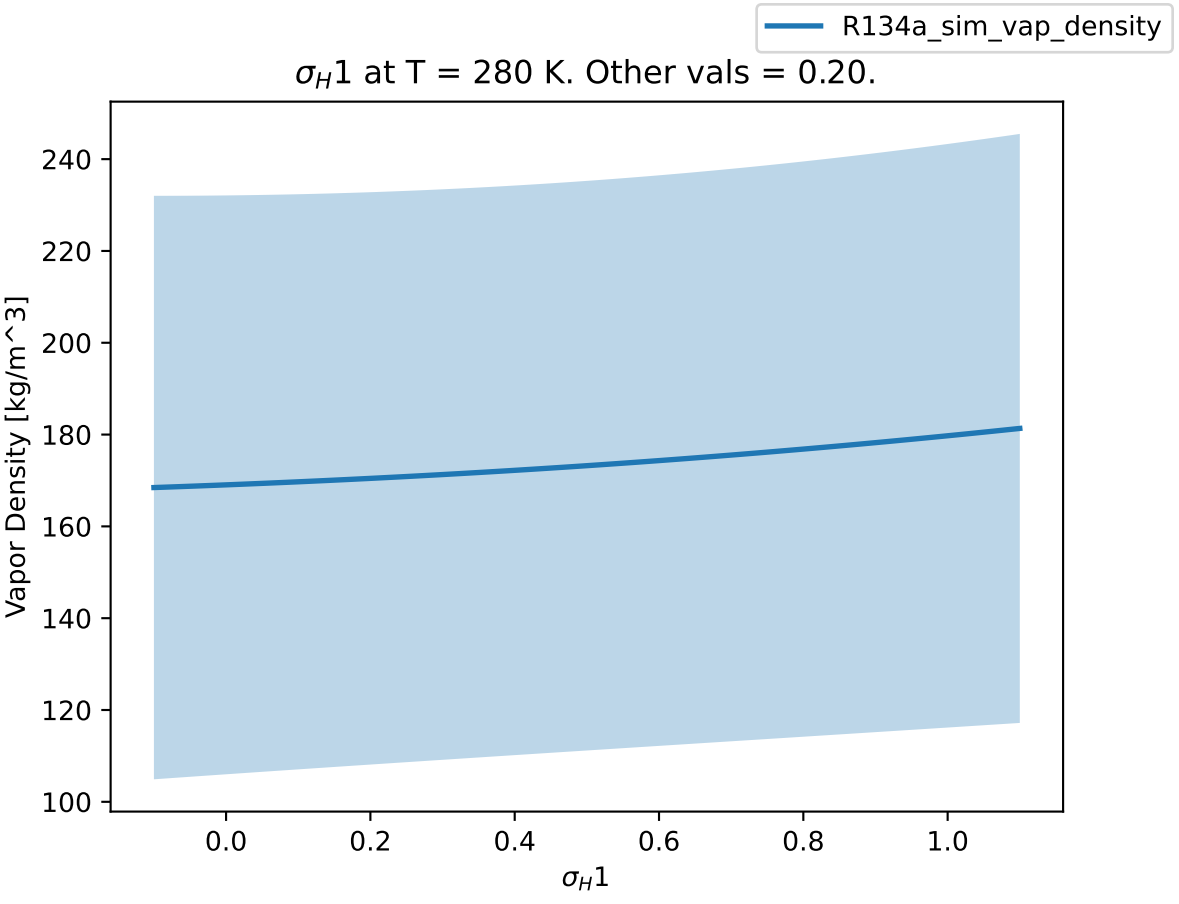

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
−10
−20
−30
−40
−50
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

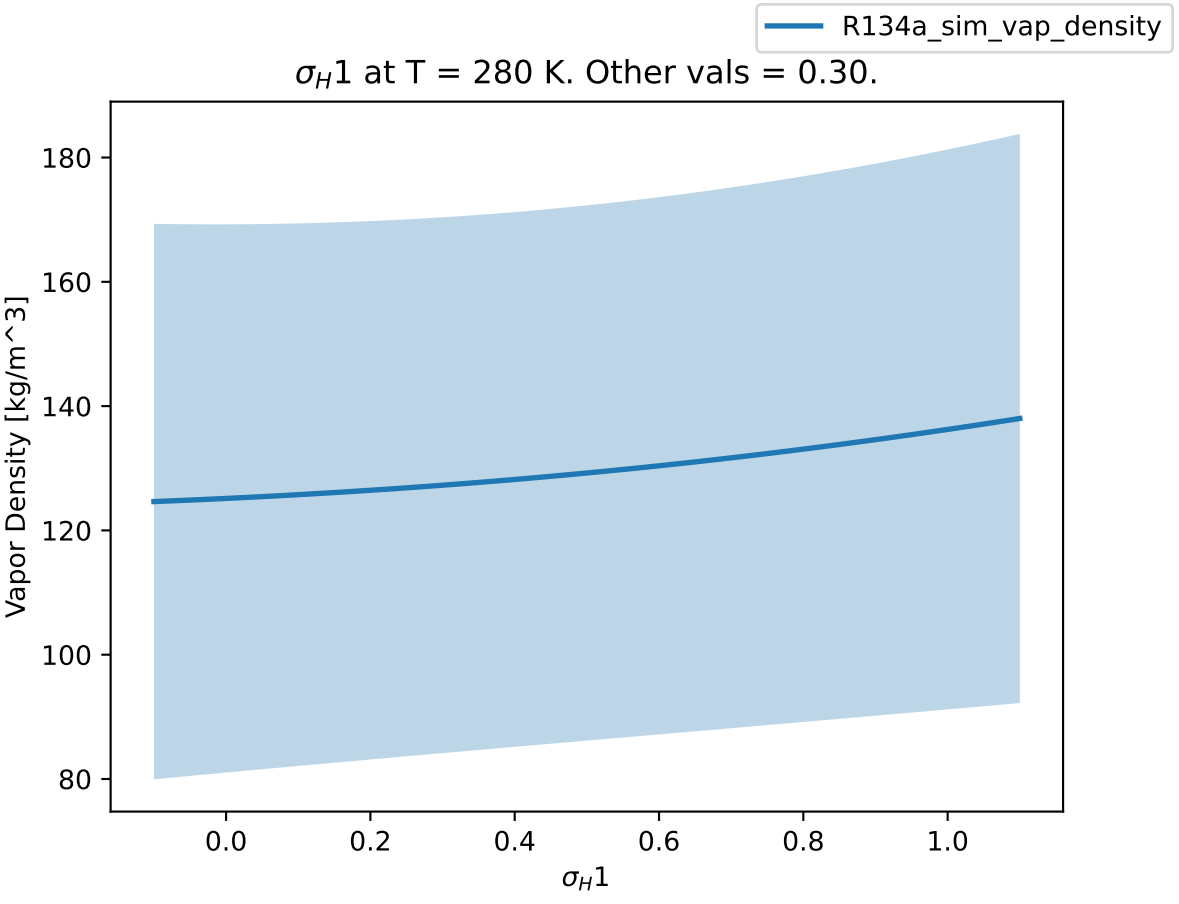

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
−10
−20
−30
−40
−50
−60
−70
−80
−90
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

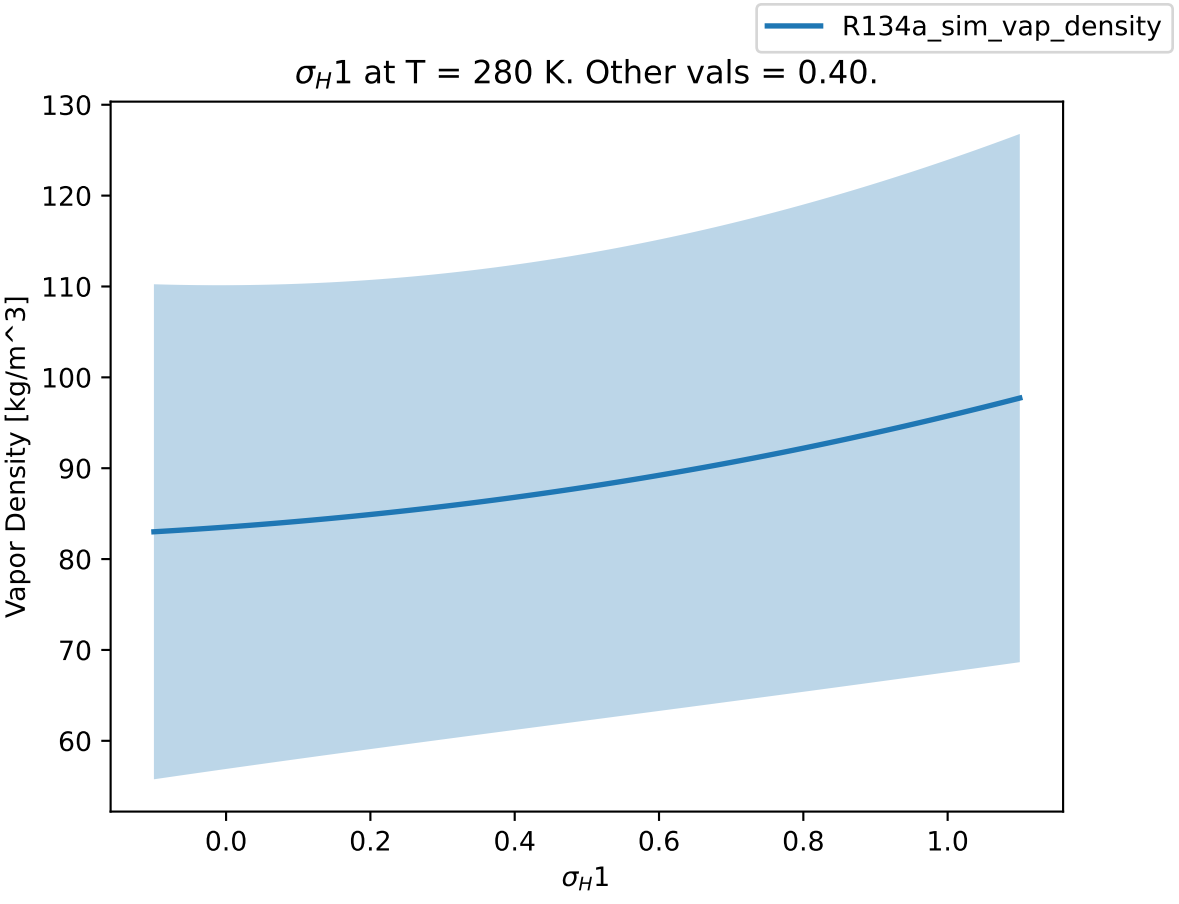

R134a_sim_vap_density
σ_F2 at T = 280 K. Other vals = 1.00.
−20
−40
−60
−80
−100
−120
Vapor Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

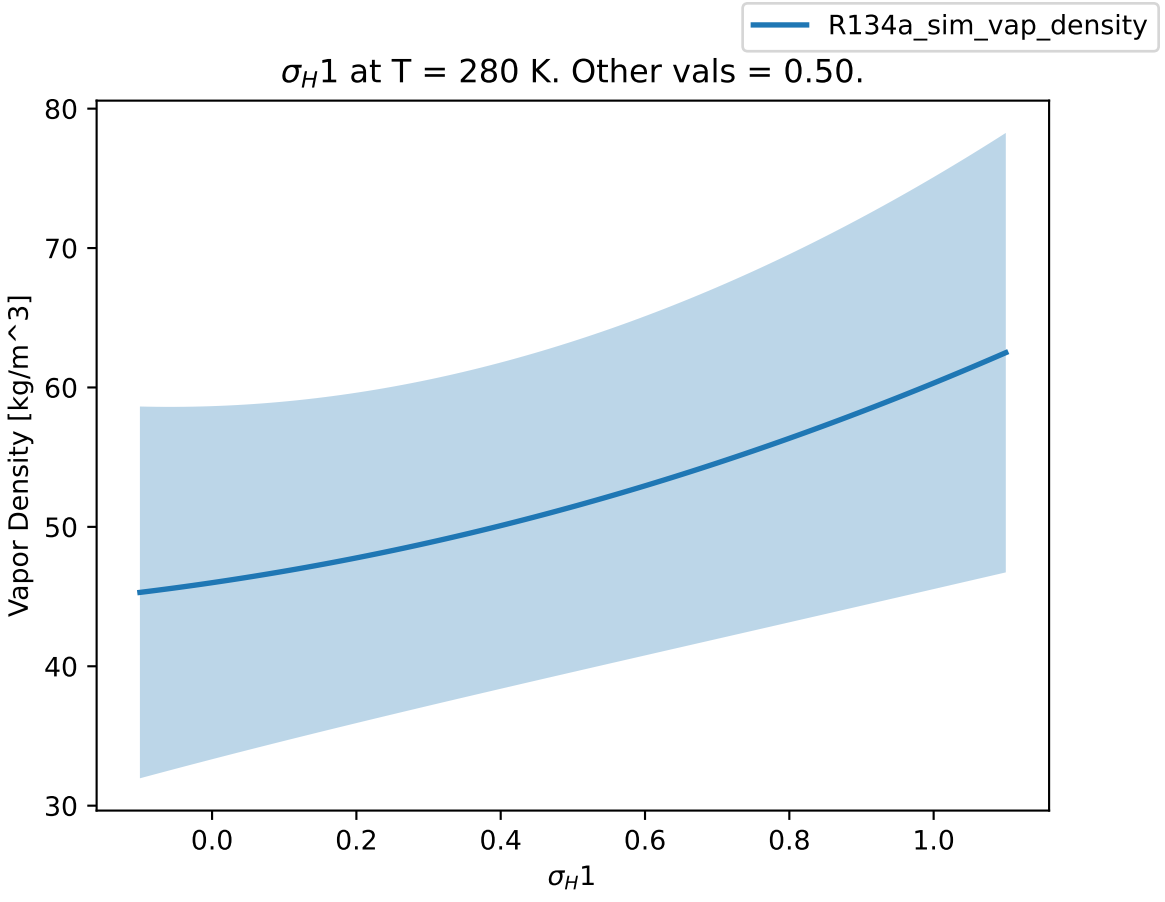

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

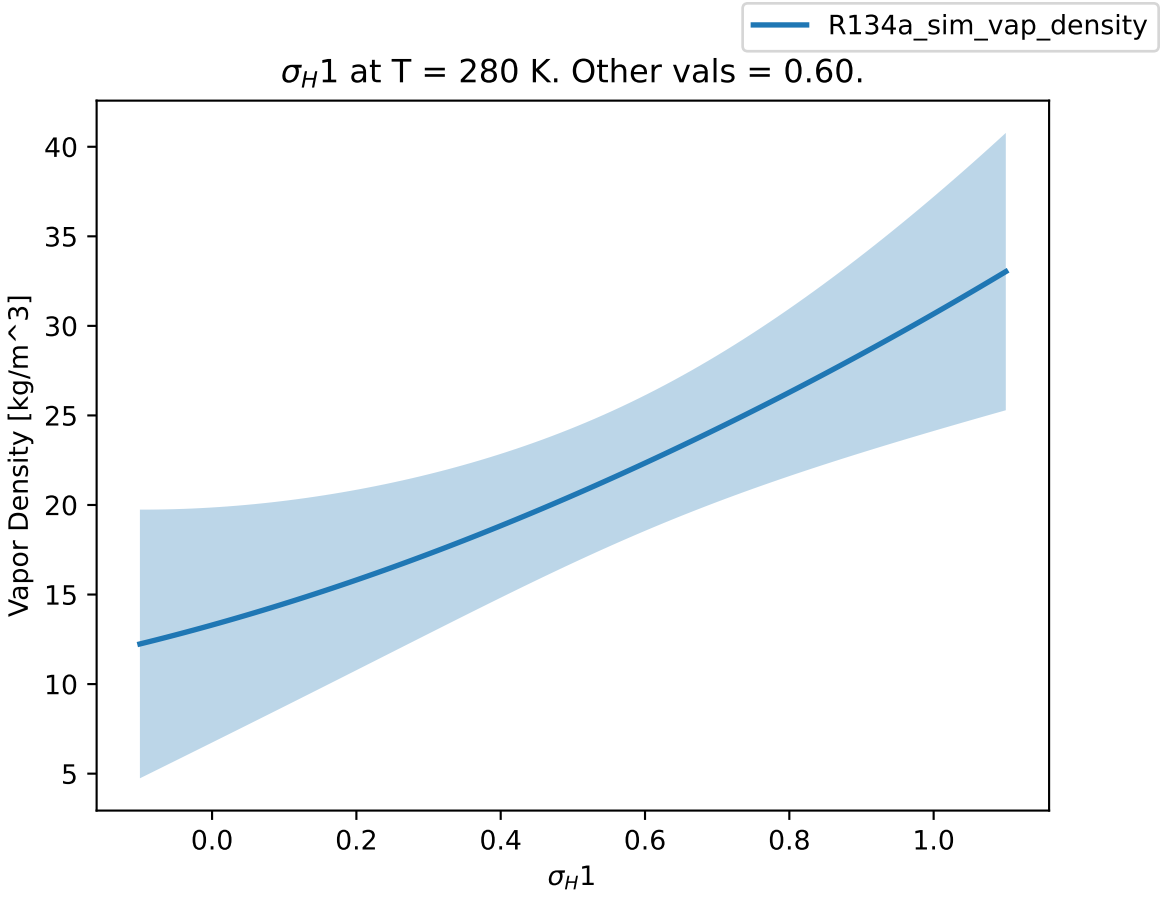

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
275
250
225
200
175
150
125
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

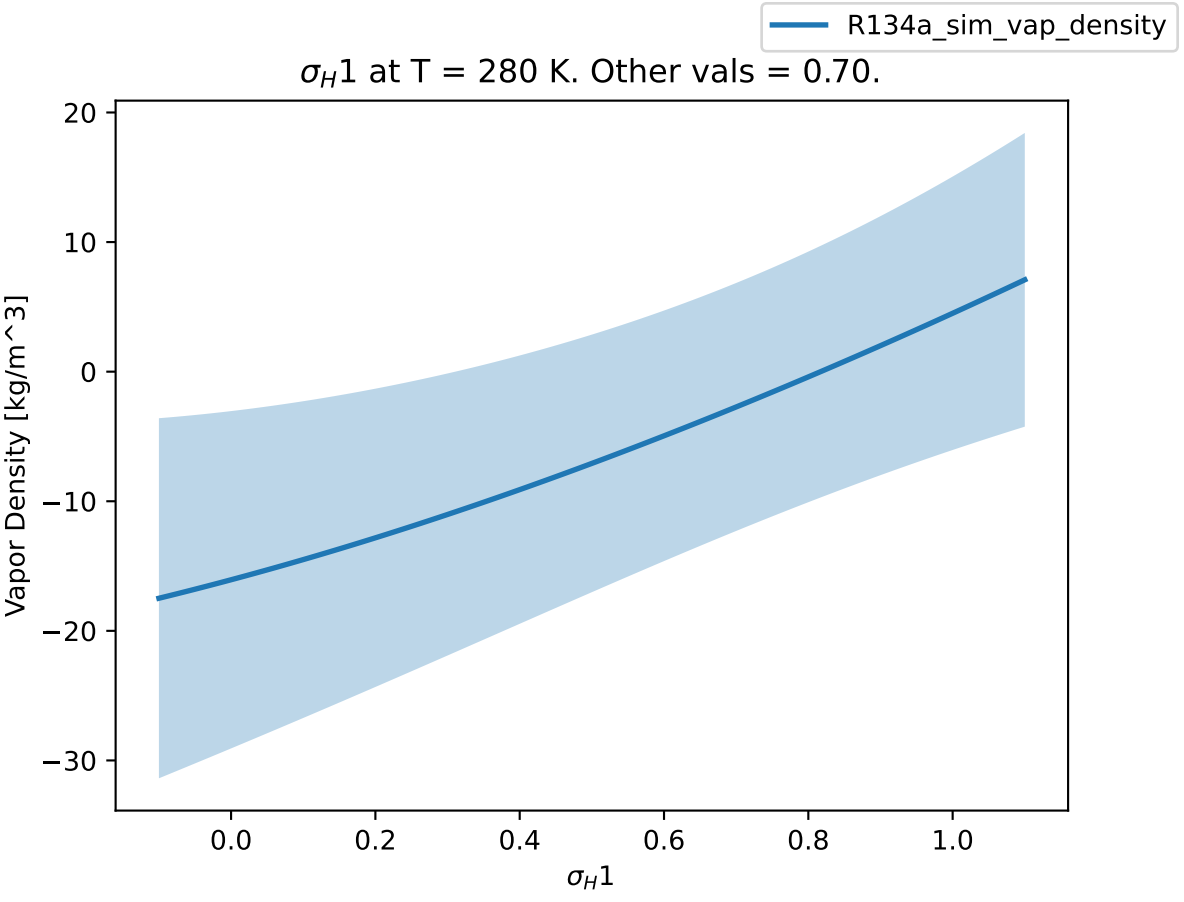

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
240
220
200
180
160
140
120
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

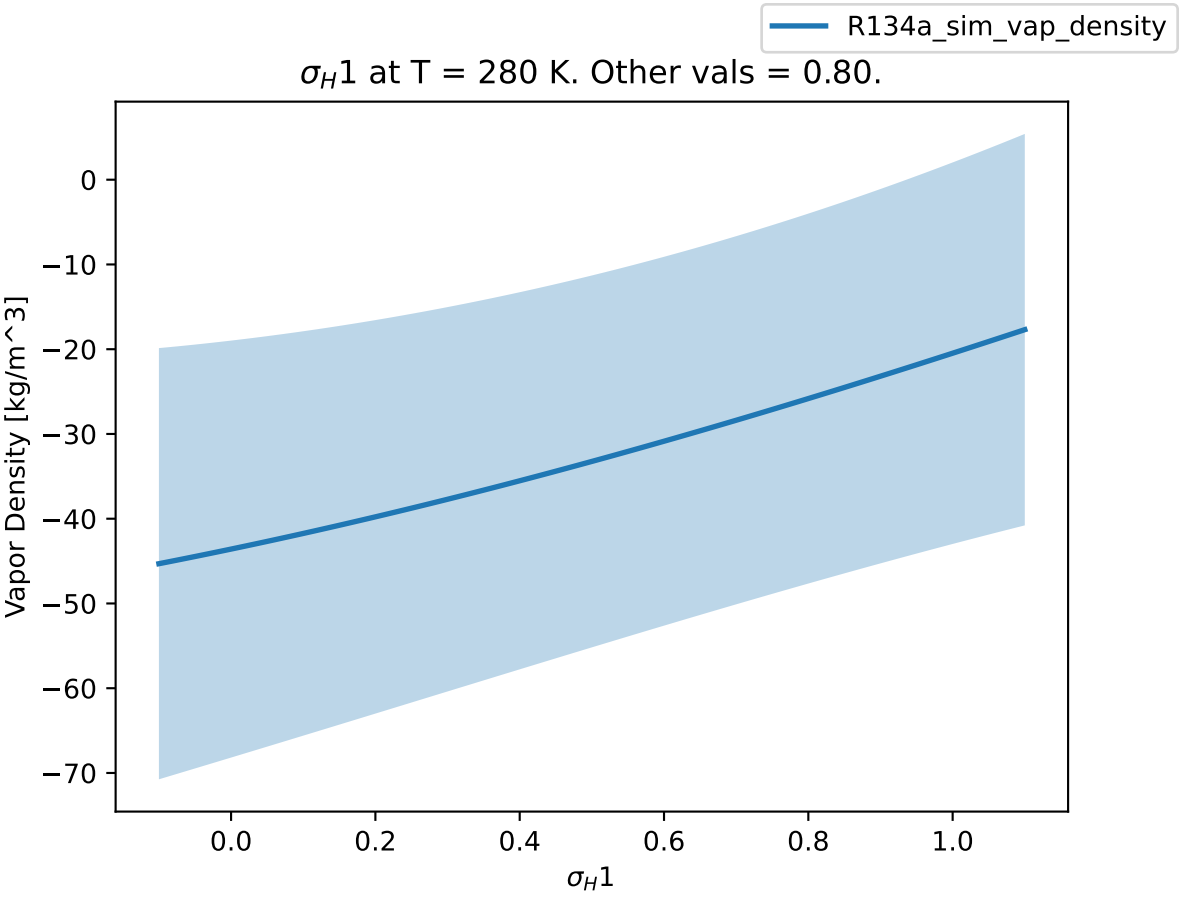

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
180
160
140
120
100
80
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

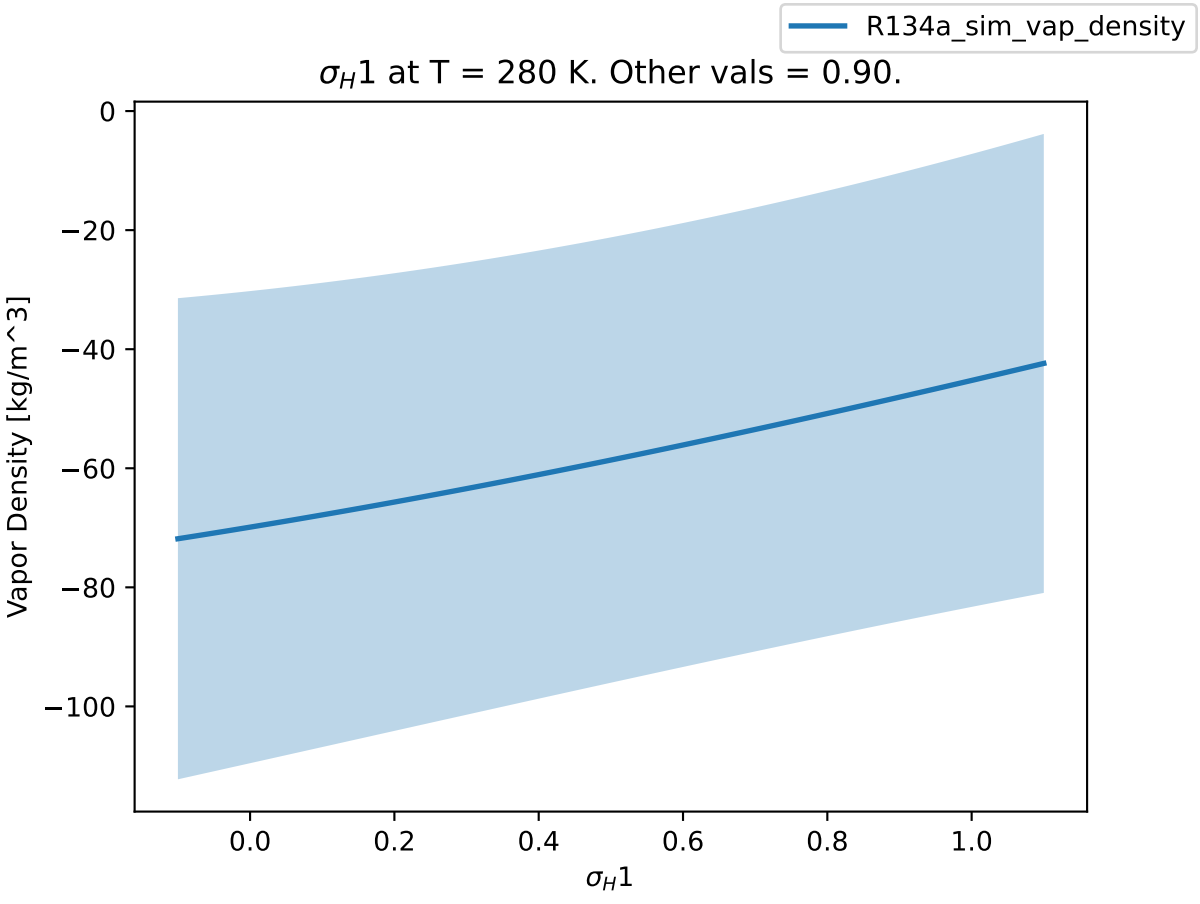

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
130
120
110
100
90
80
70
60
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

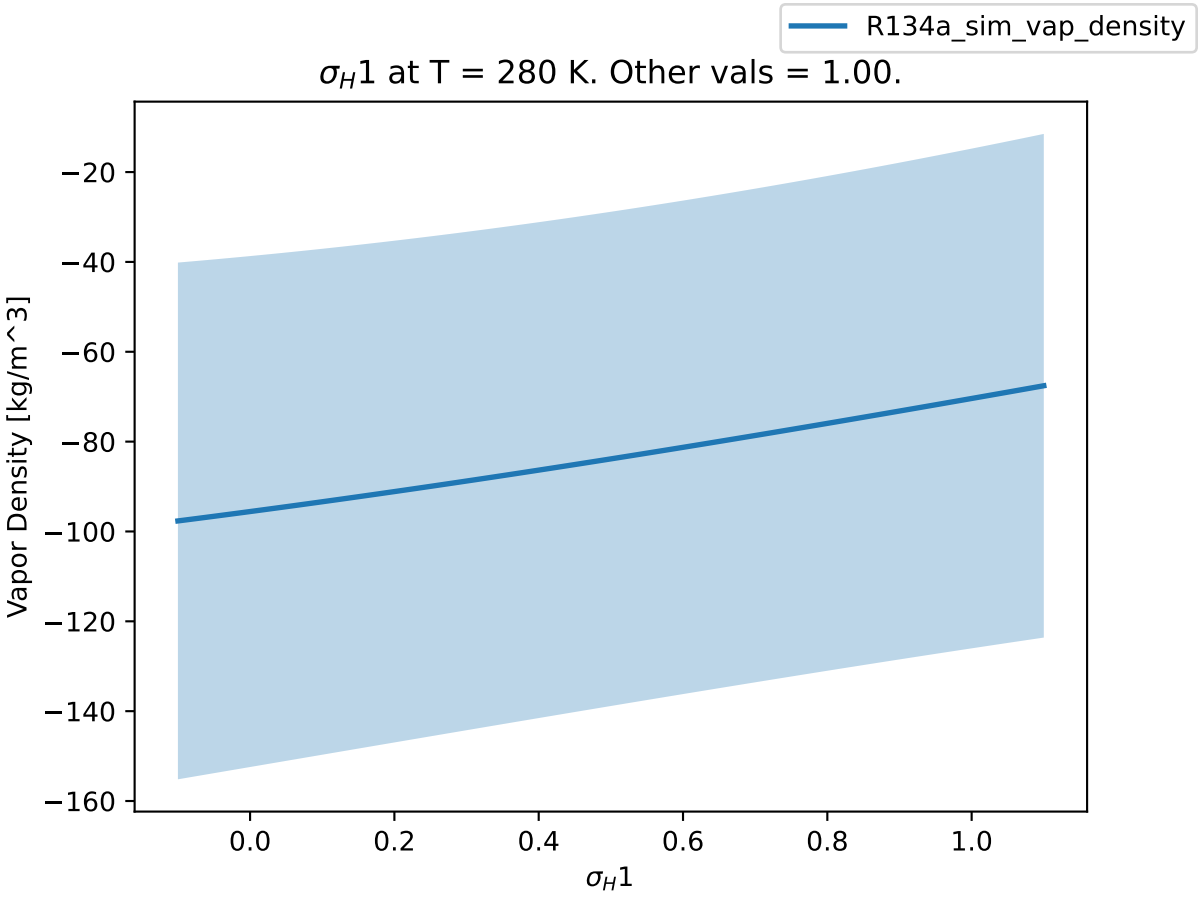

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

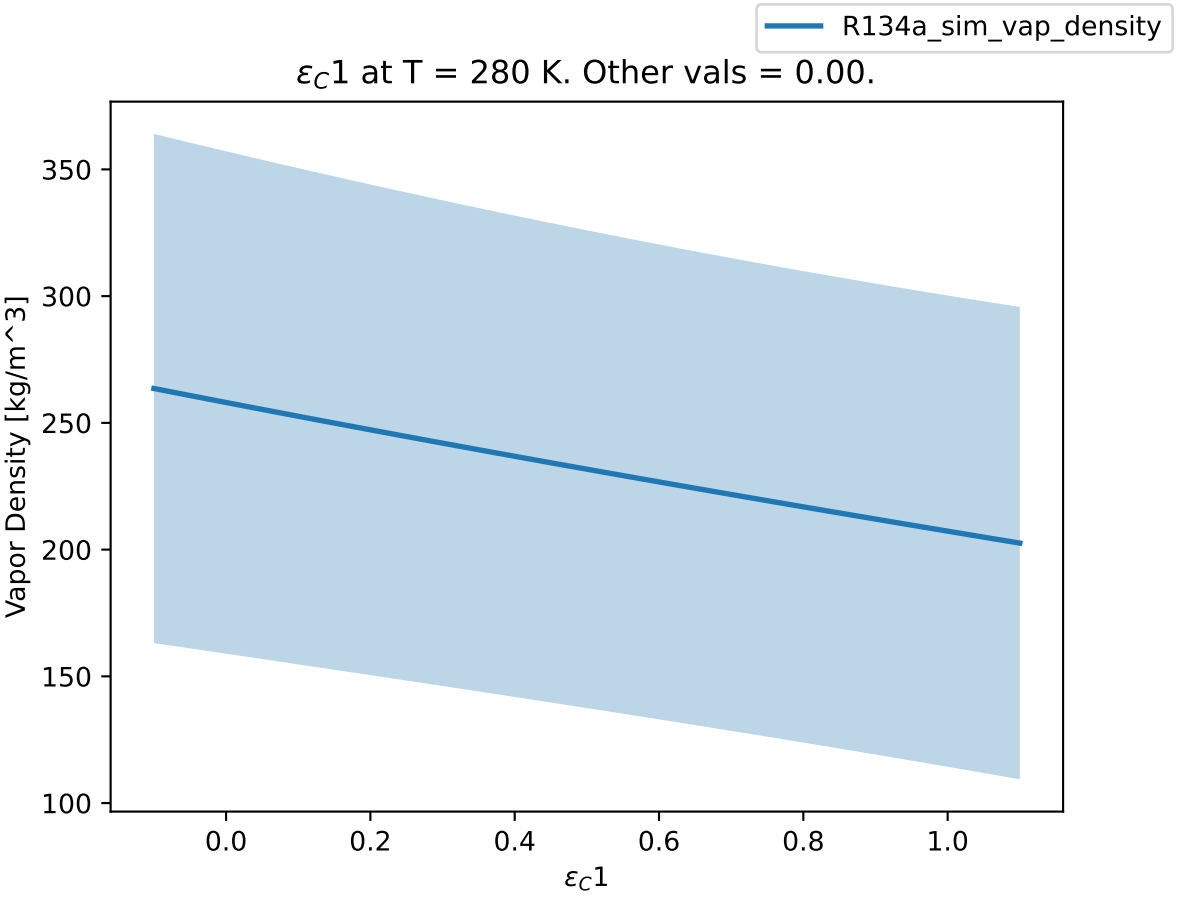

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
40
35
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

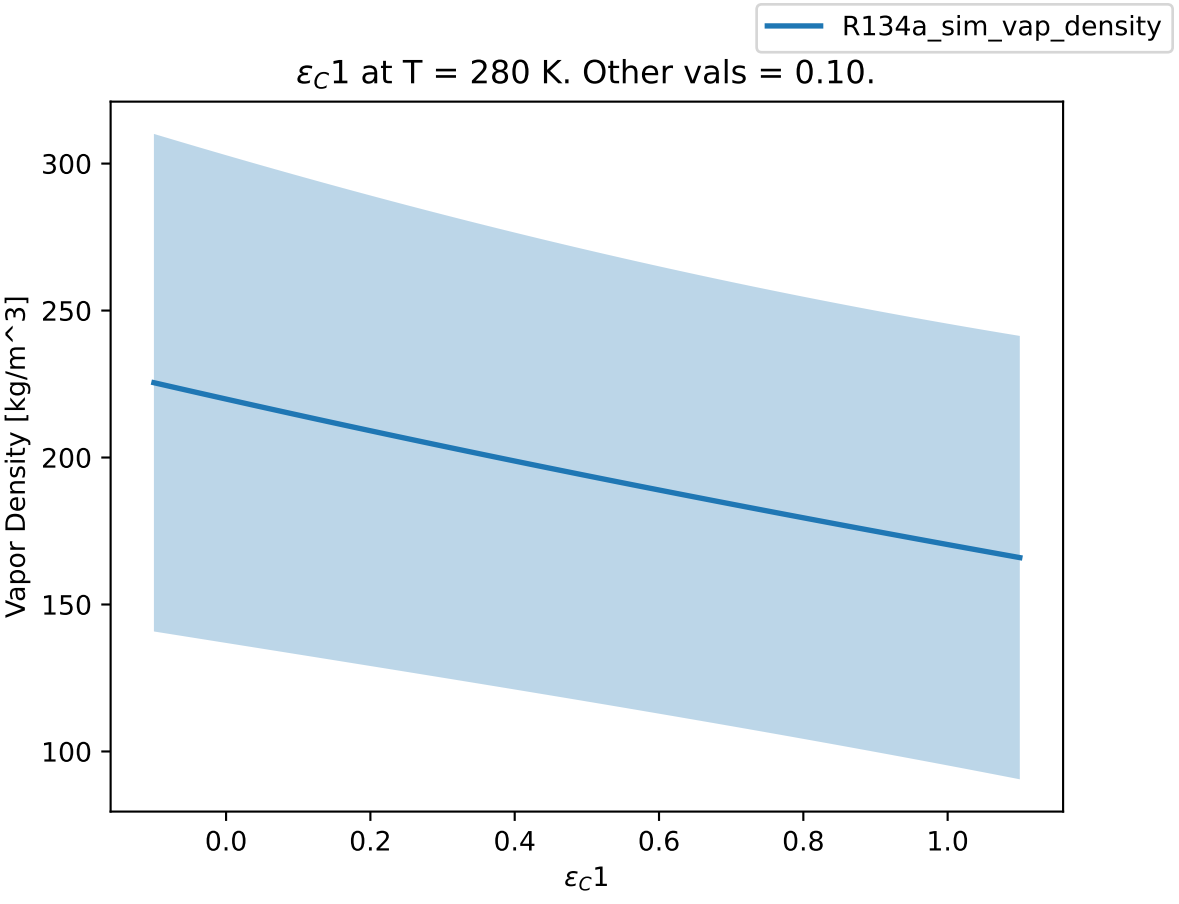

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
20
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

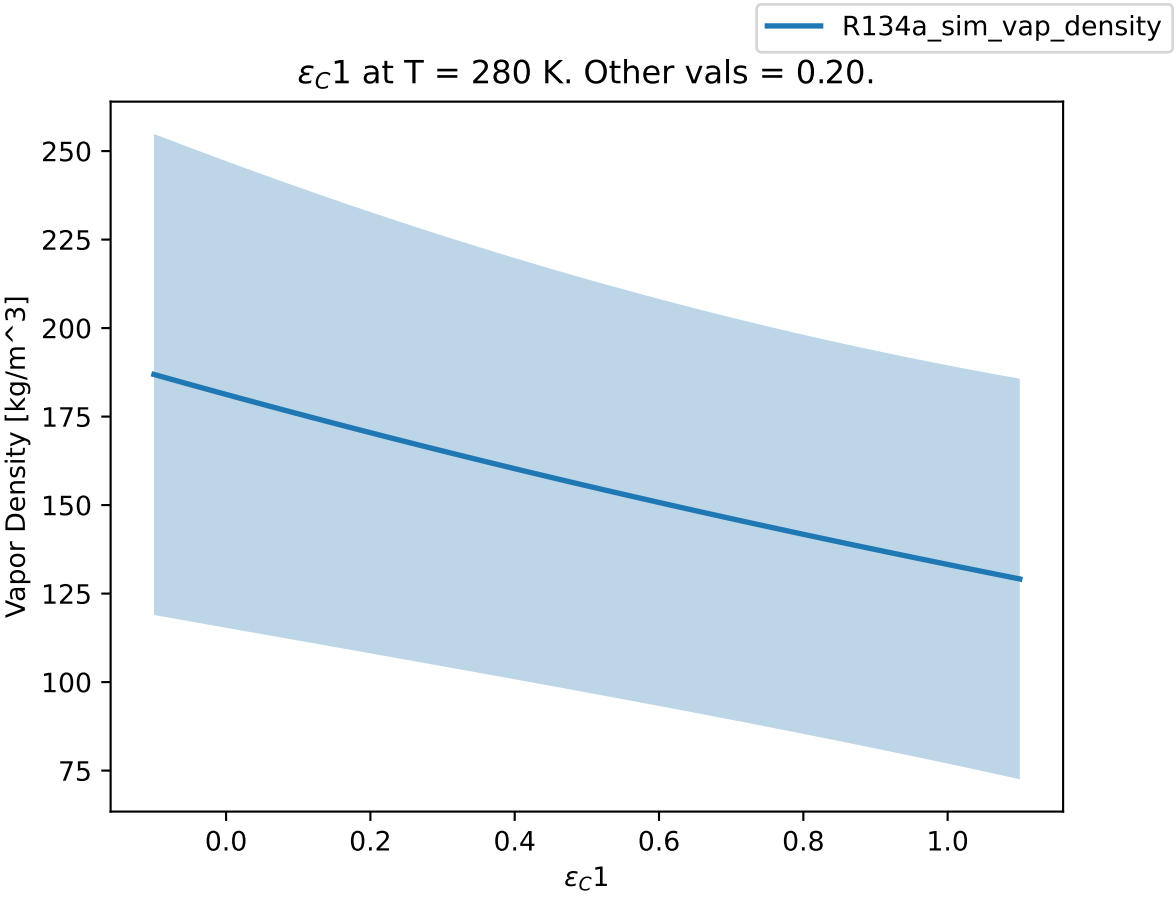

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
0
−10
−20
−30
−40
−50
−60
−70
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

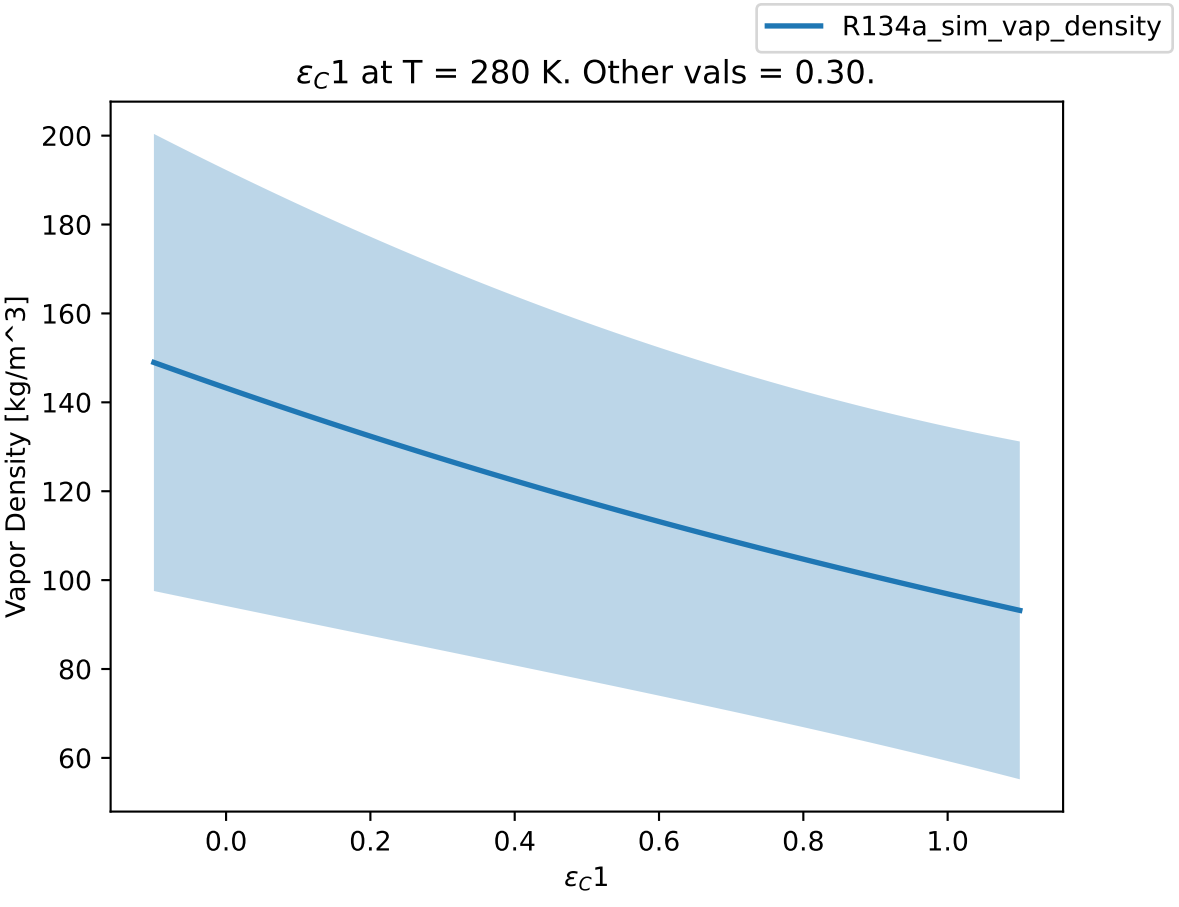

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

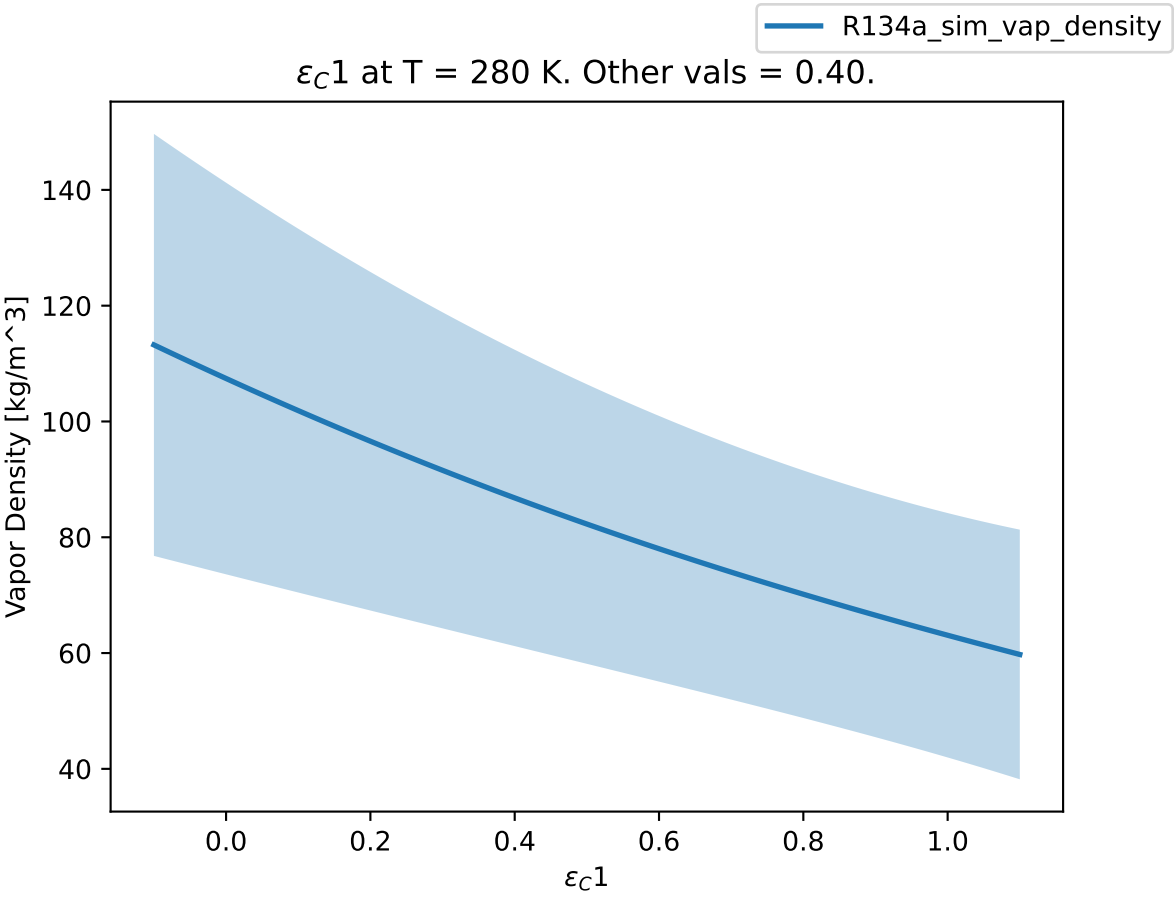

R134a_sim_vap_density
σ_H1 at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
−20
−40
−60
−80
−100
−120
−140
−160
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

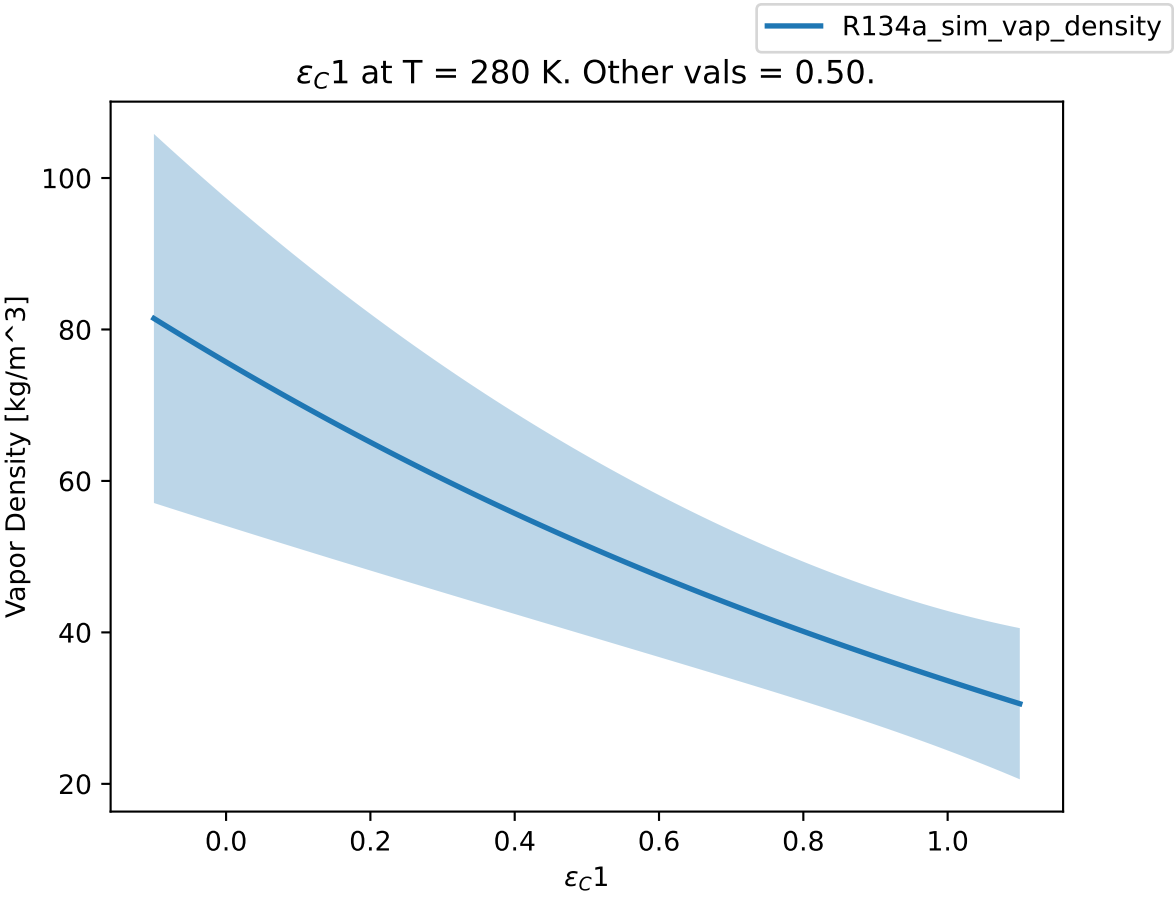

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

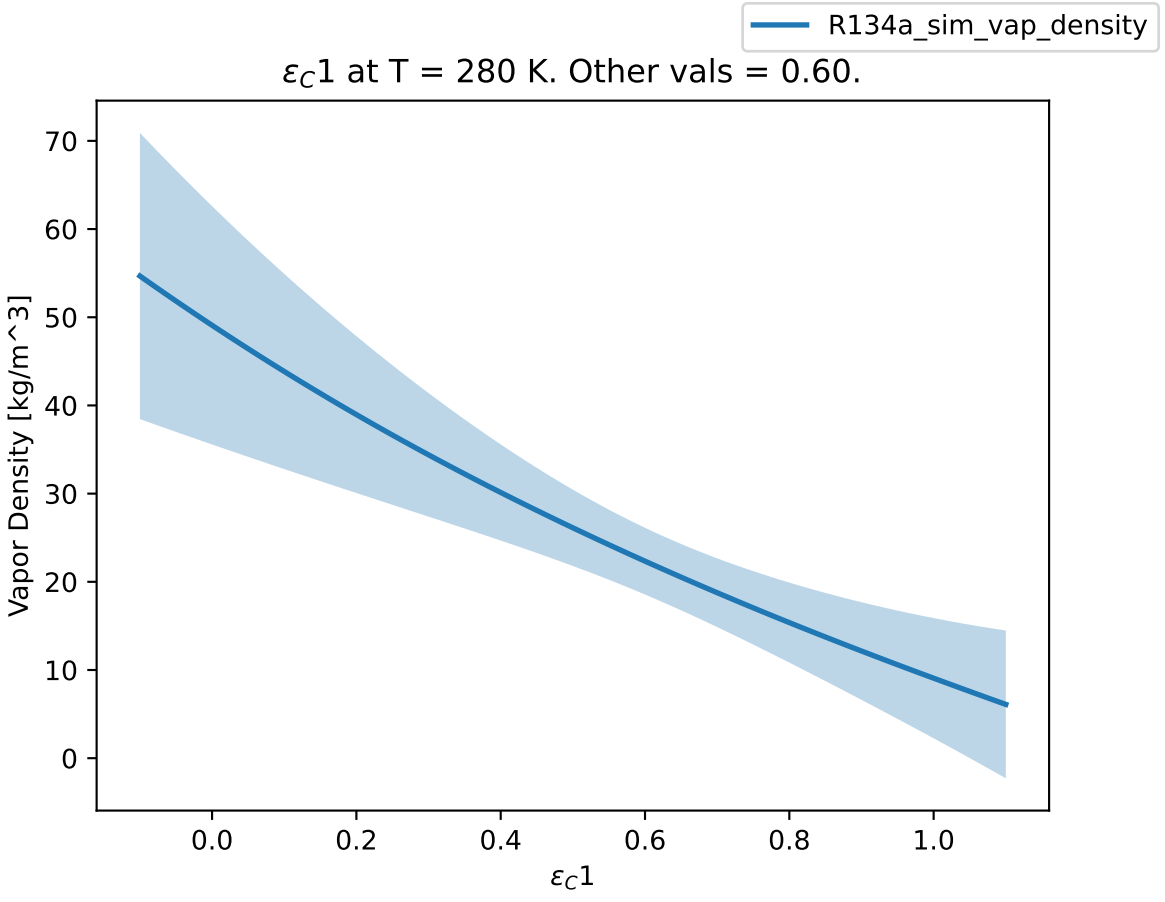

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

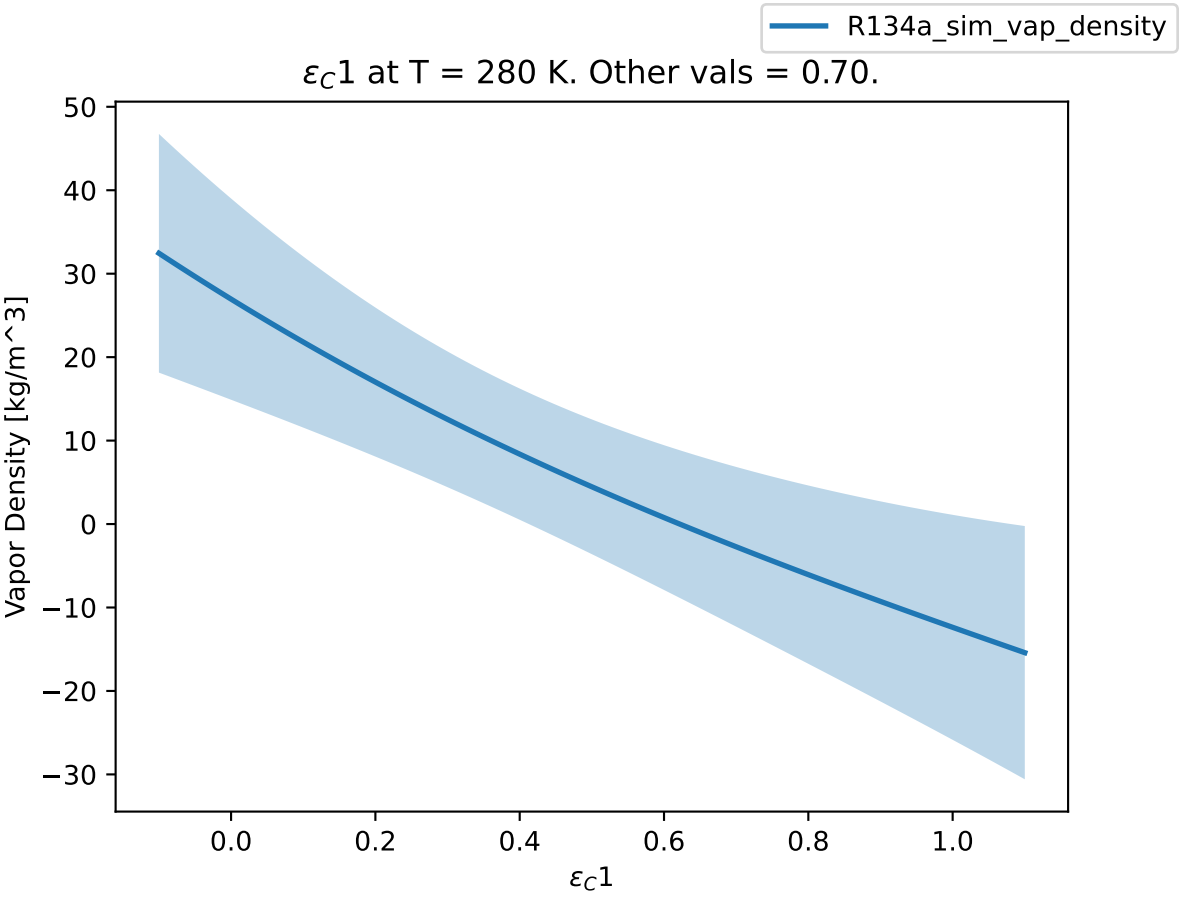

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
250
225
200
175
150
125
100
75
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

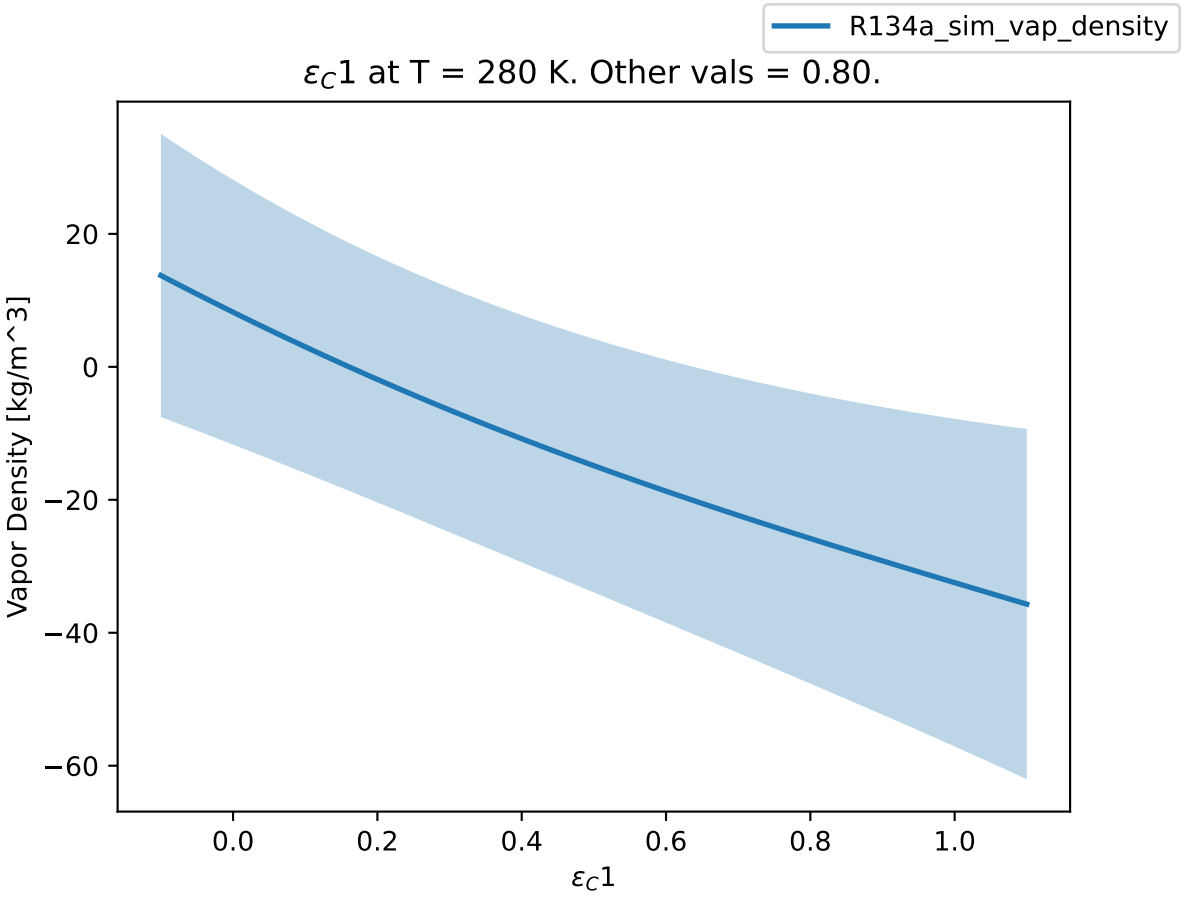

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
200
180
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

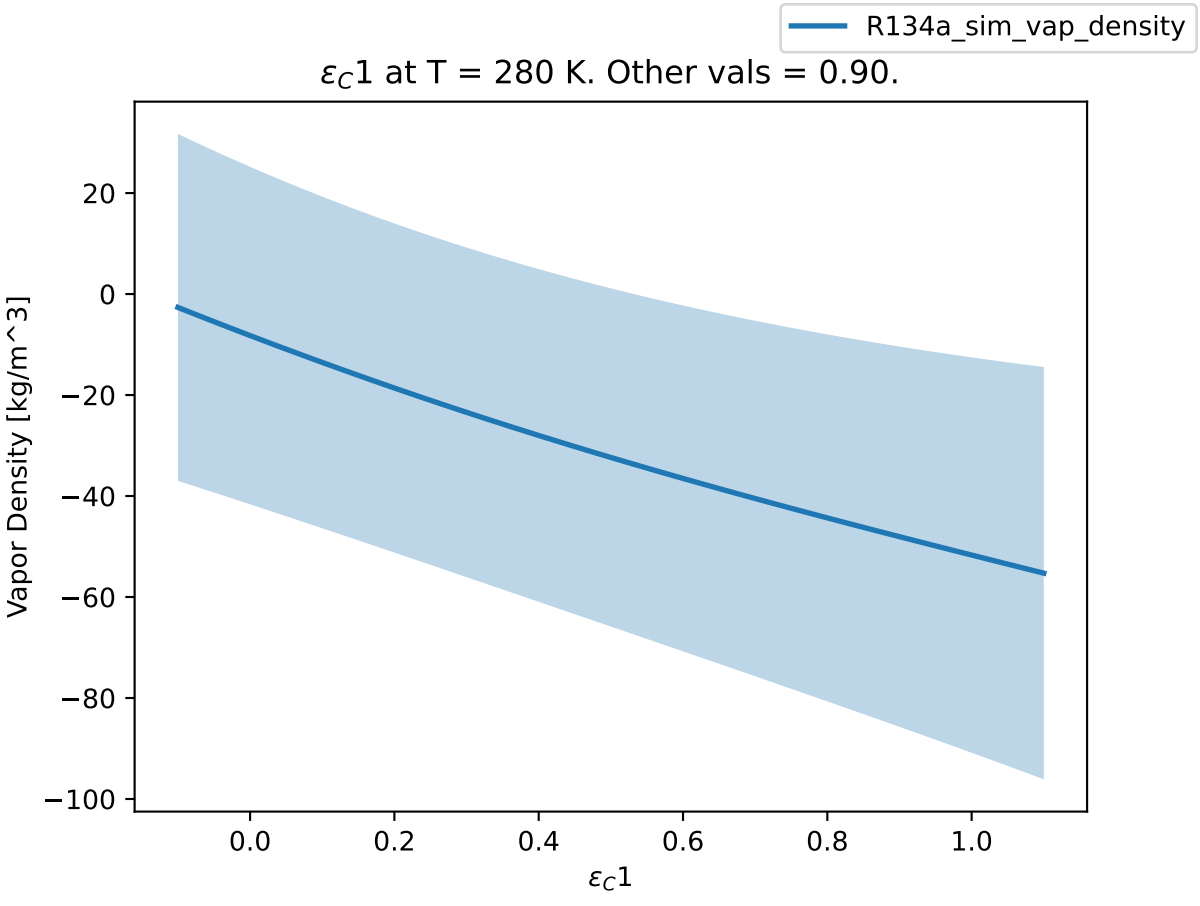

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

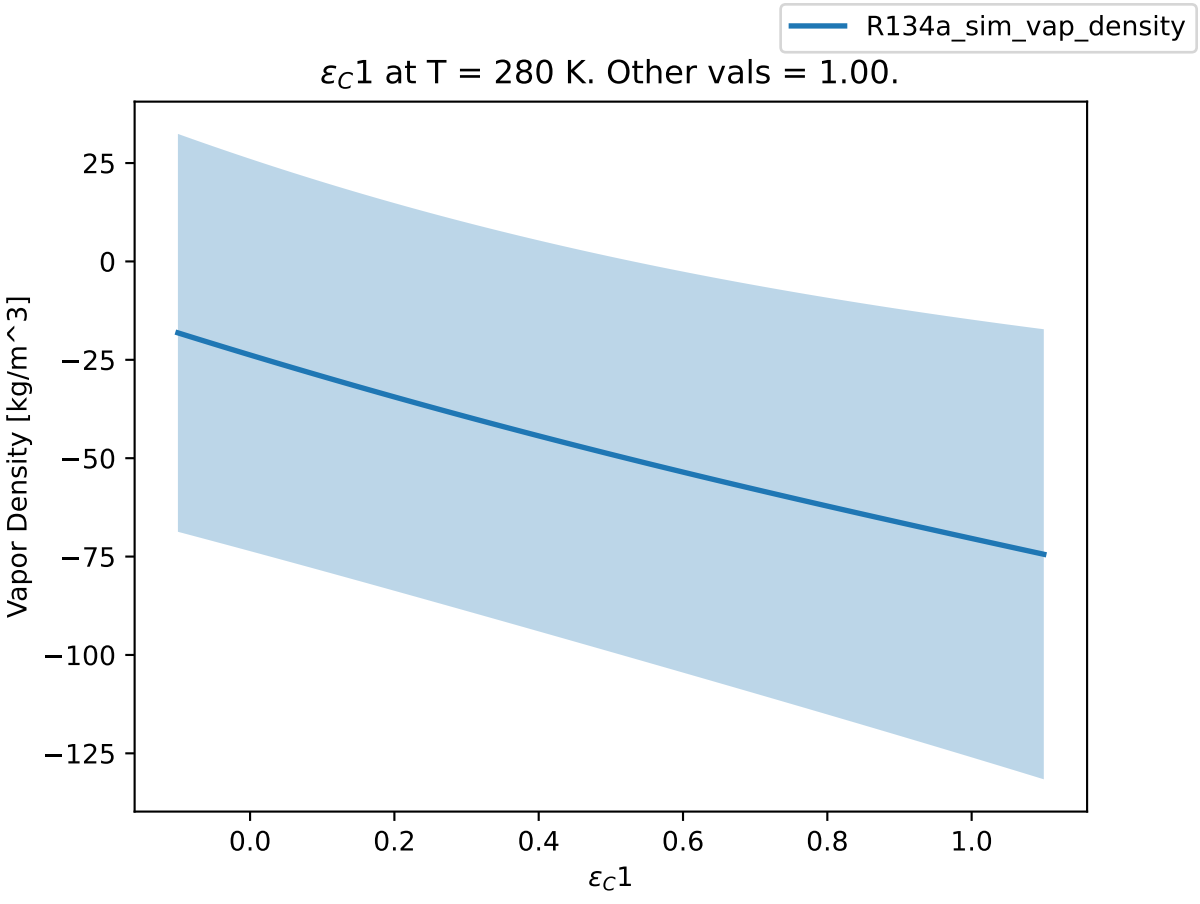

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

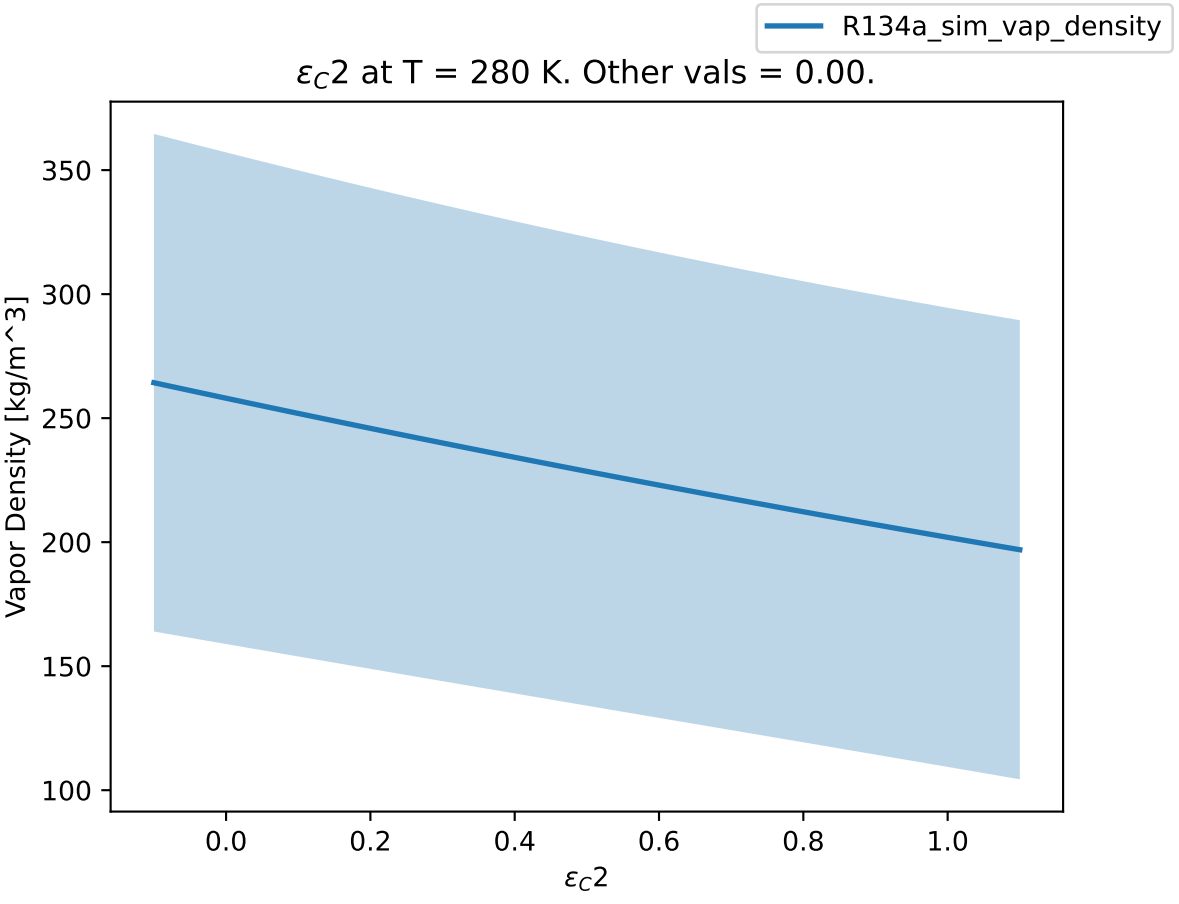

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
70
60
50
40
30
20
10
0
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

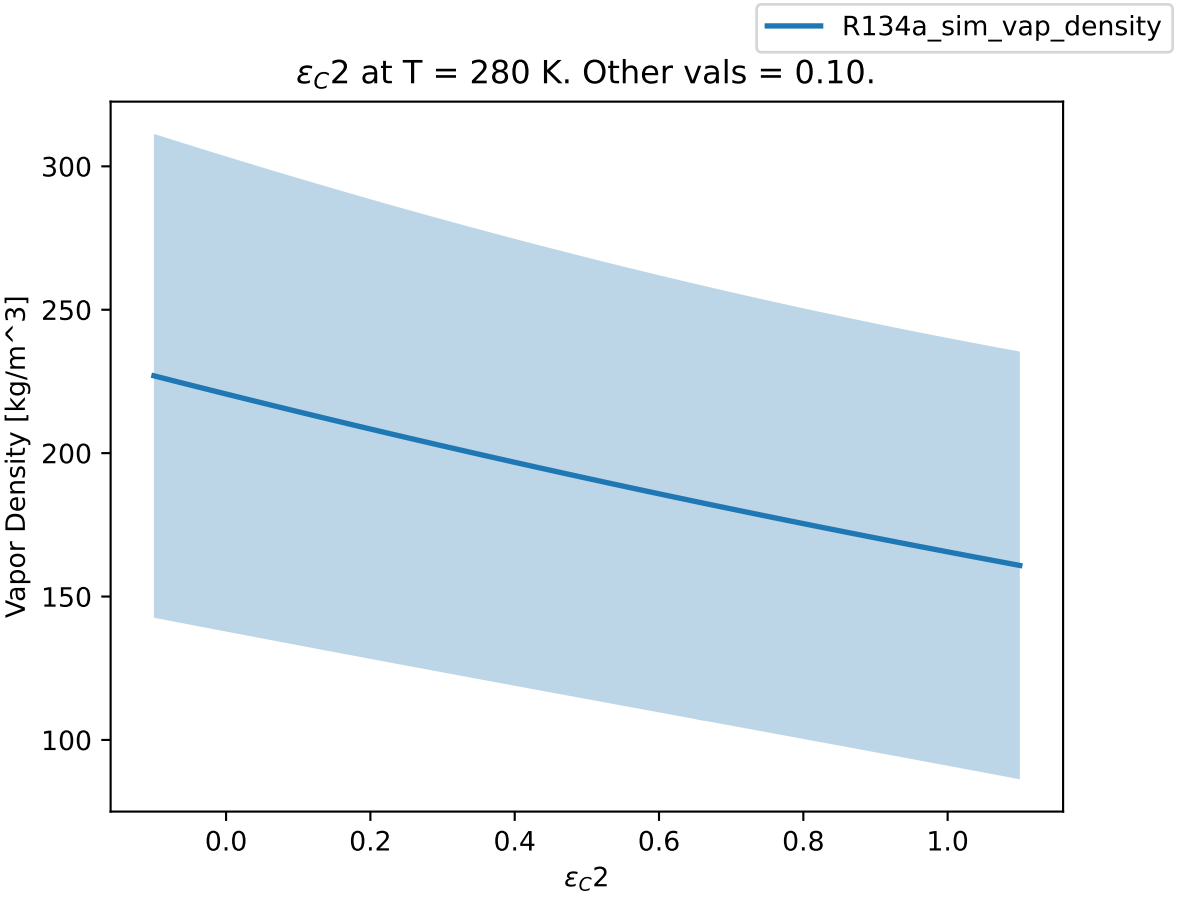

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
50
40
30
20
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

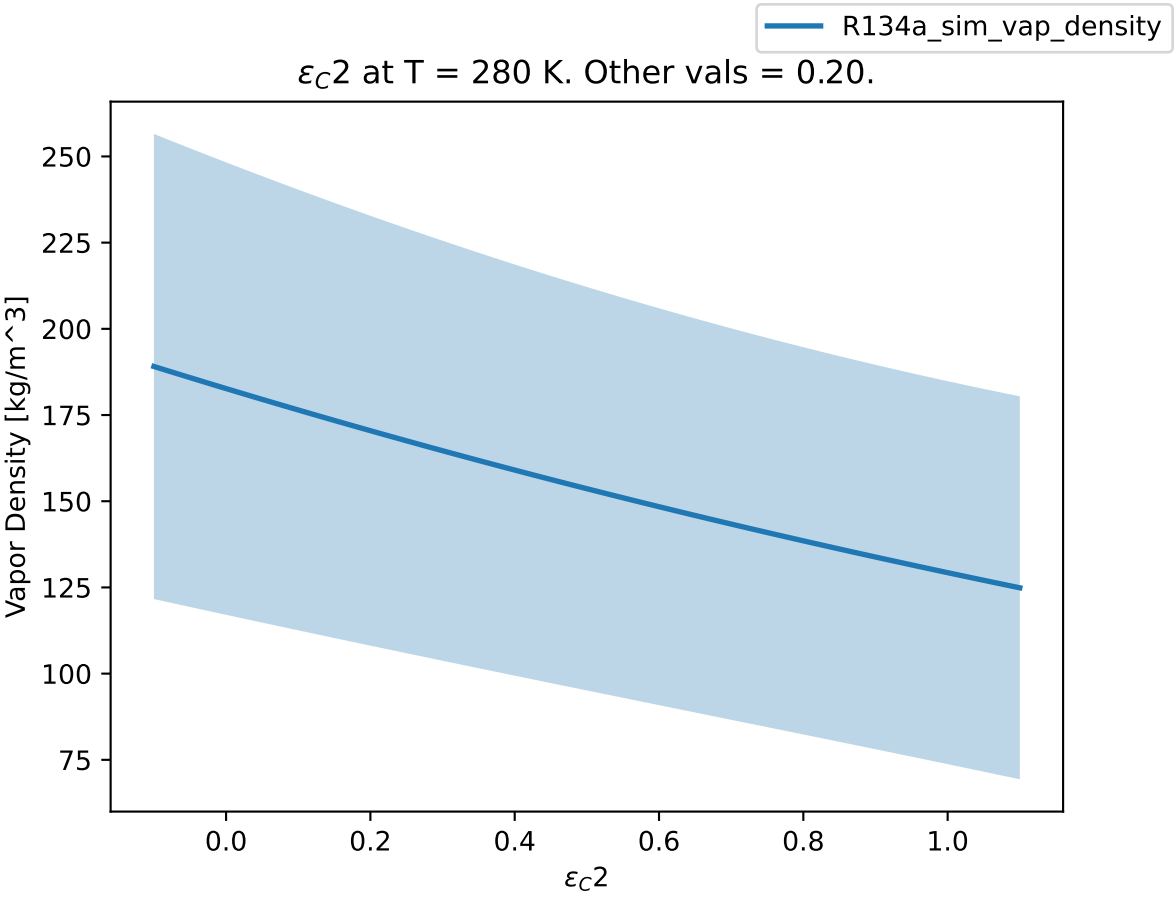

R134a_sim_vap_density
ε_C1 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

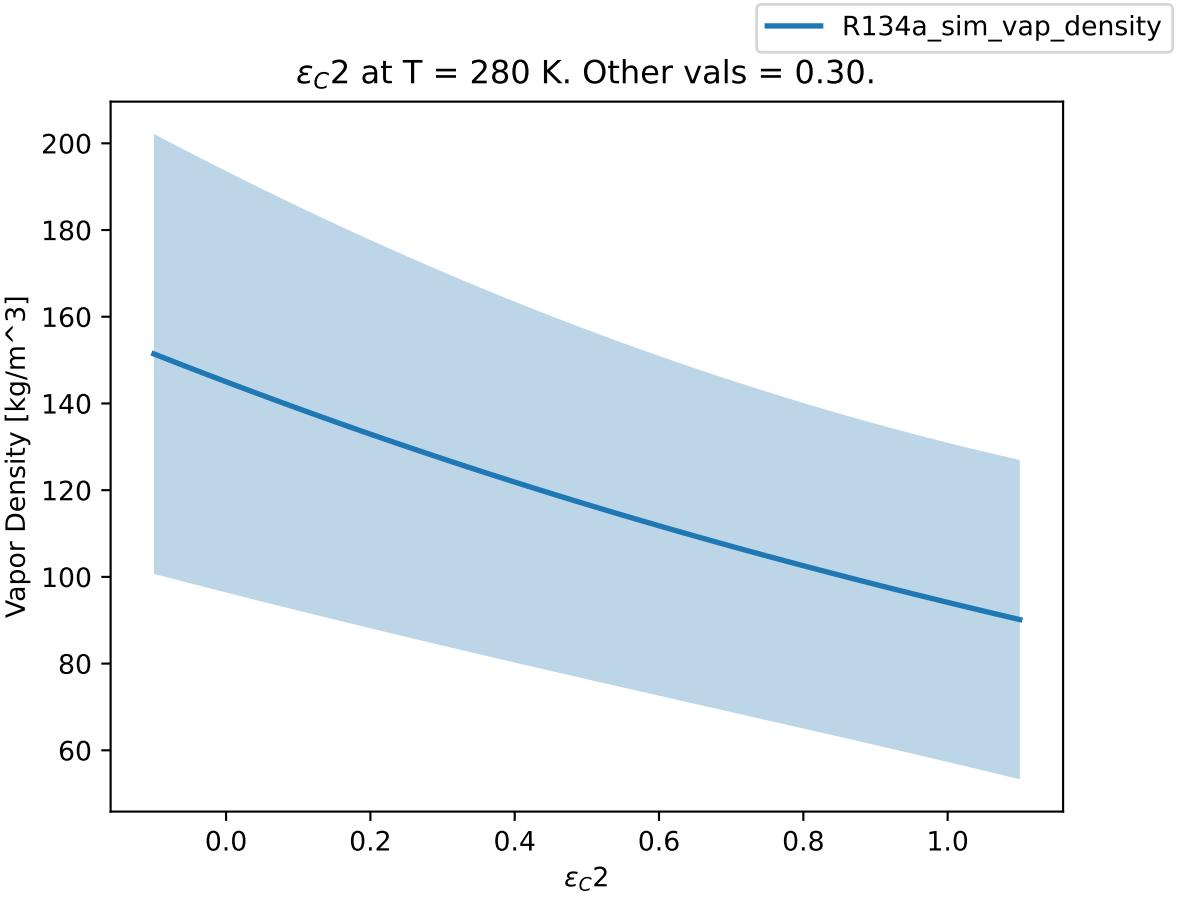

R134a_sim_vap_density
$\varepsilon_C 1$ at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
20
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

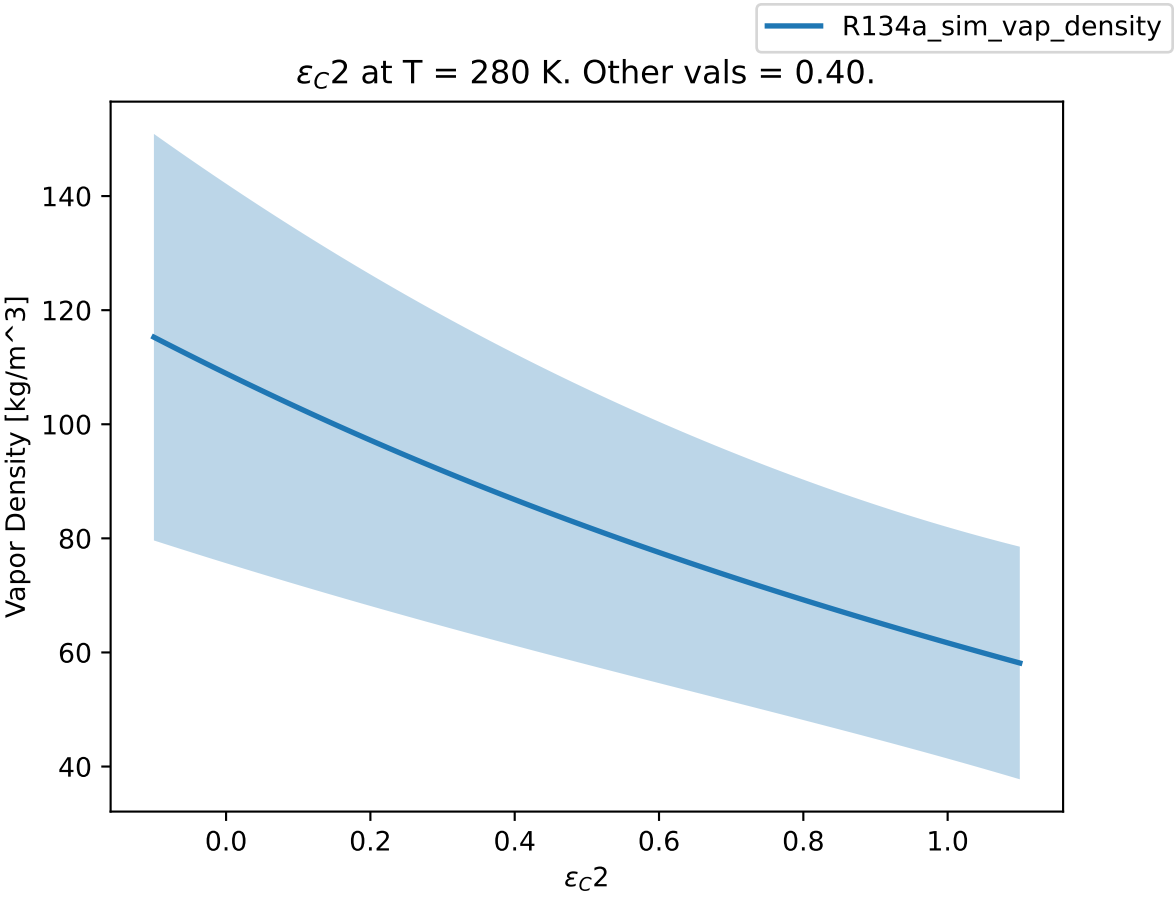

R134a_sim_vap_density
$\varepsilon_C 1$ at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

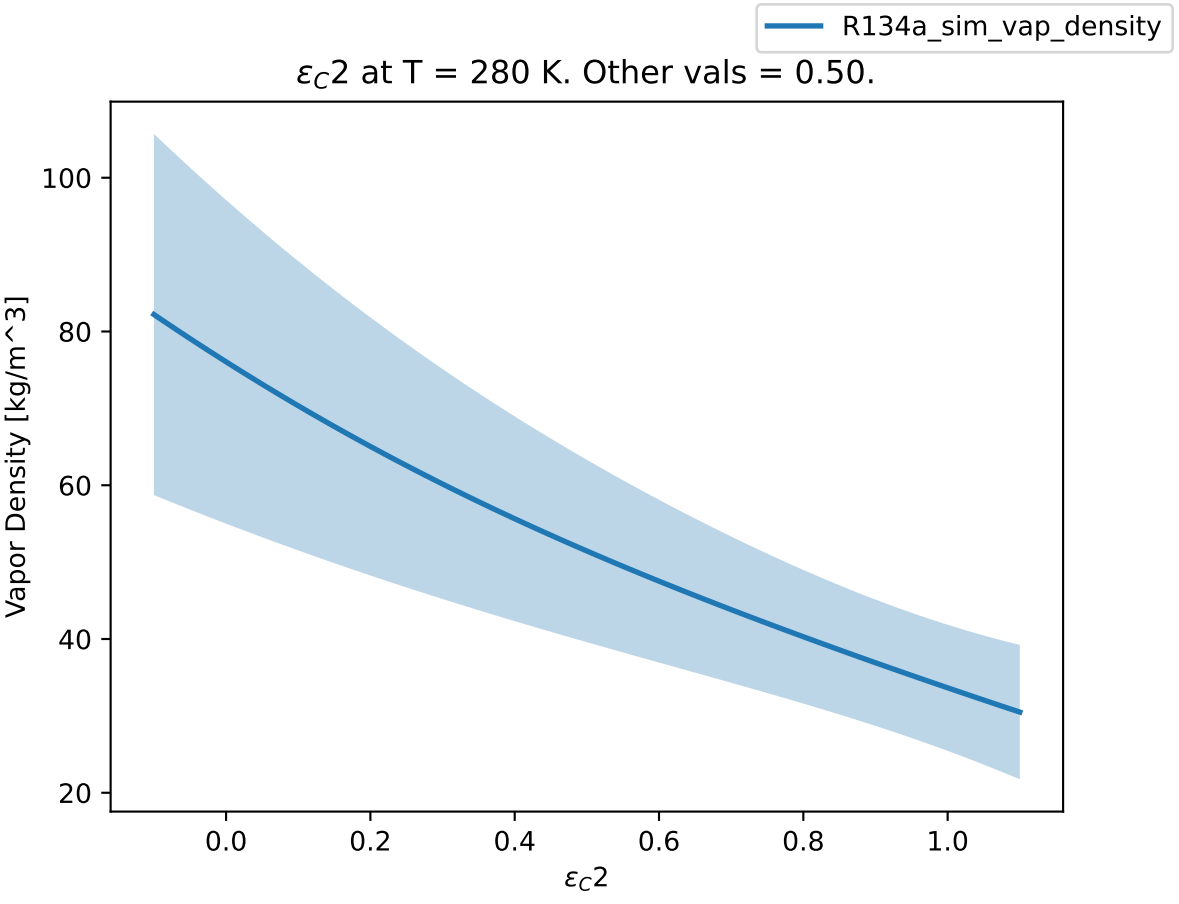

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

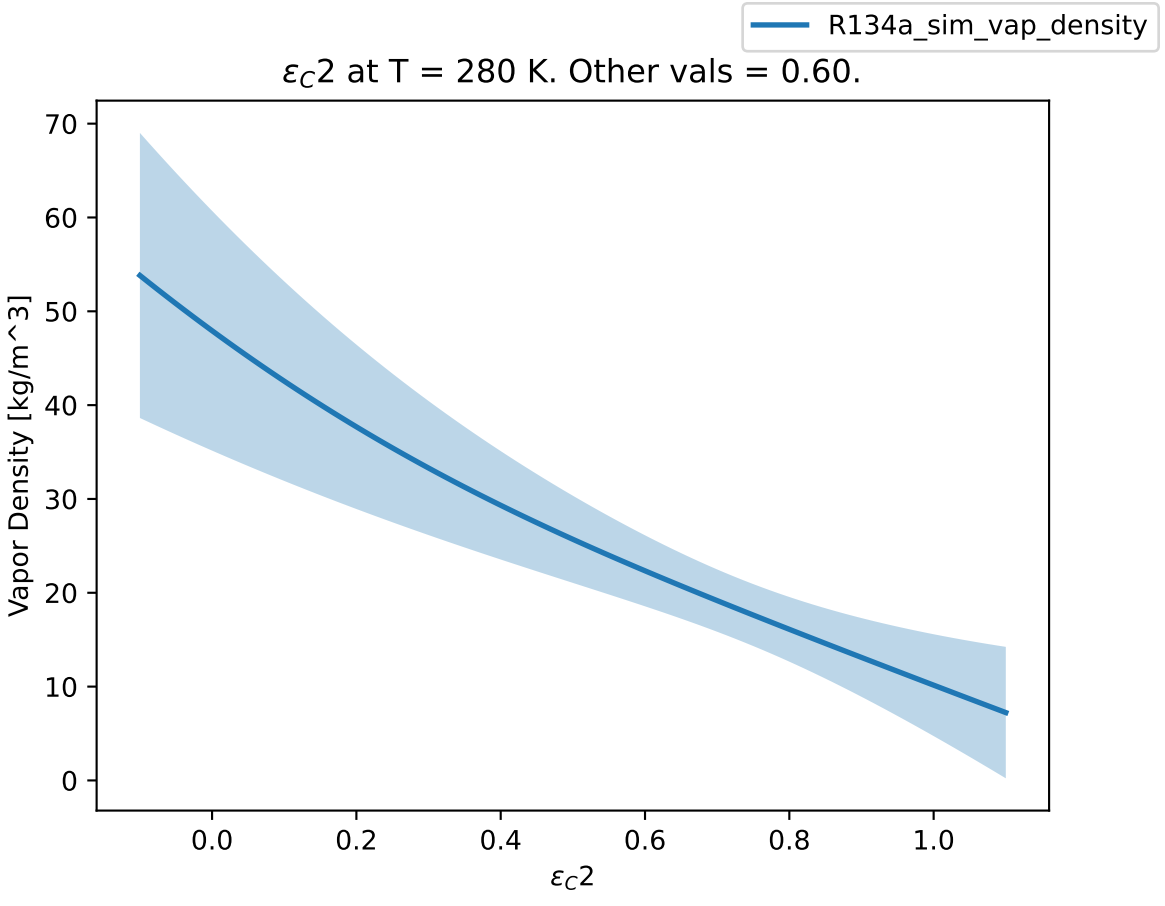

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

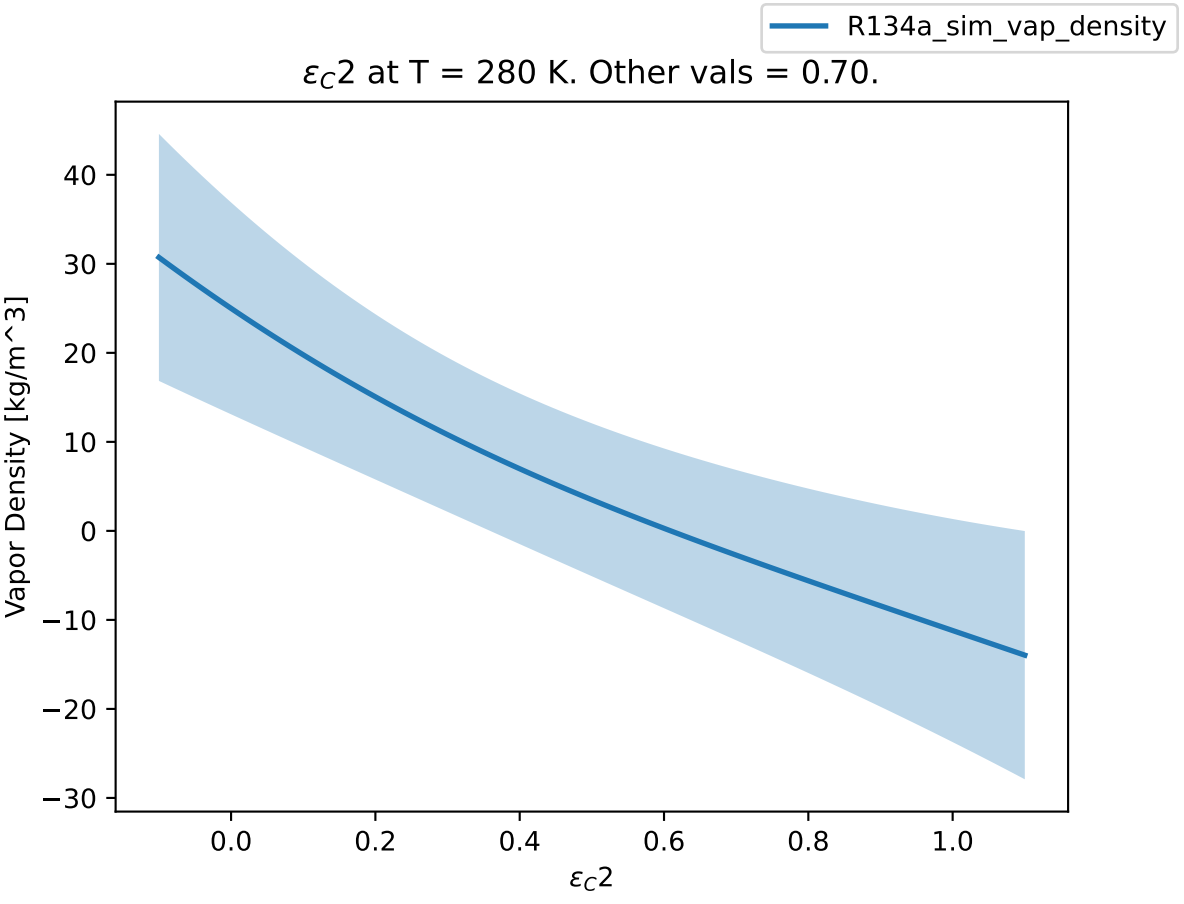

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
250
225
200
175
150
125
100
75
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

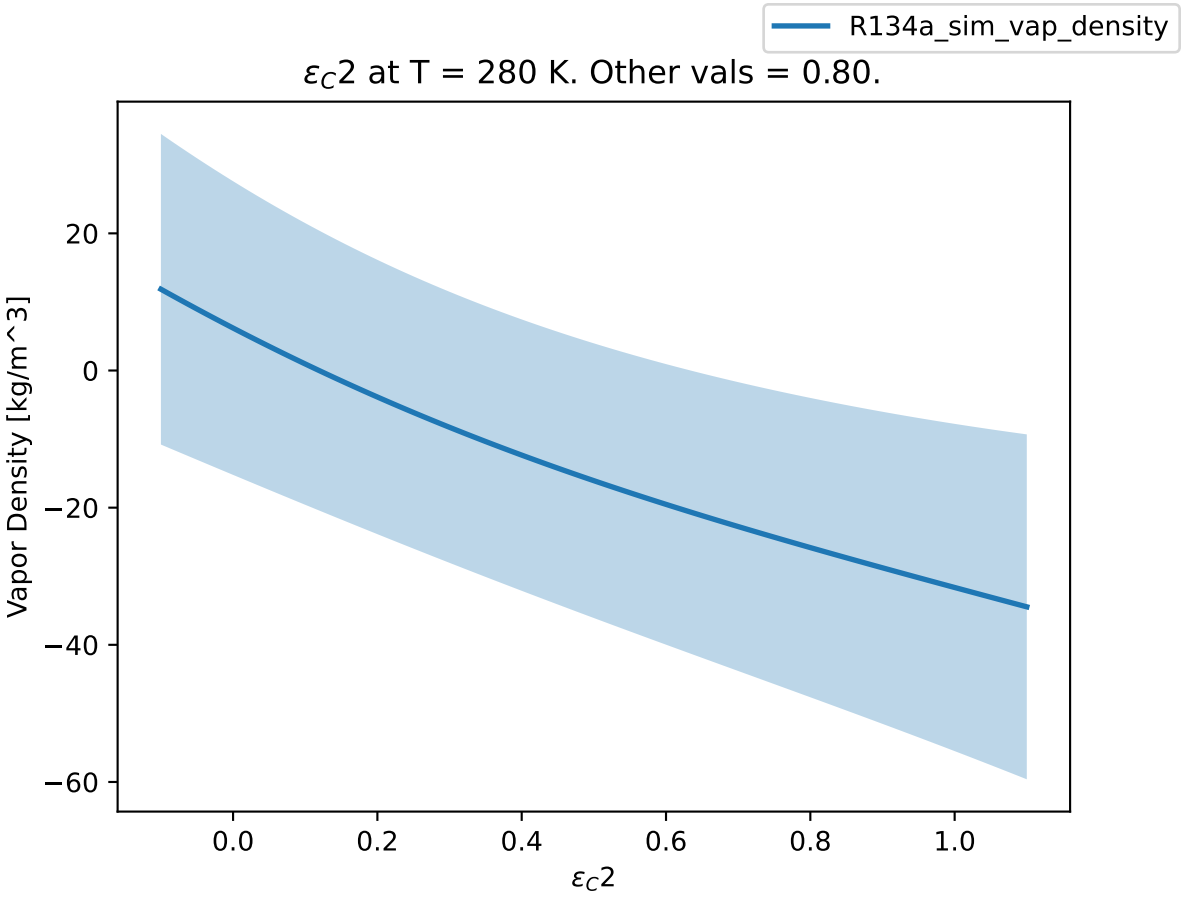

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
200
180
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

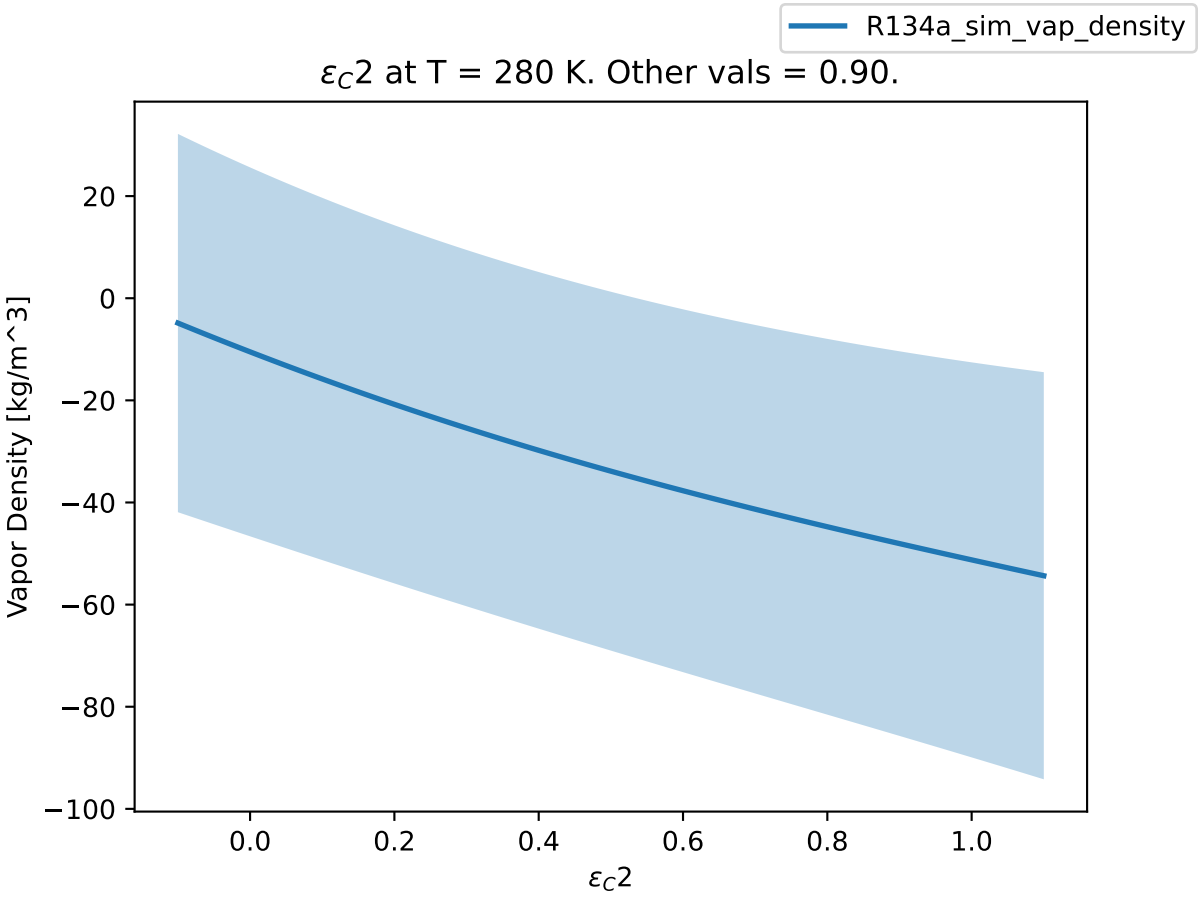

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

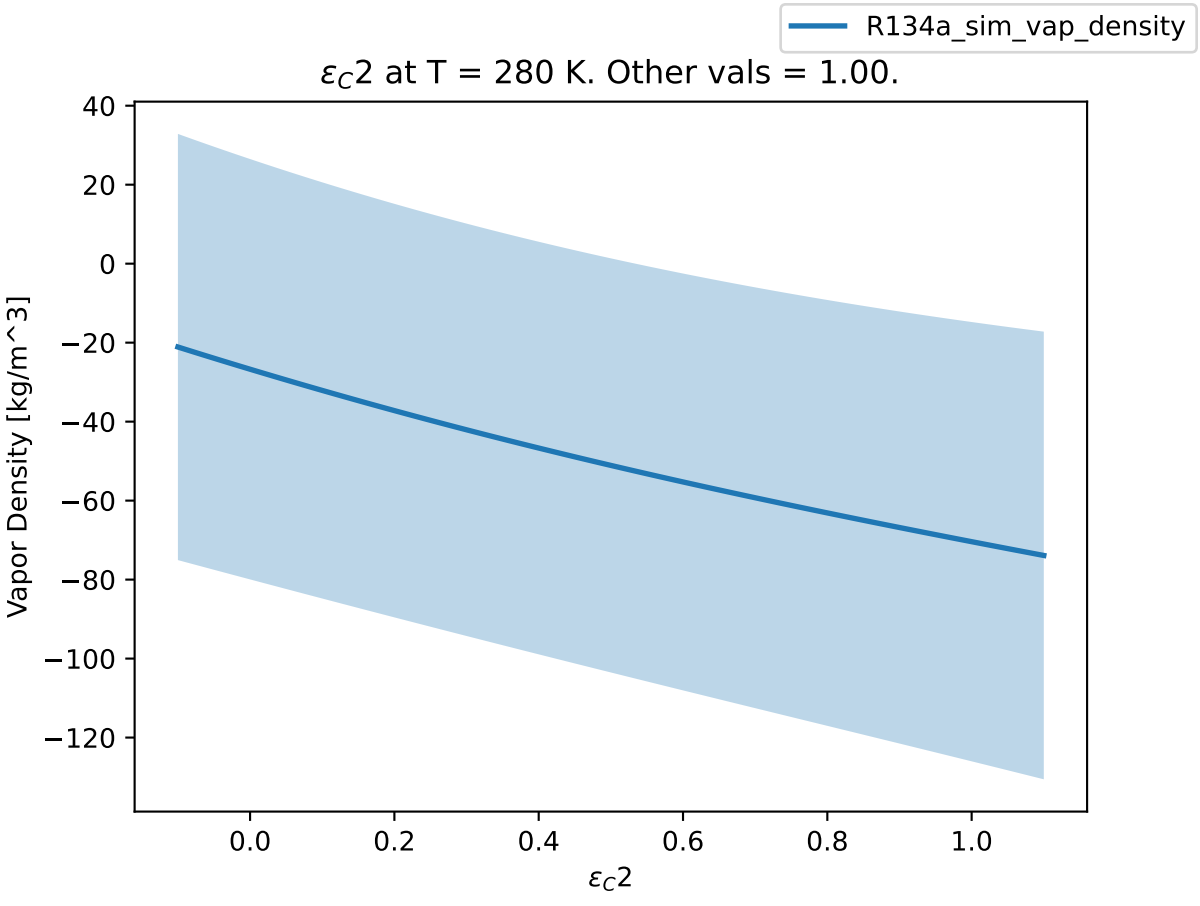

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

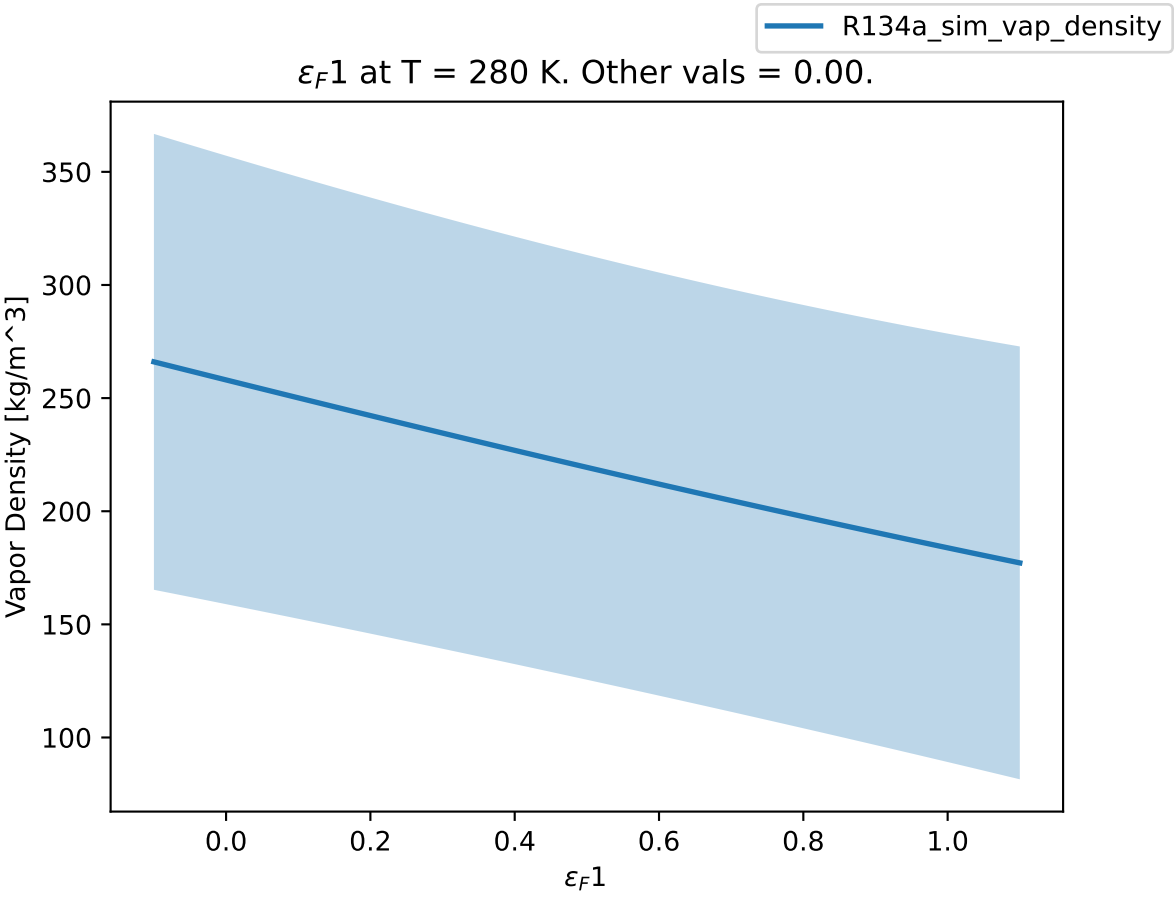

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
70
60
50
40
30
20
10
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

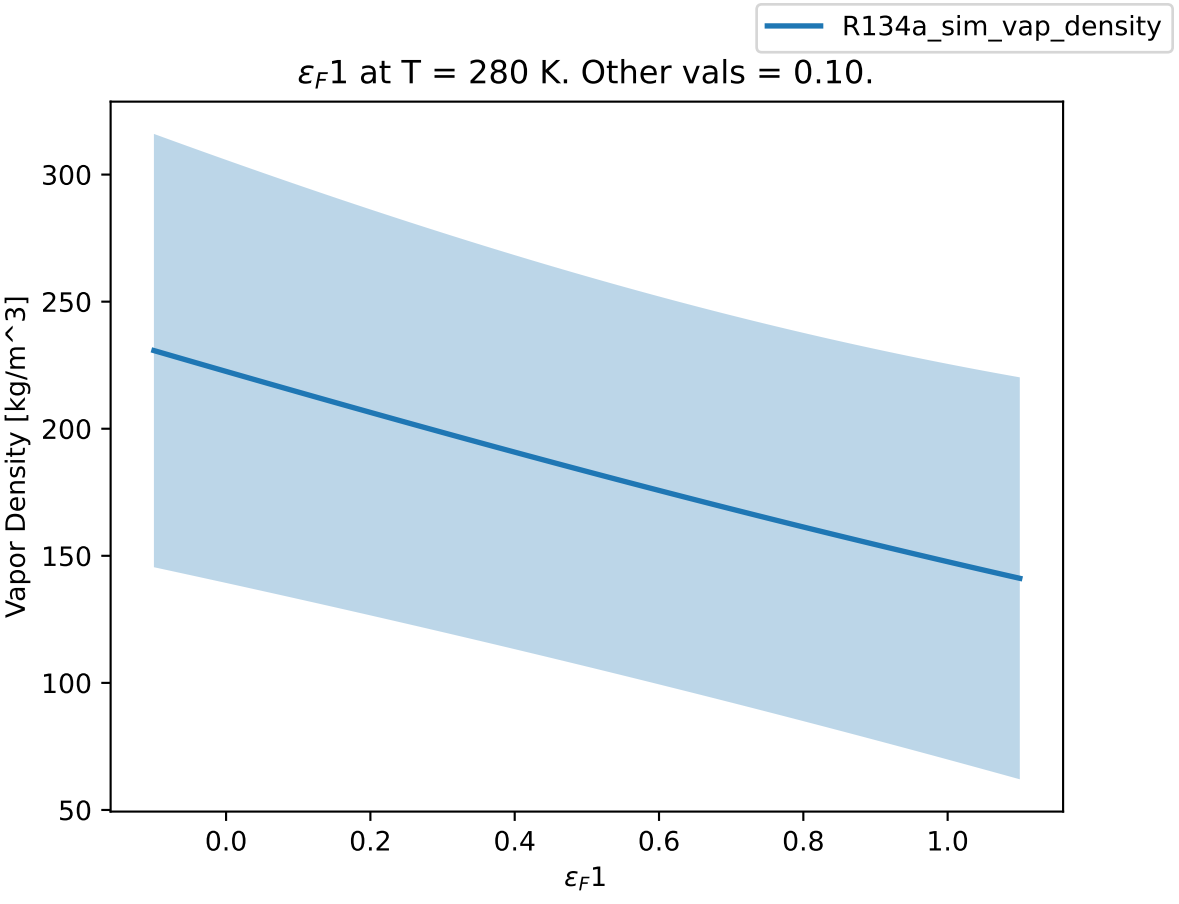

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
40
30
20
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

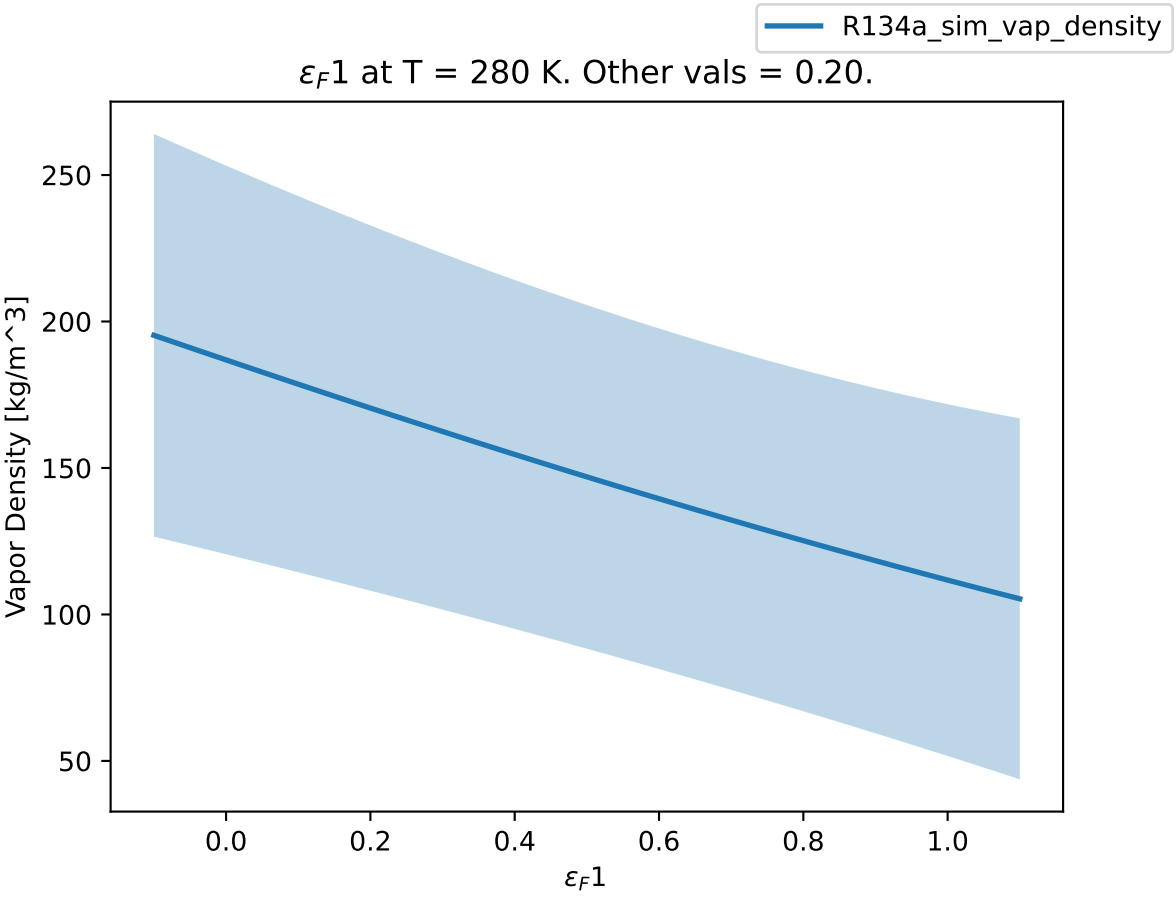

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

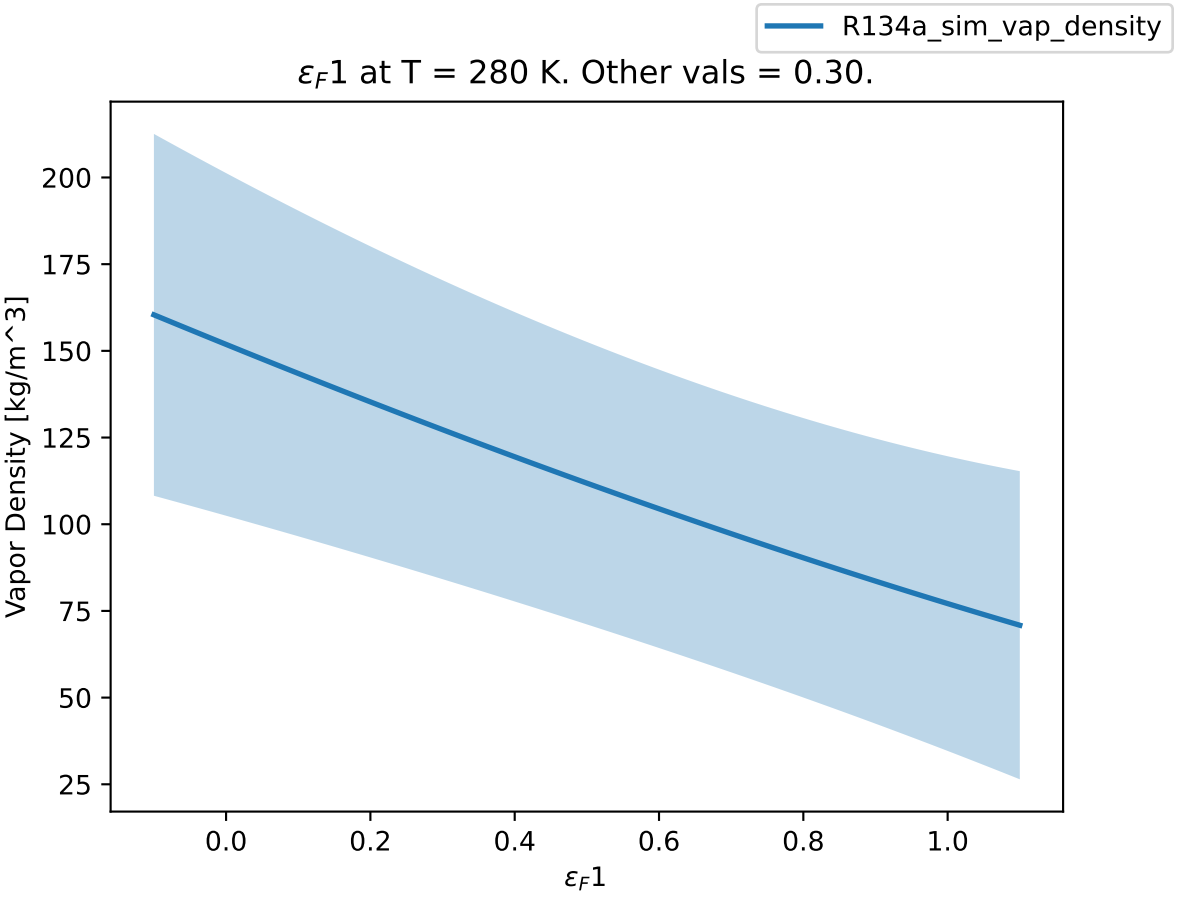

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
20
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

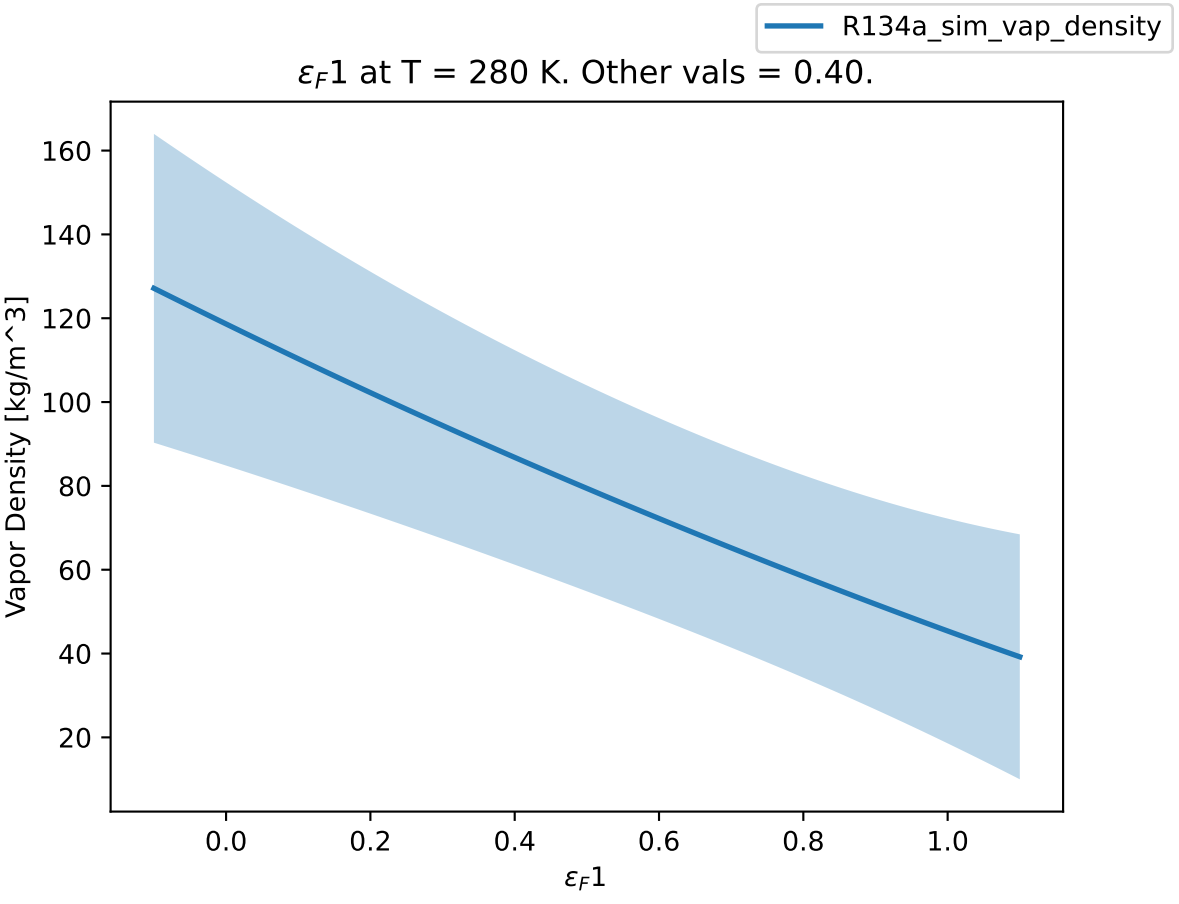

R134a_sim_vap_density
$\varepsilon_C 2$ at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
40
20
0
−20
−40
−60
−80
−100
−120
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

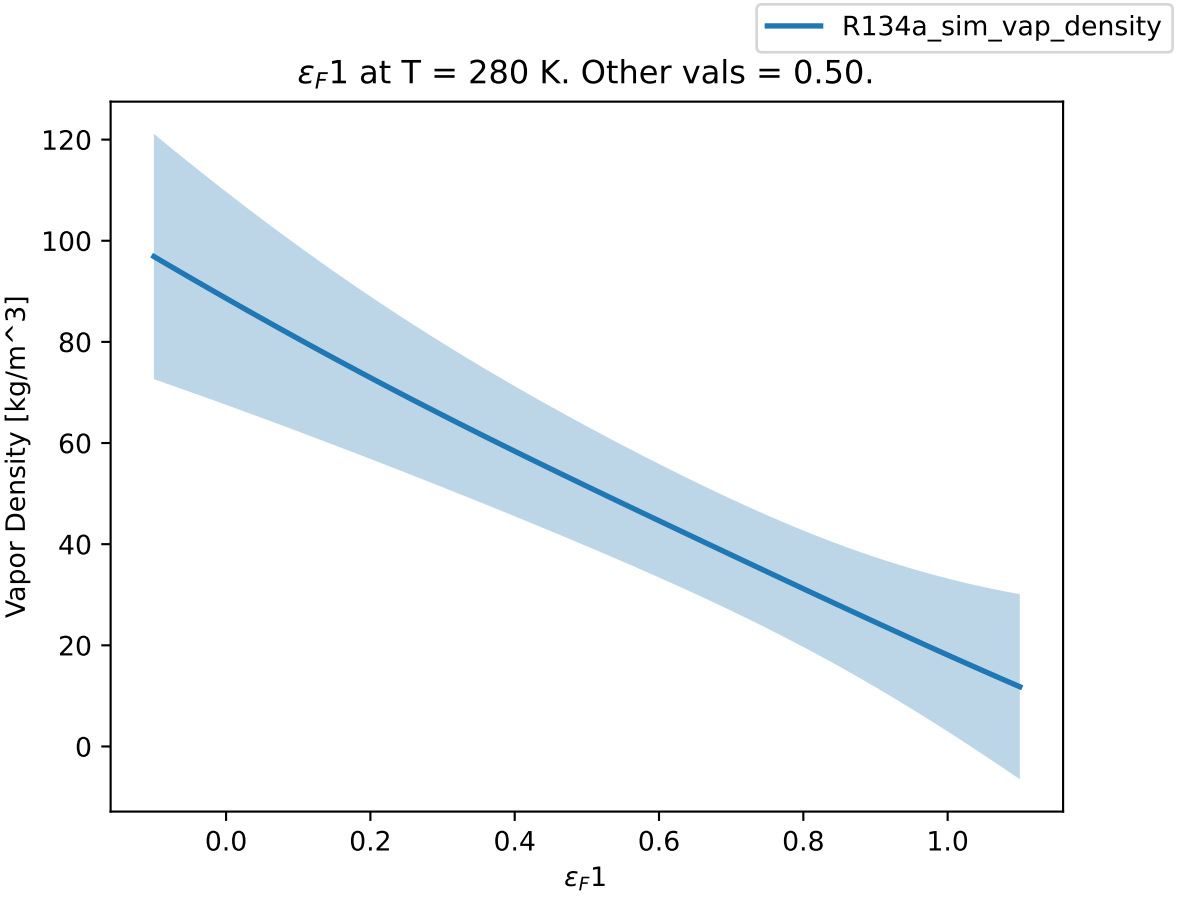

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

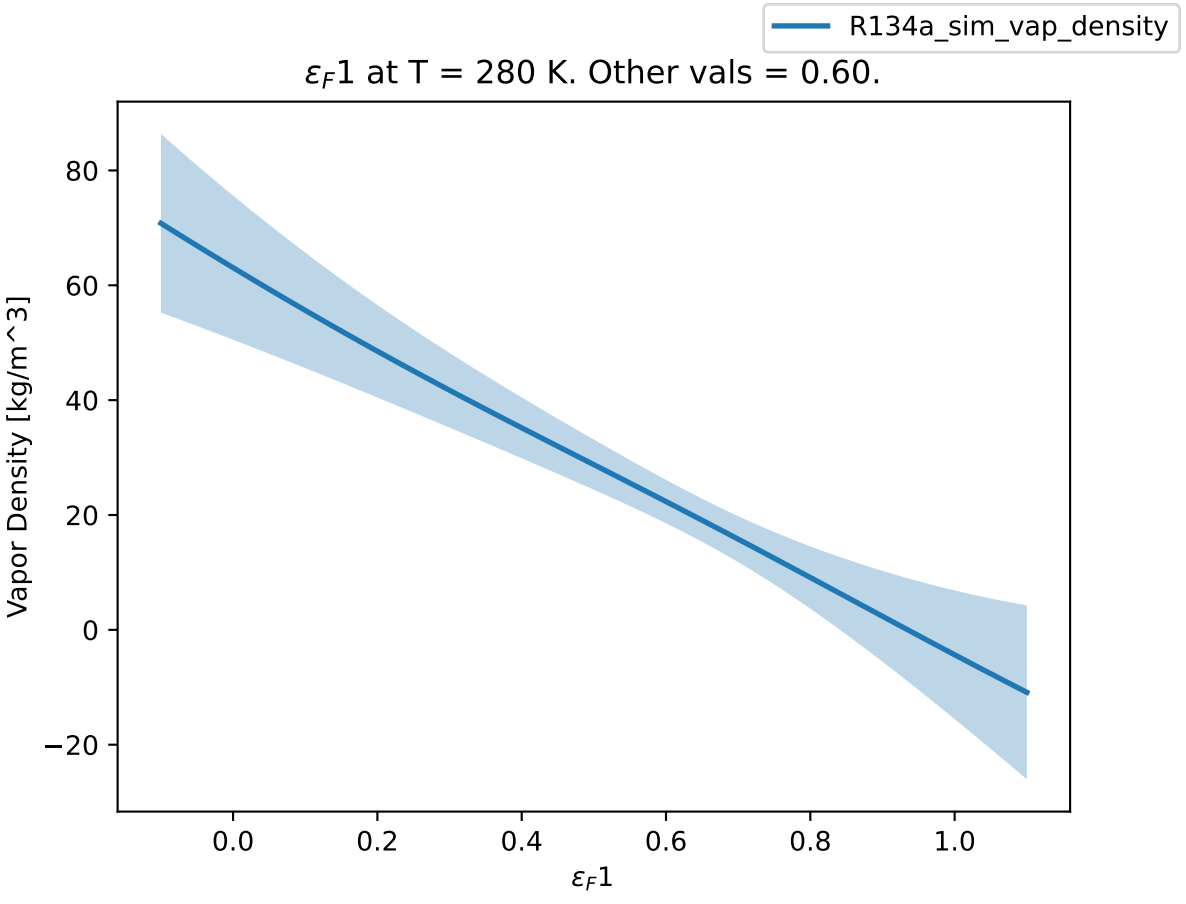

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

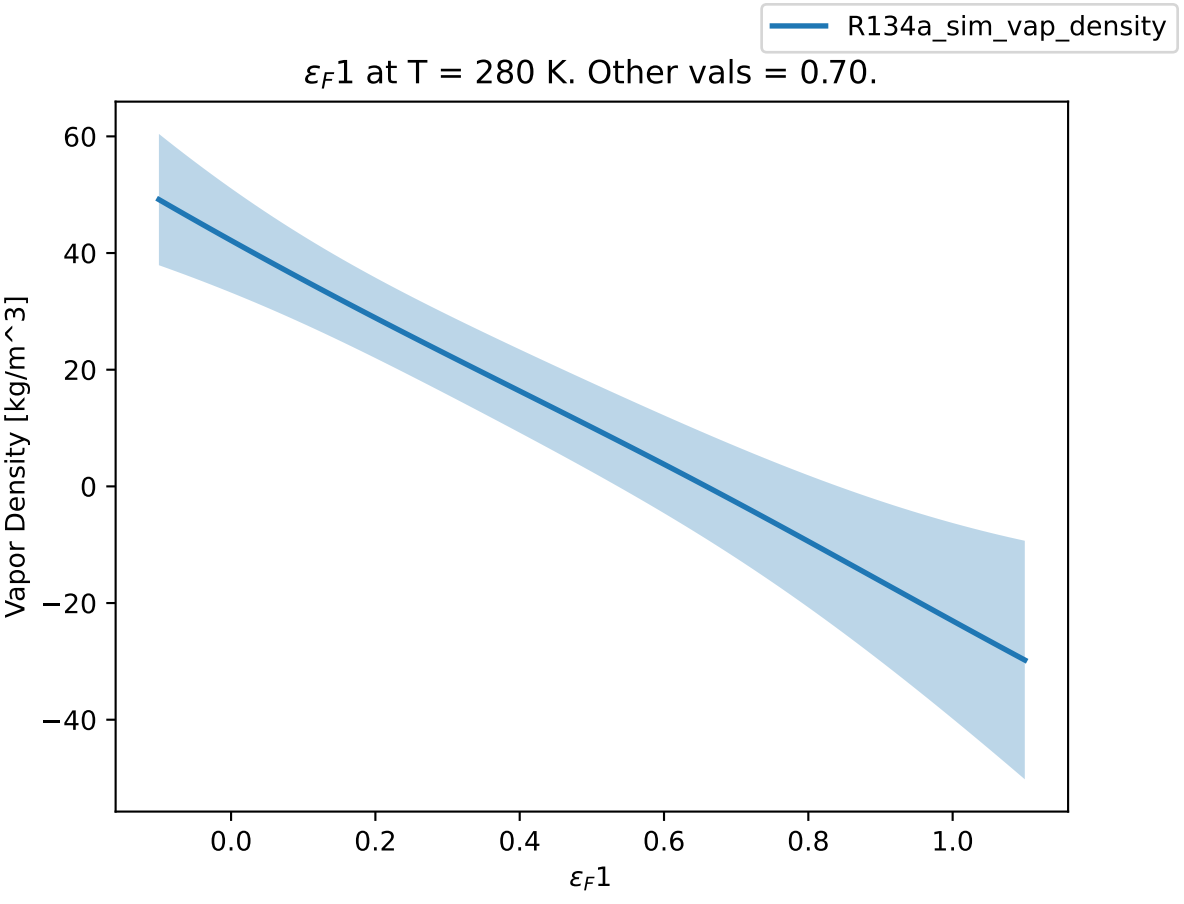

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

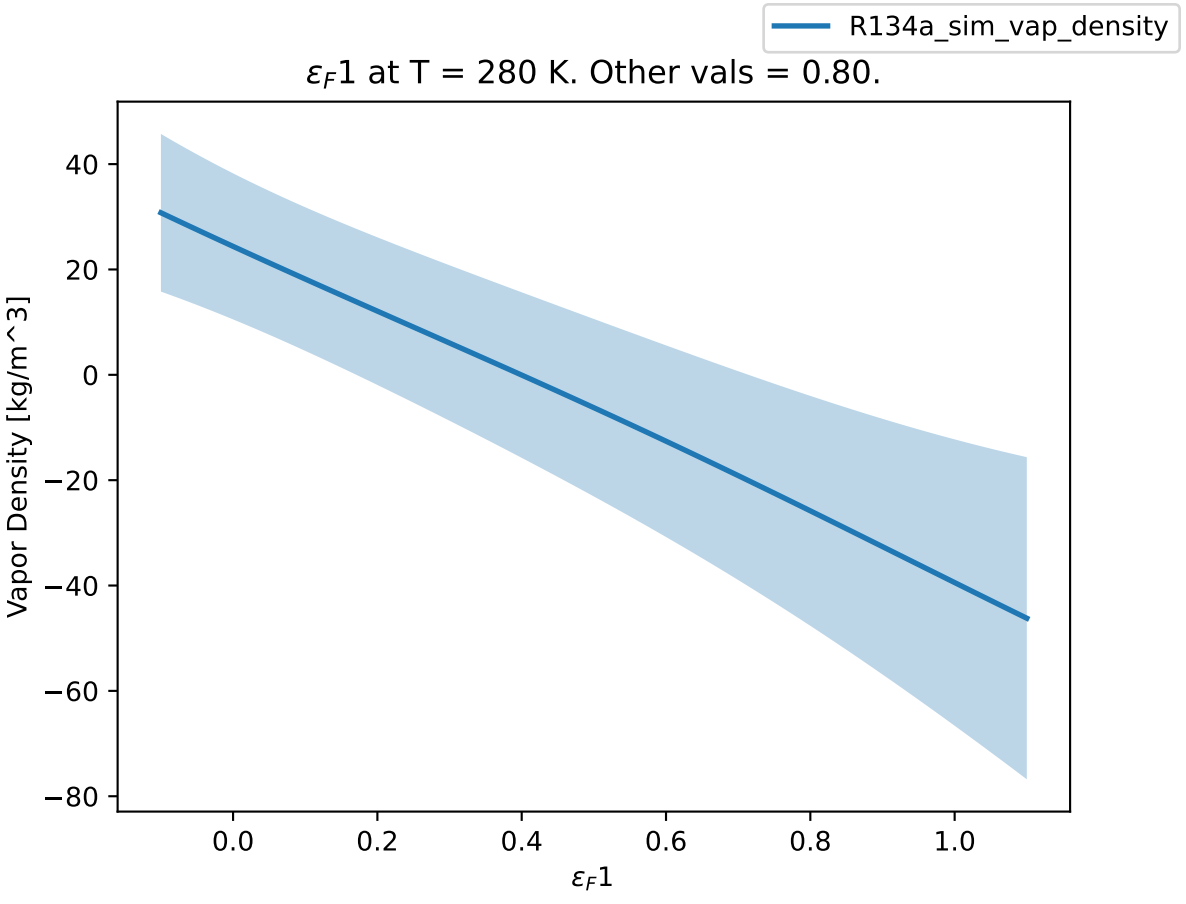

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
200
175
150
125
100
75
50
25
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

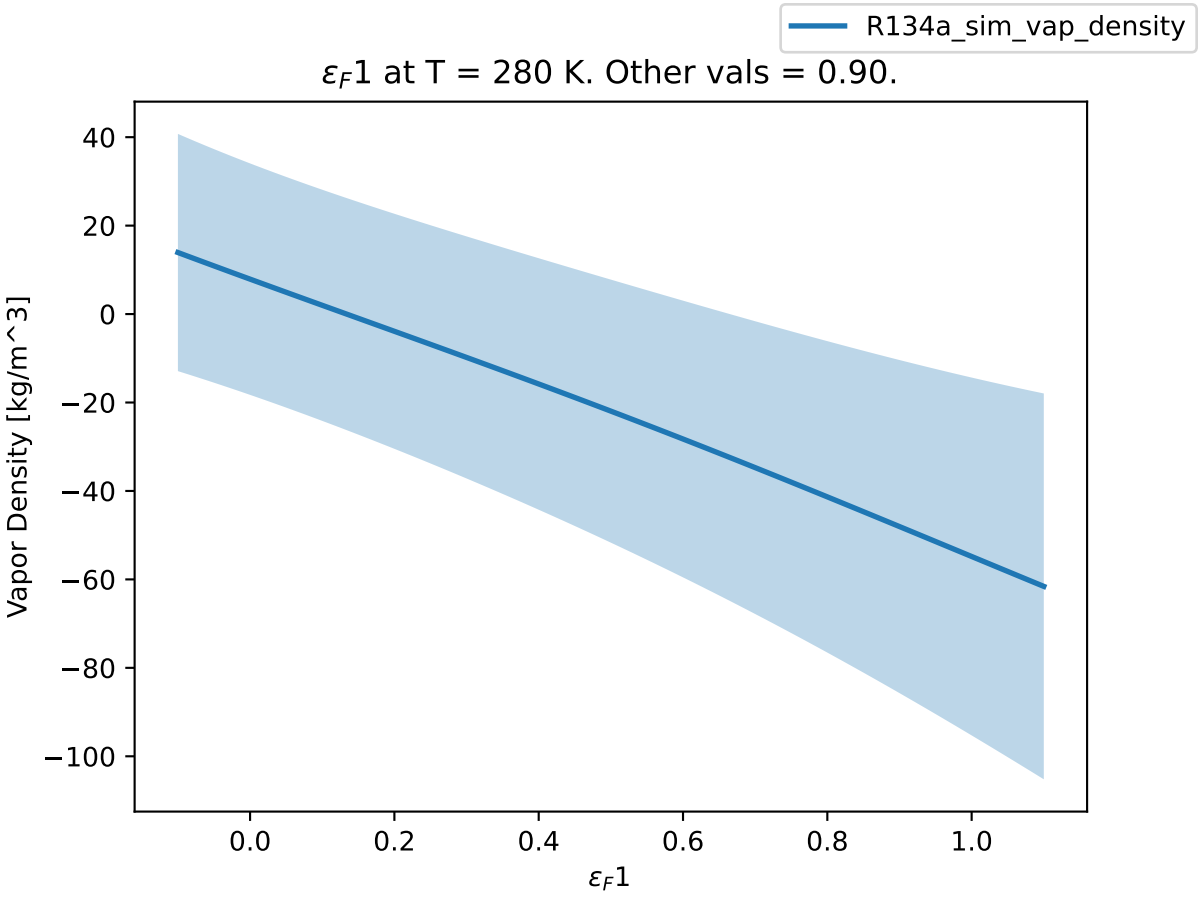

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
160
140
120
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

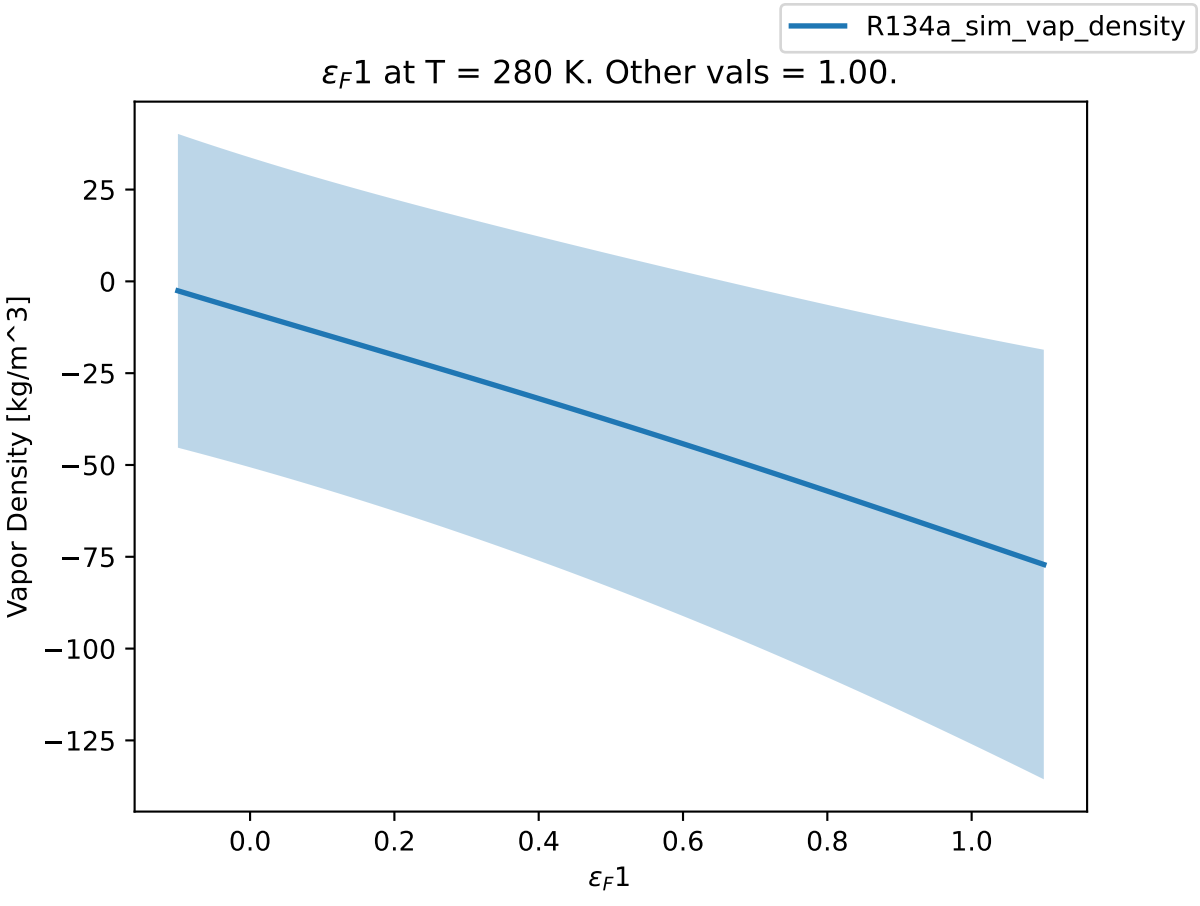

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
120
100
80
60
40
20
0
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

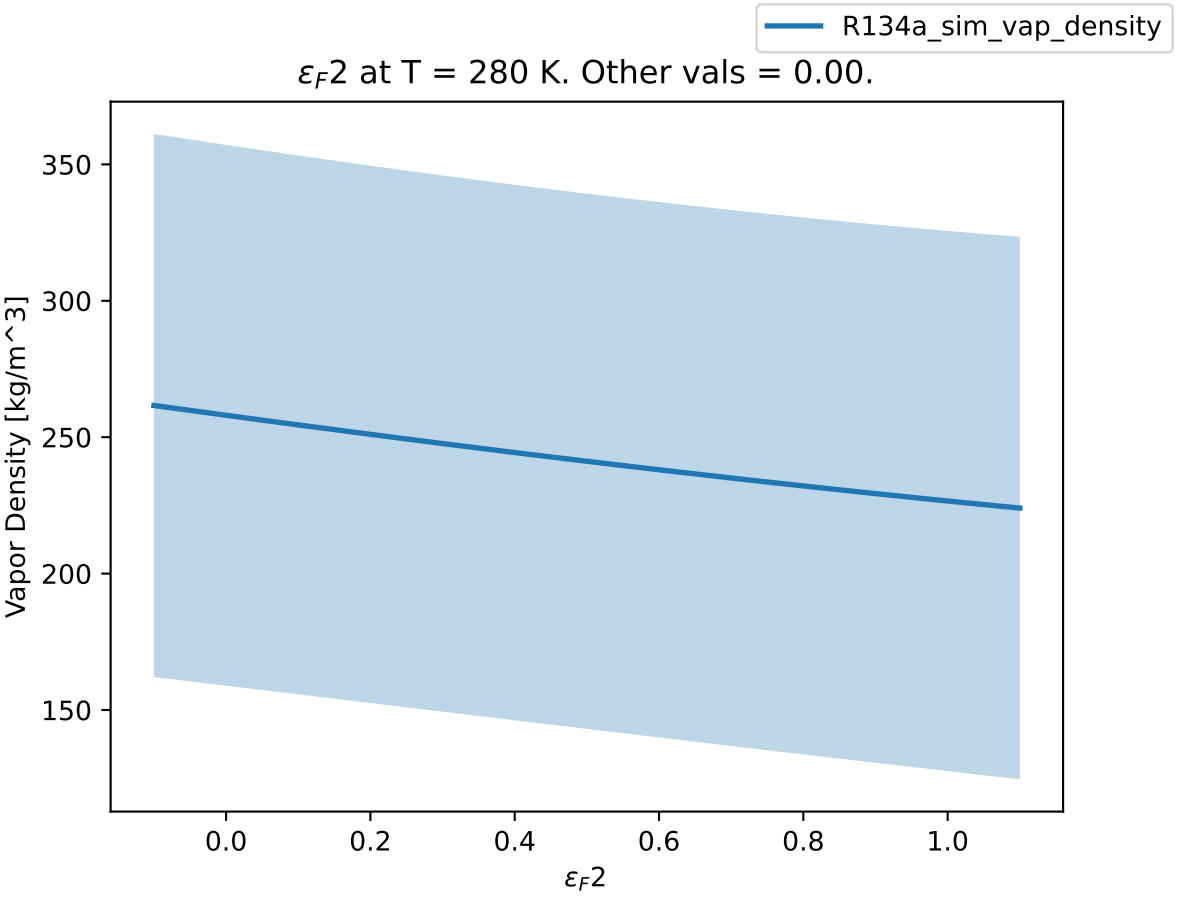

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

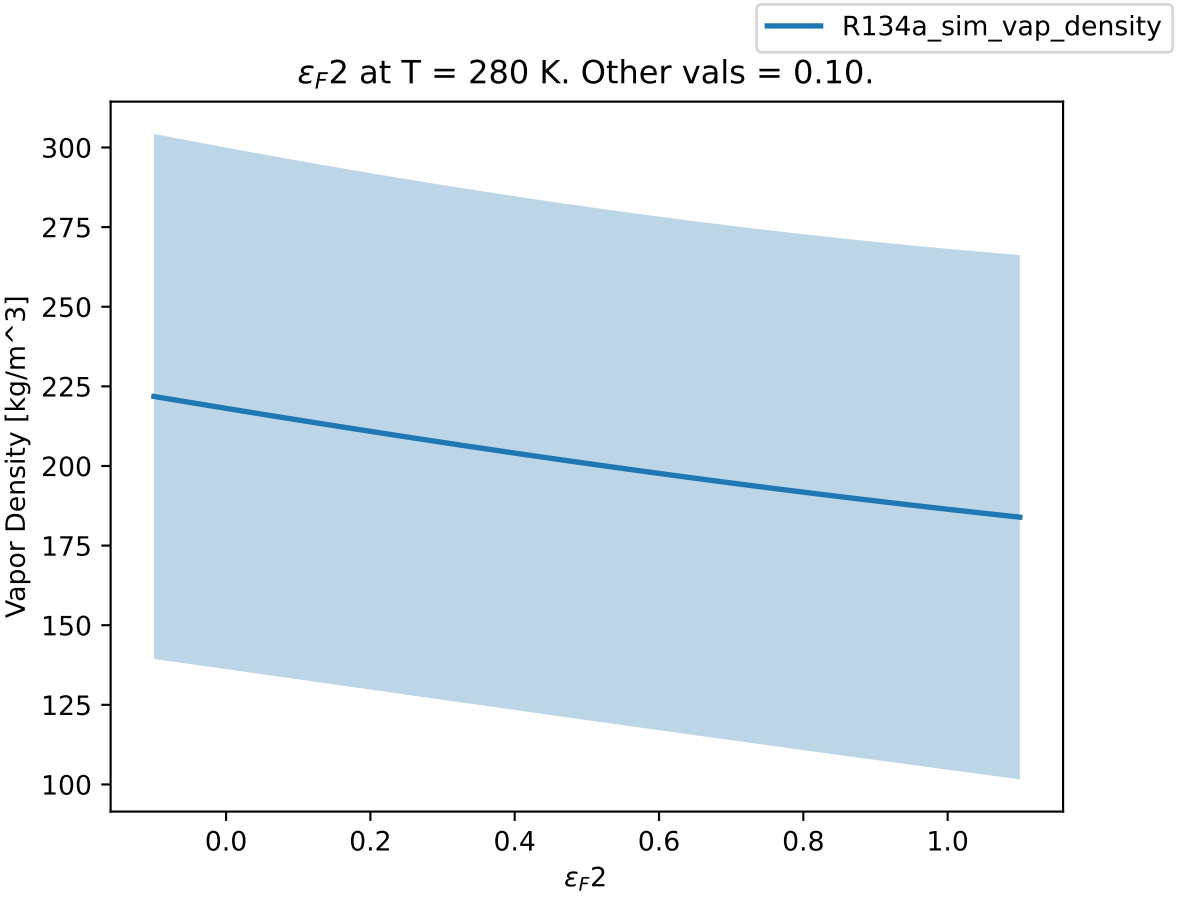

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
60
40
20
0
−20
−40
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

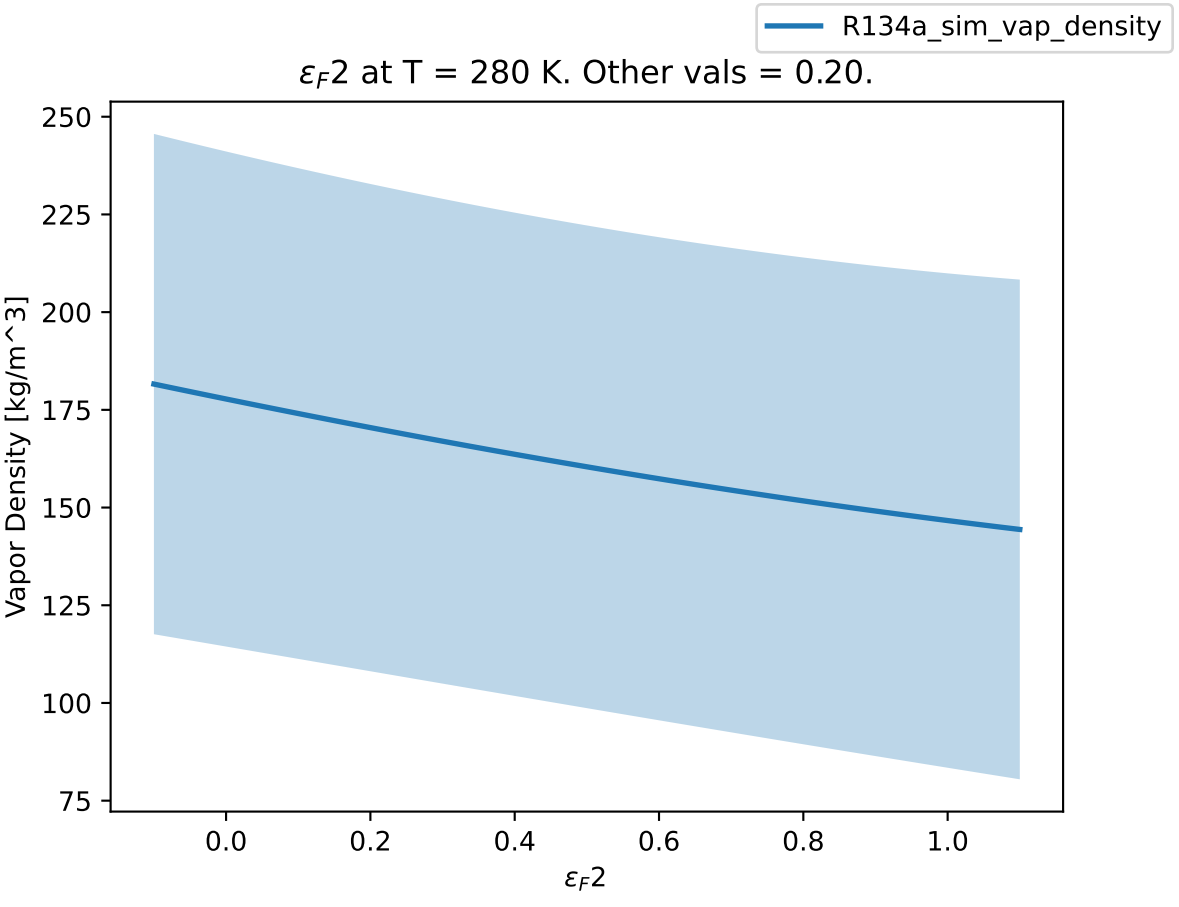

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
40
20
0
−20
−40
−60
−80
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

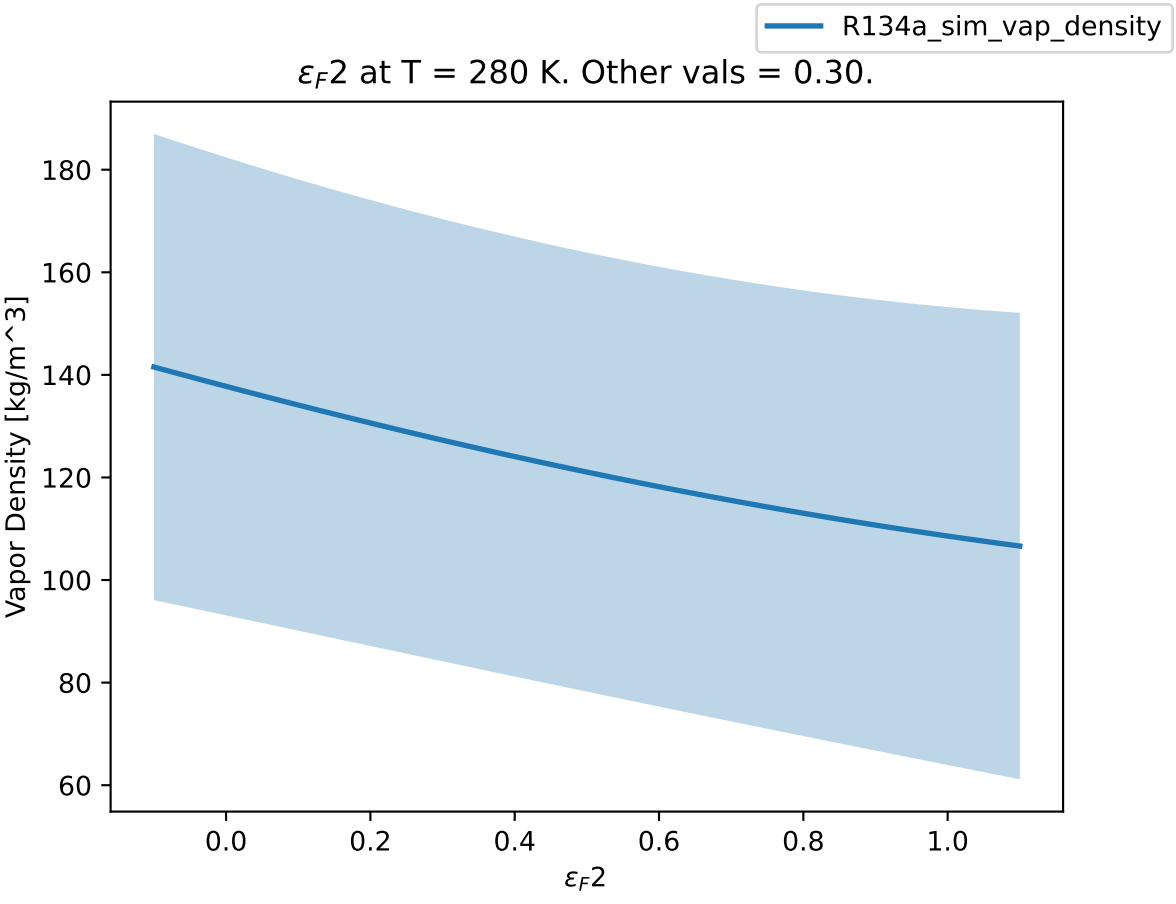

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
40
20
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

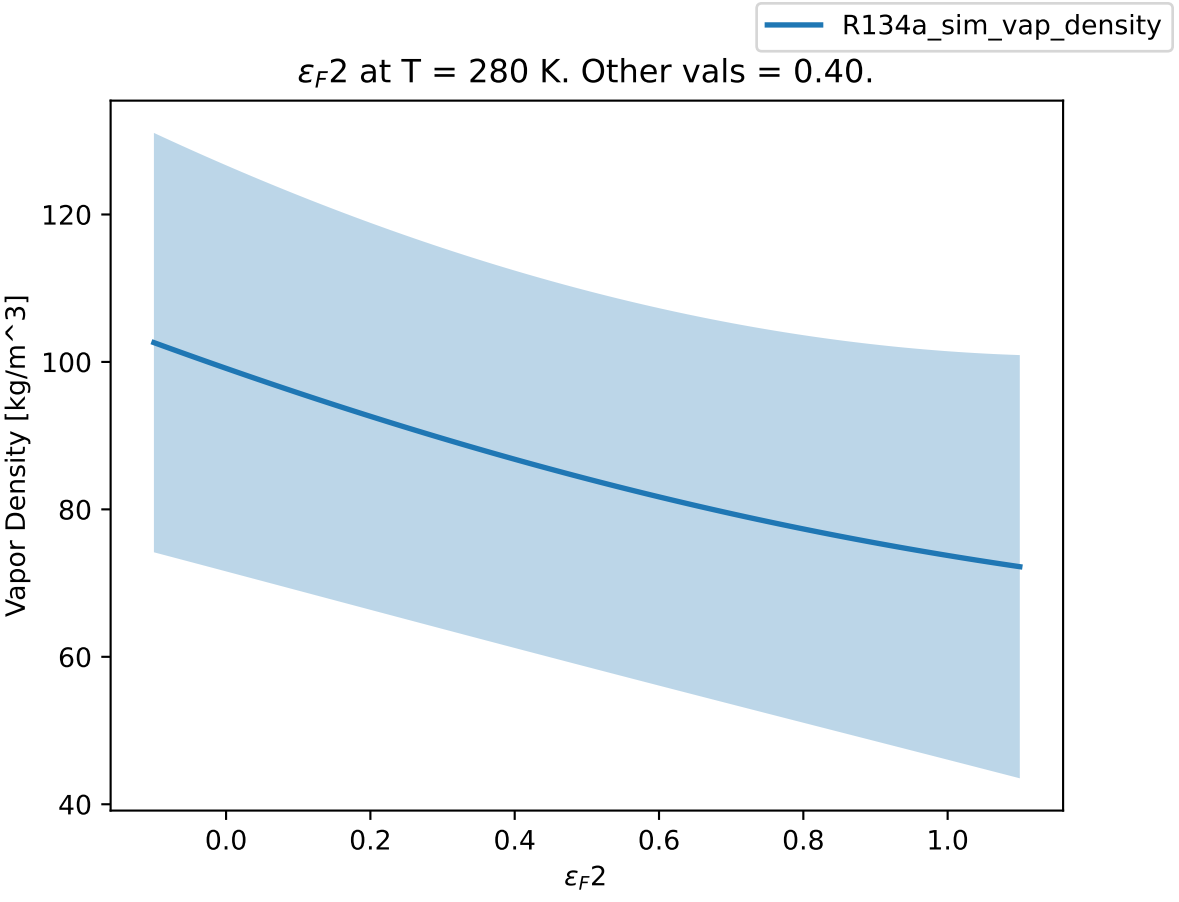

R134a_sim_vap_density
ε_F1 at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

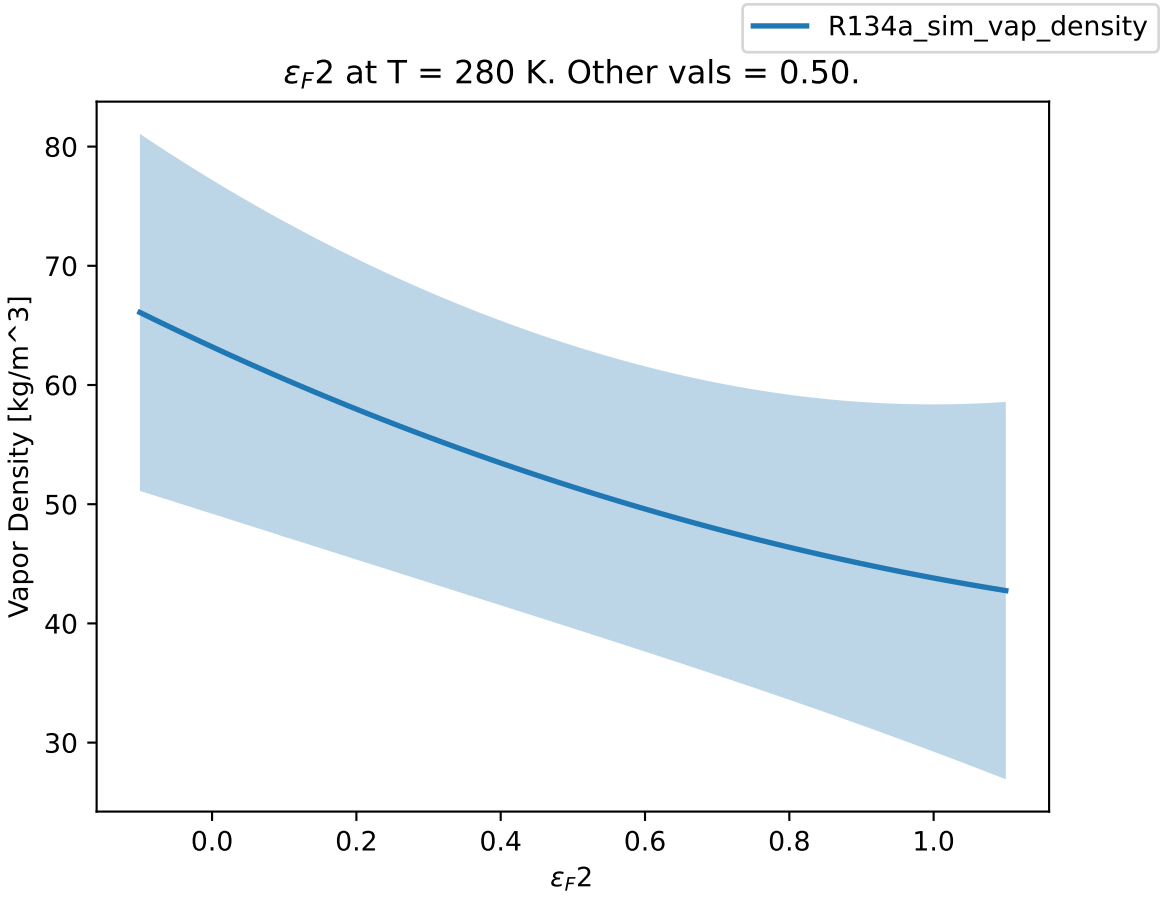

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

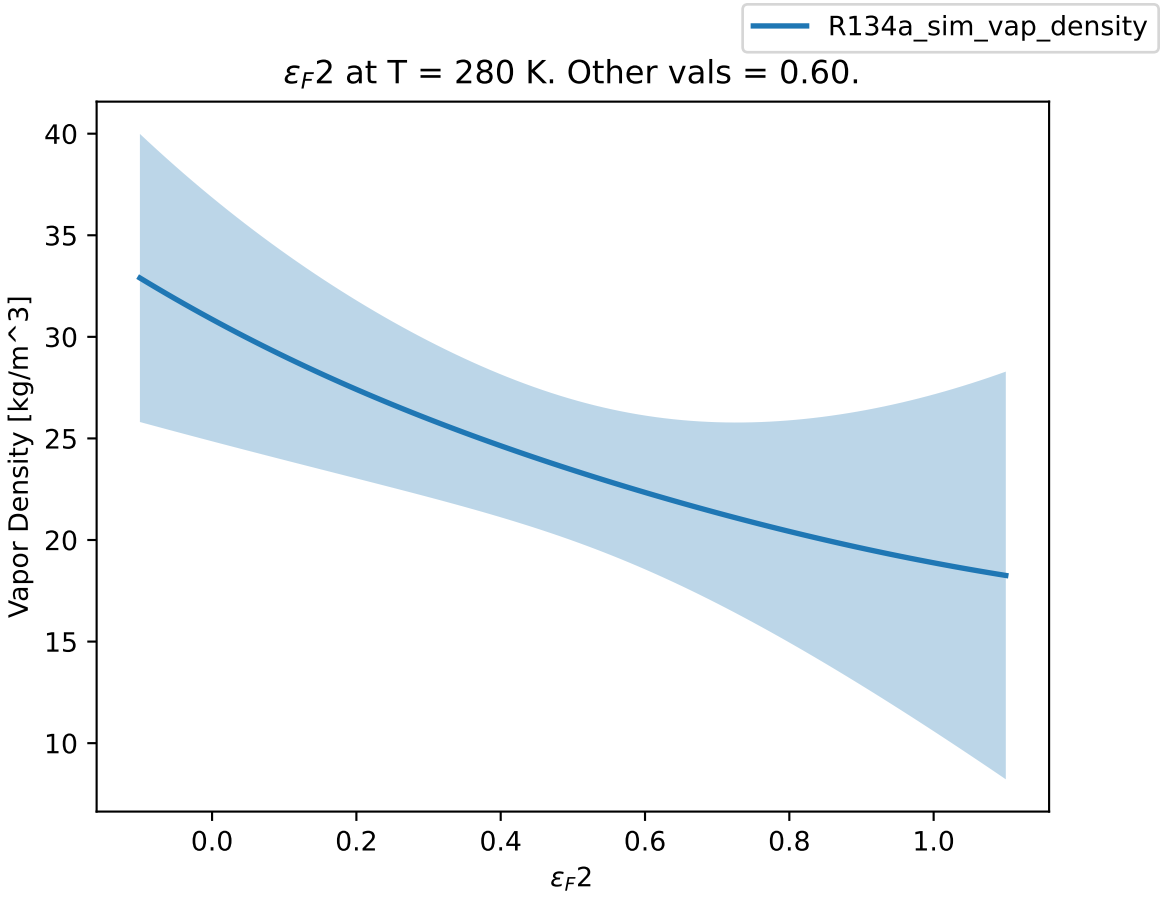

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
275
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

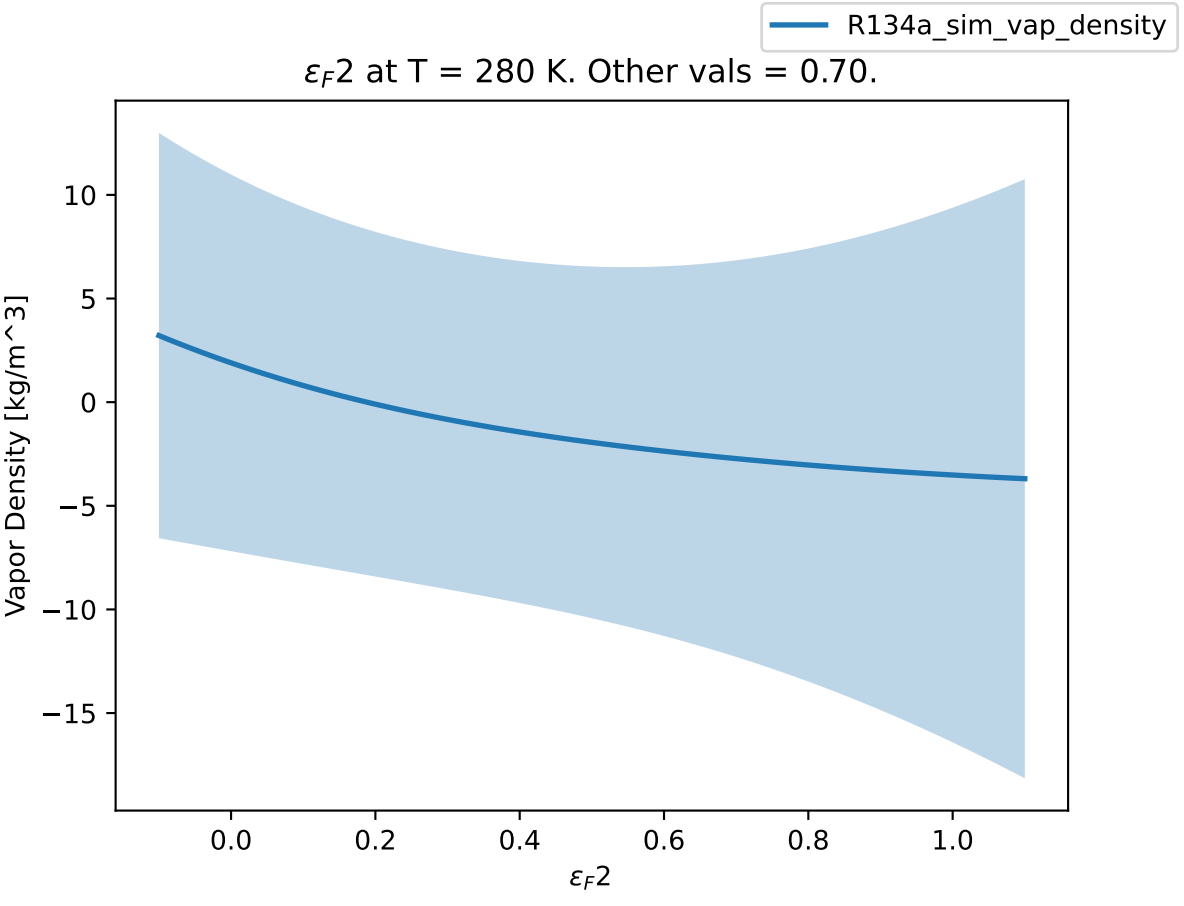

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
250
225
200
175
150
125
100
75
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

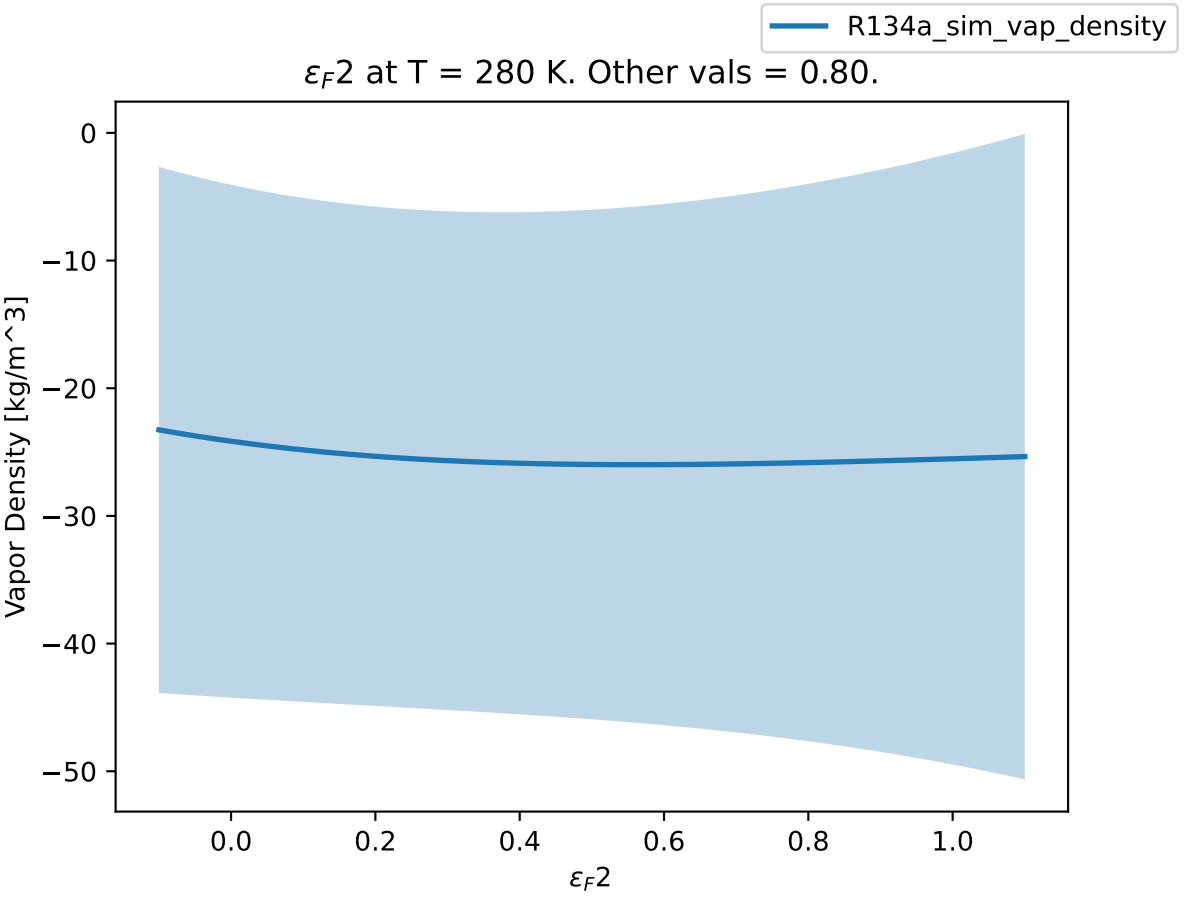

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
180
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

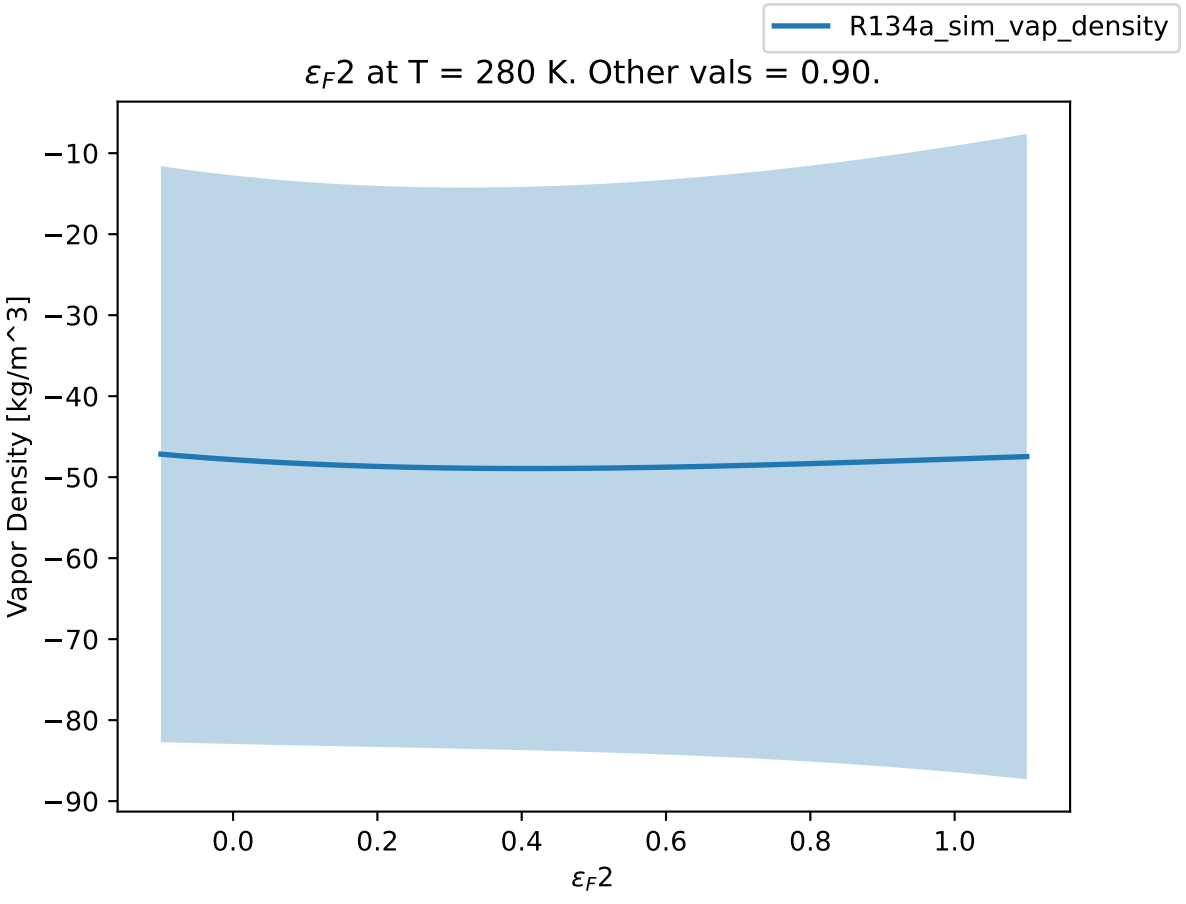

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

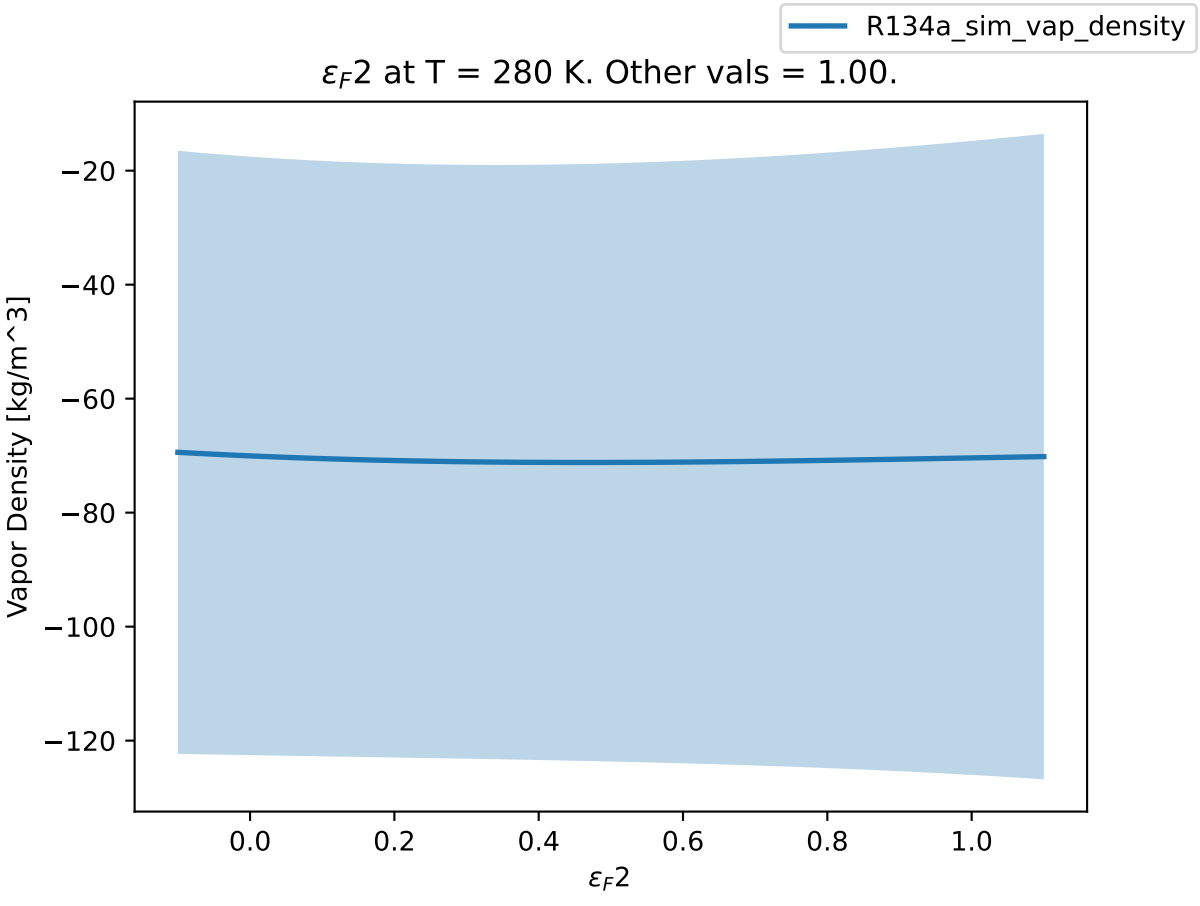

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

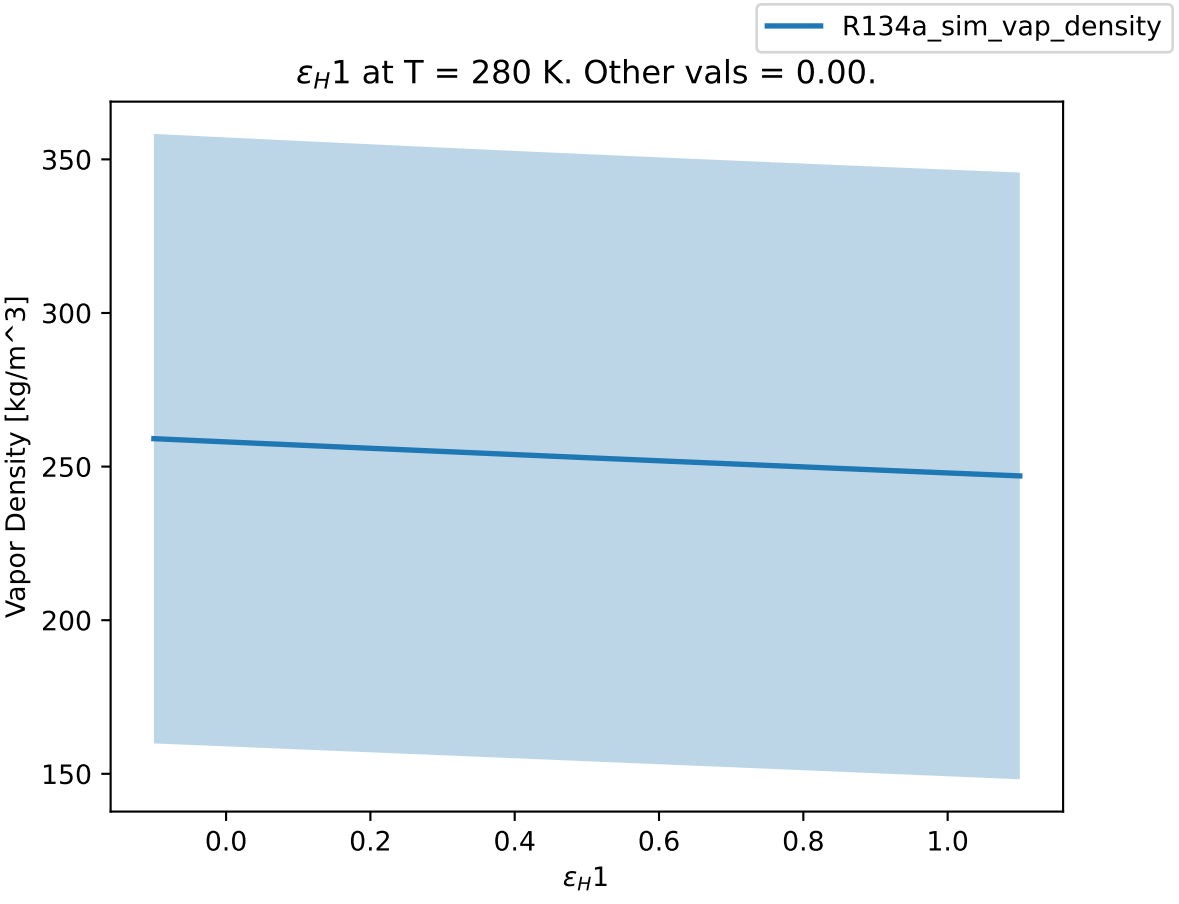

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
40
35
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

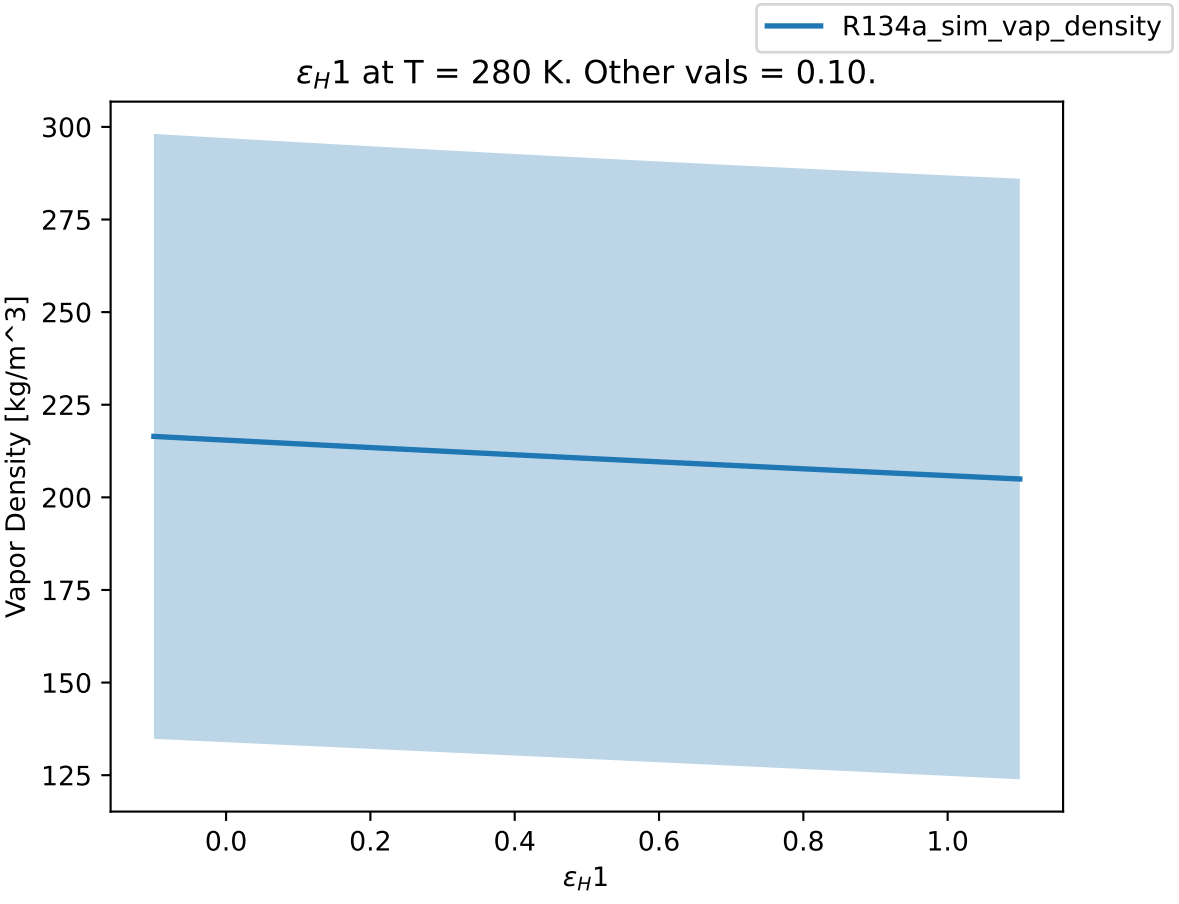

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

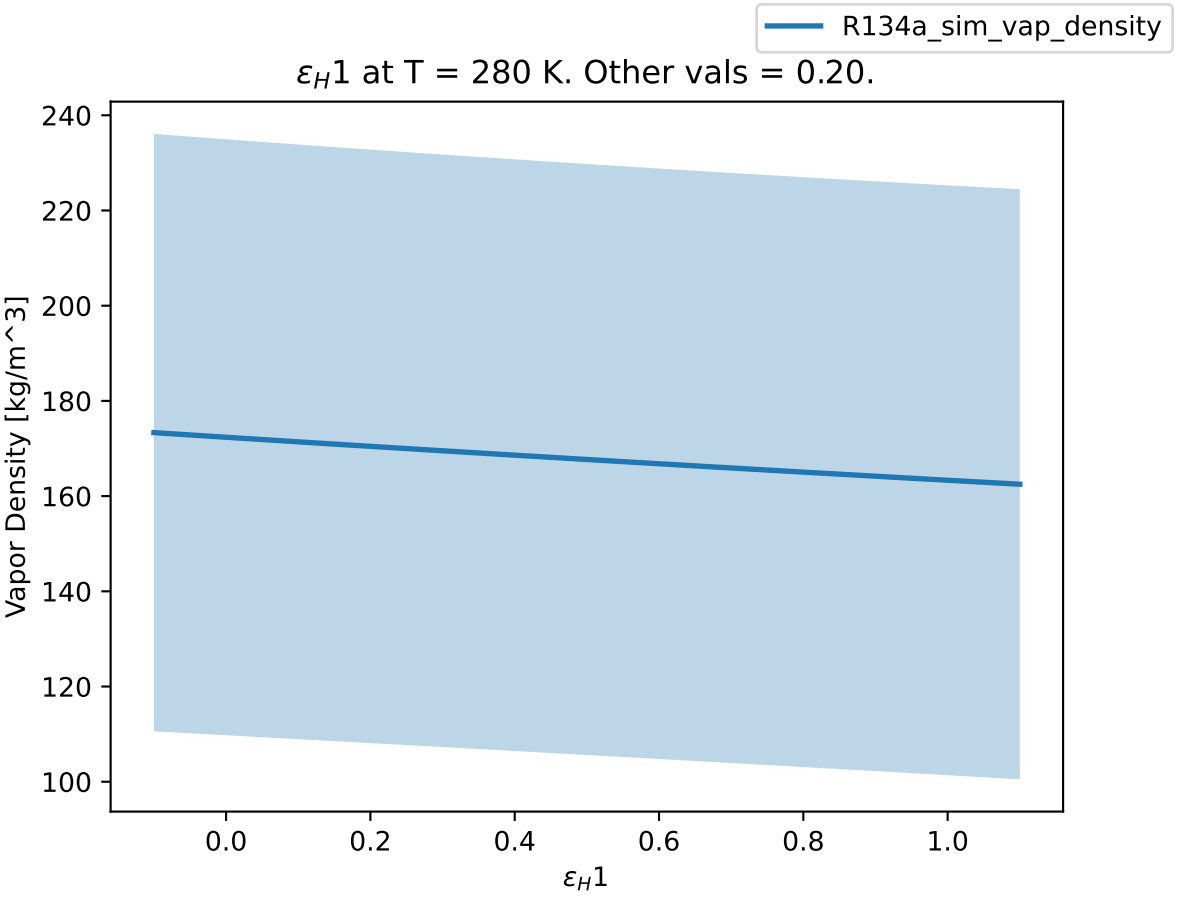

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
0
−10
−20
−30
−40
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

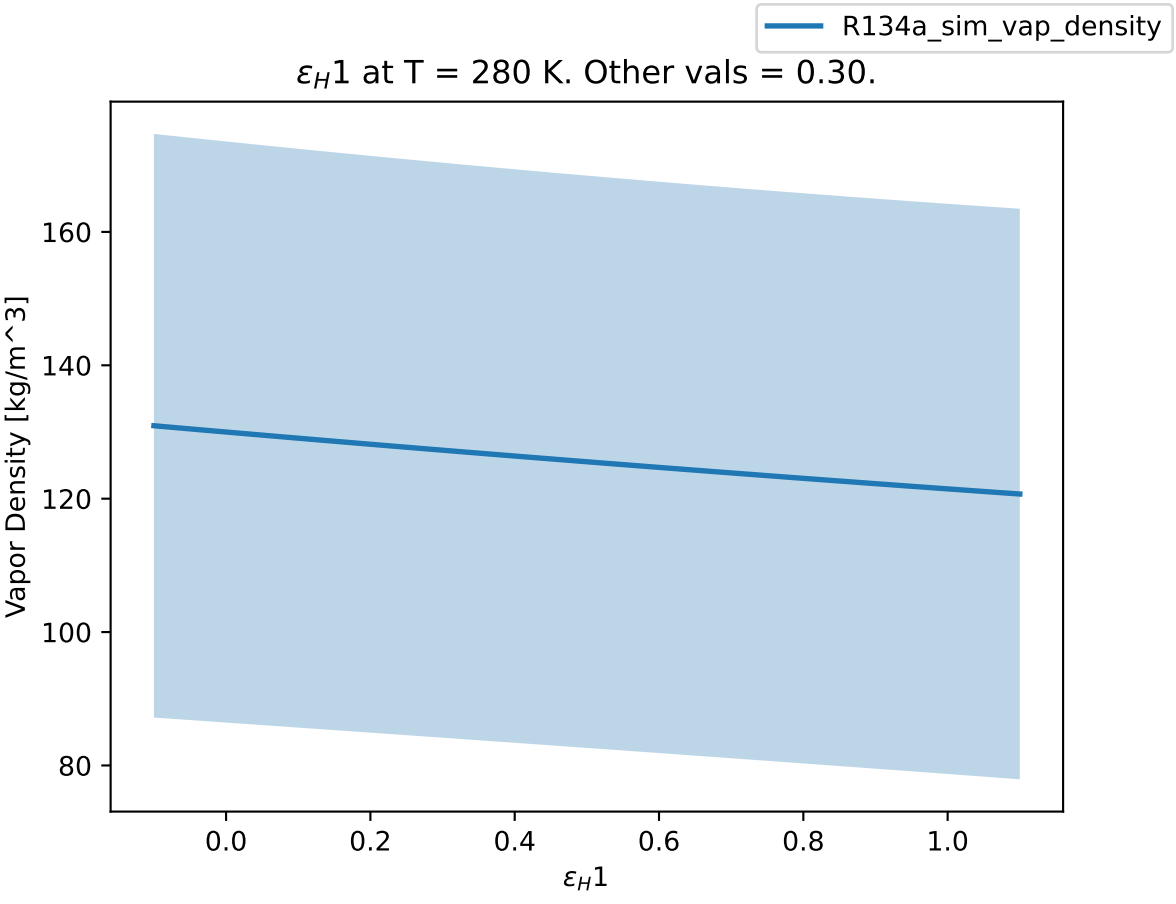

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
−10
−20
−30
−40
−50
−60
−70
−80
−90
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

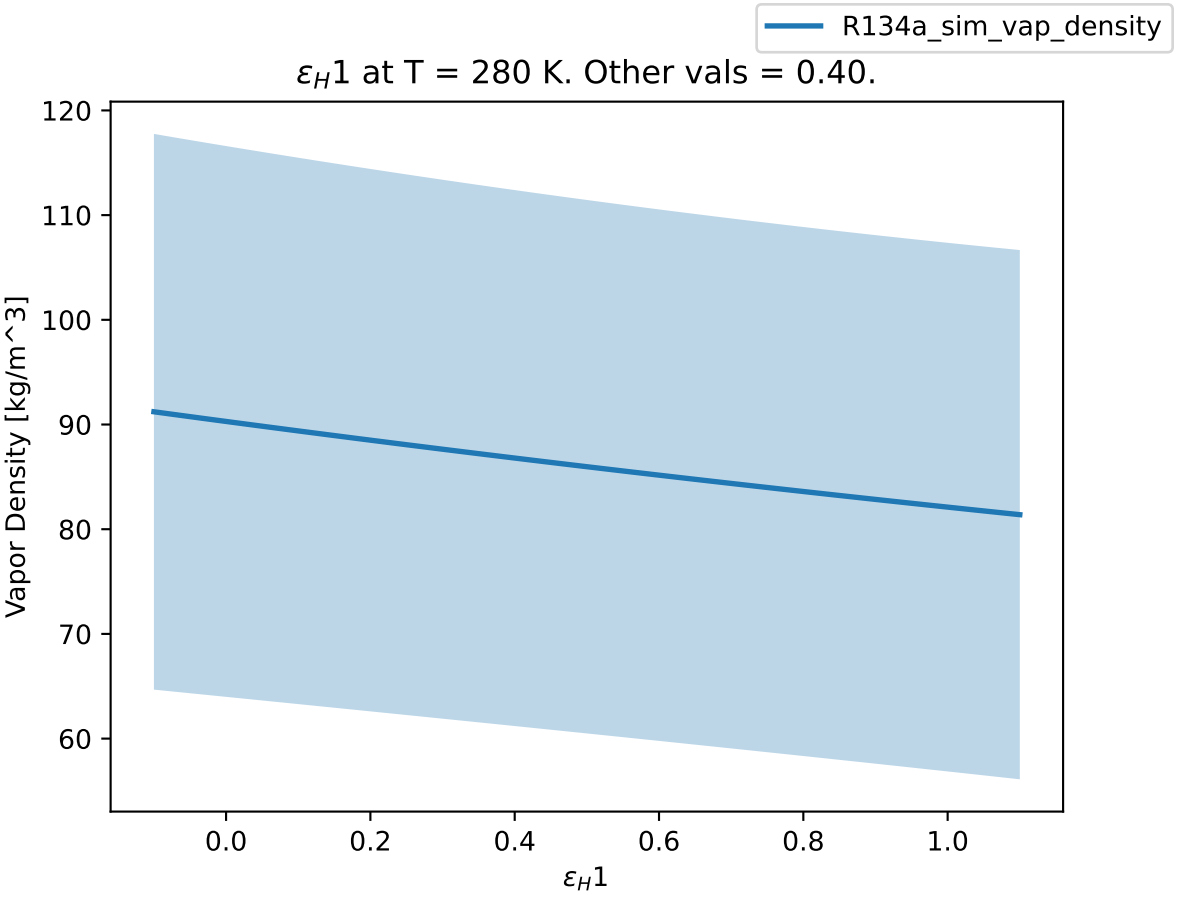

R134a_sim_vap_density
$\varepsilon_F 2$ at T = 280 K. Other vals = 1.00.
−20
−40
−60
−80
−100
−120
Vapor Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

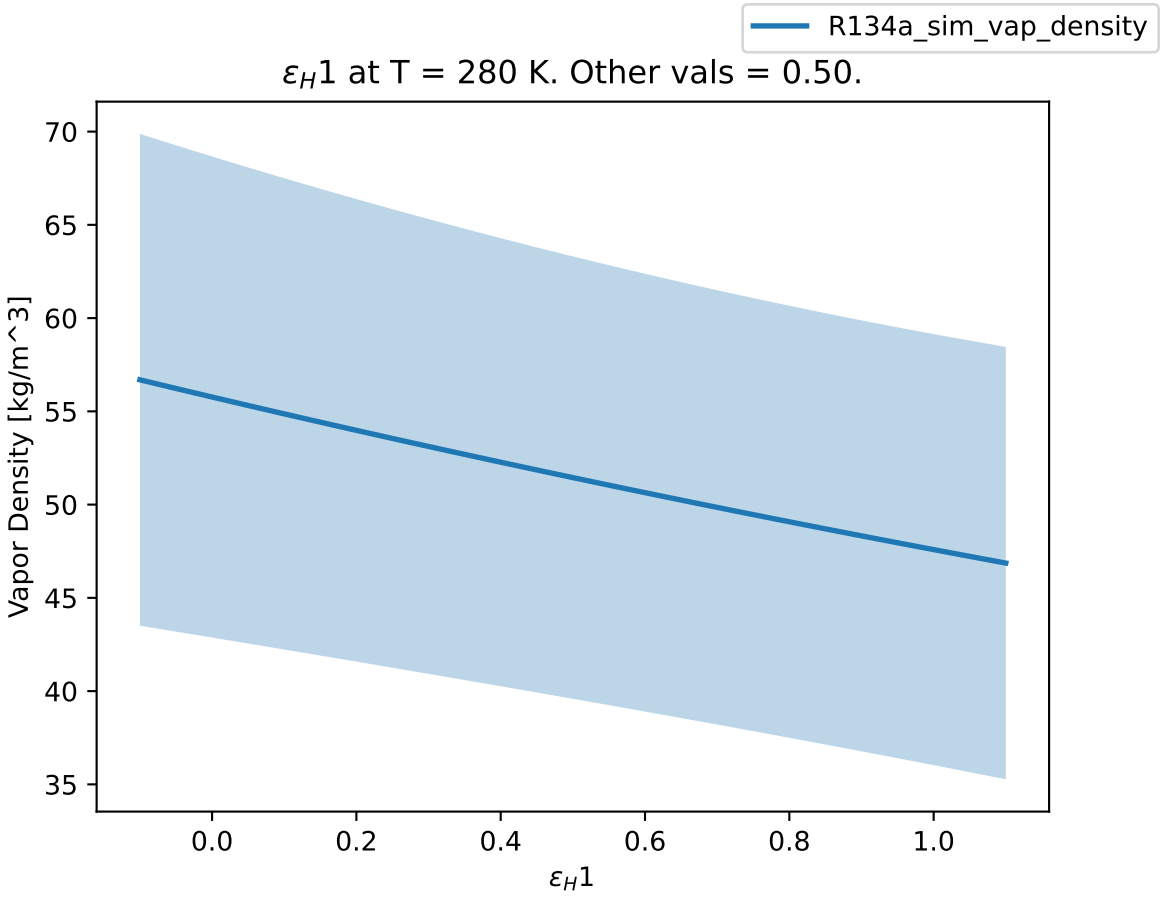

R134a_sim_vap_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.00.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

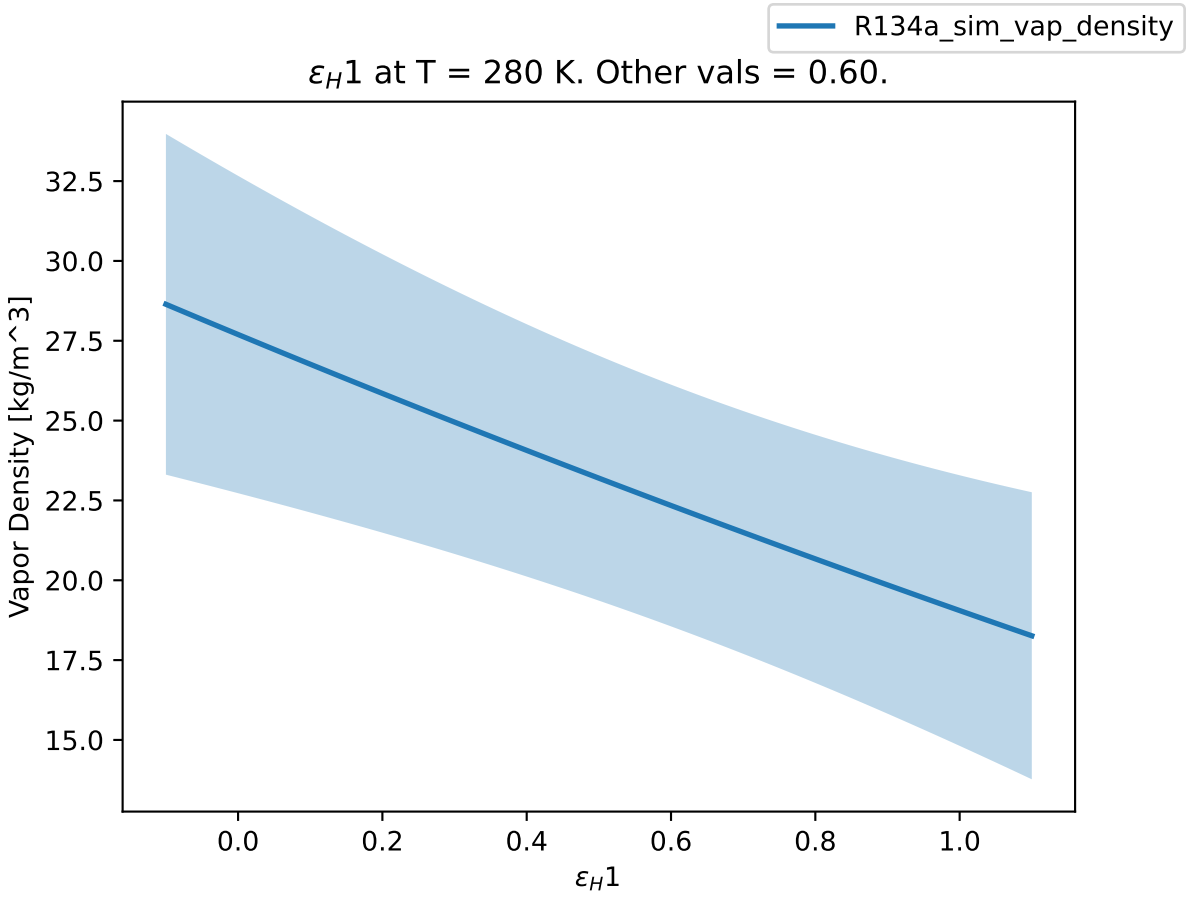

R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.10.
Vapor Density [kg/m^3]
300
275
250
225
200
175
150
125
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

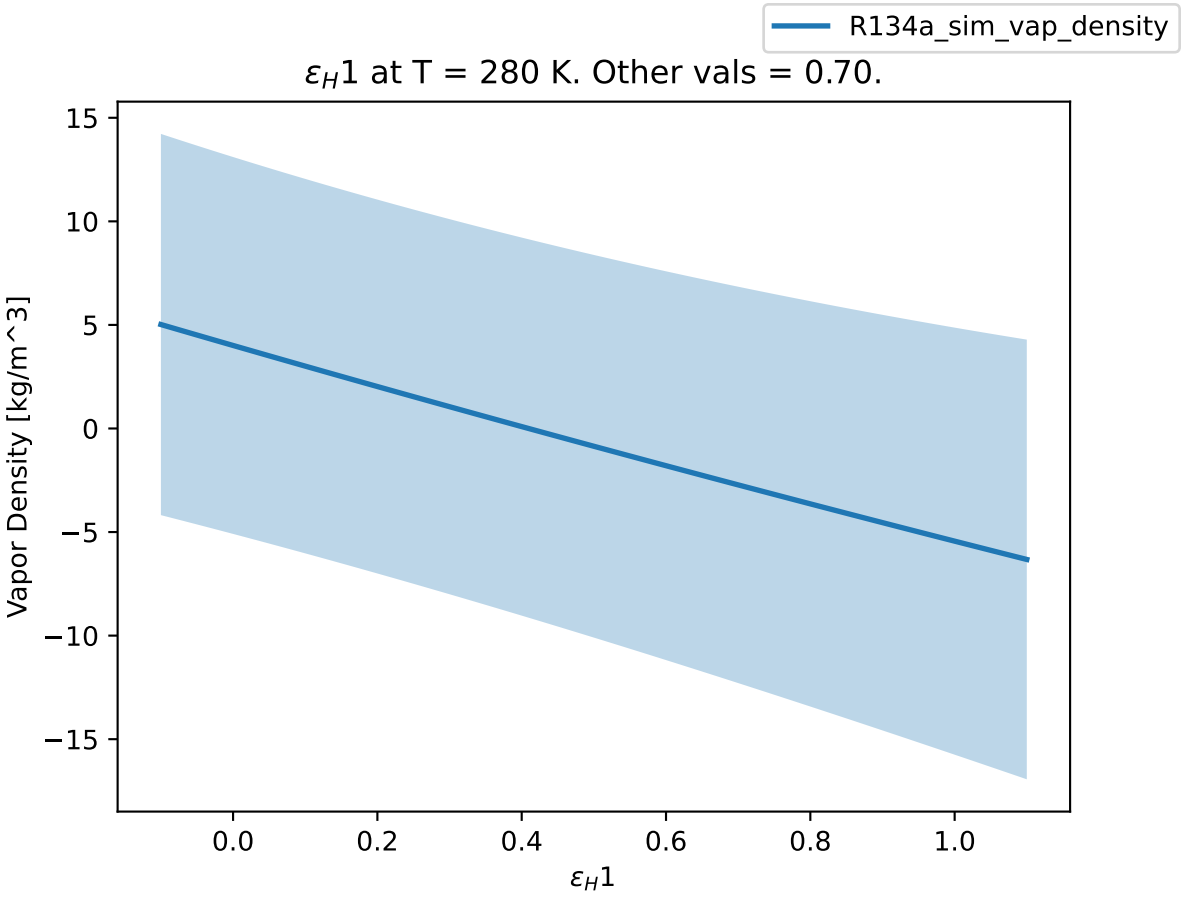

R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.20.
Vapor Density [kg/m^3]
240
220
200
180
160
140
120
100
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

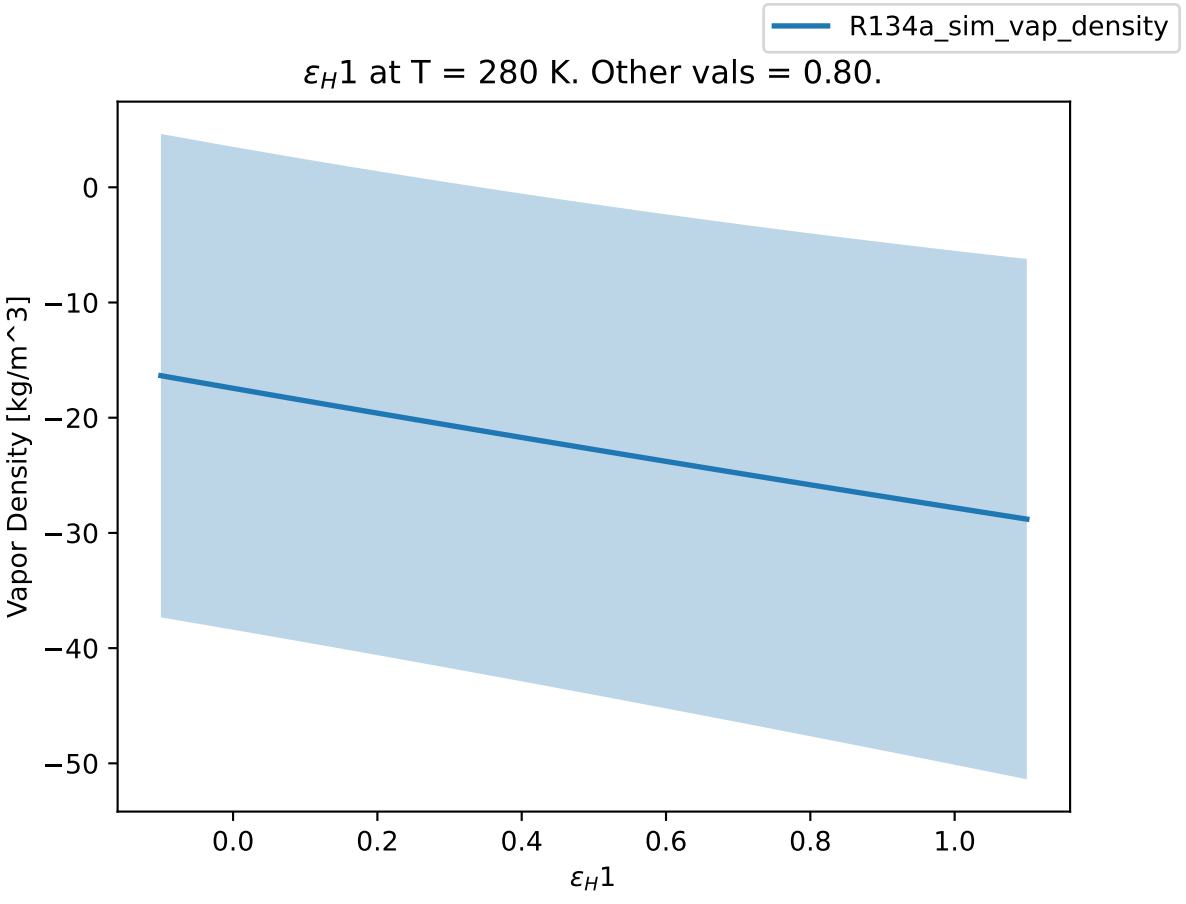

R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.30.
Vapor Density [kg/m^3]
160
140
120
100
80
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

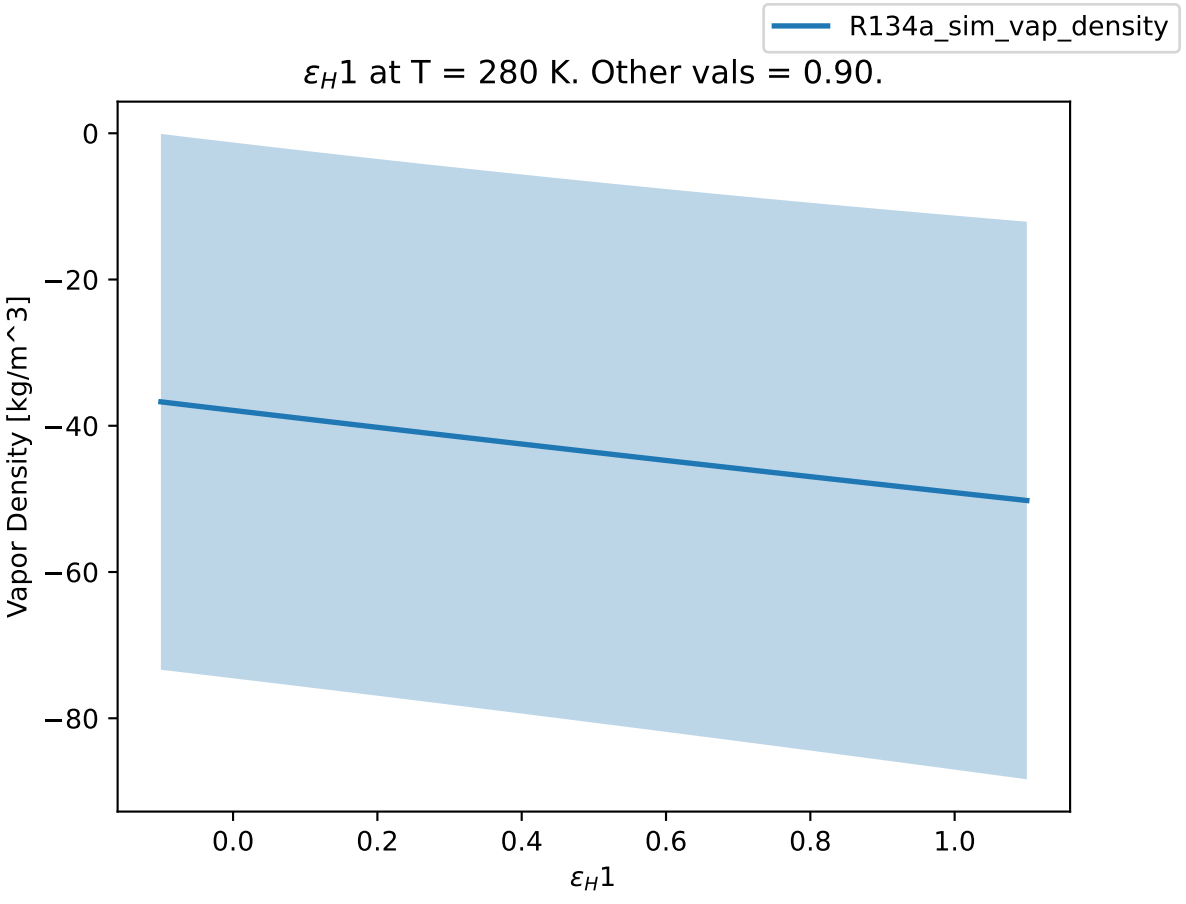

R134a_sim_vap_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.40.
Vapor Density [kg/m^3]
120
110
100
90
80
70
60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

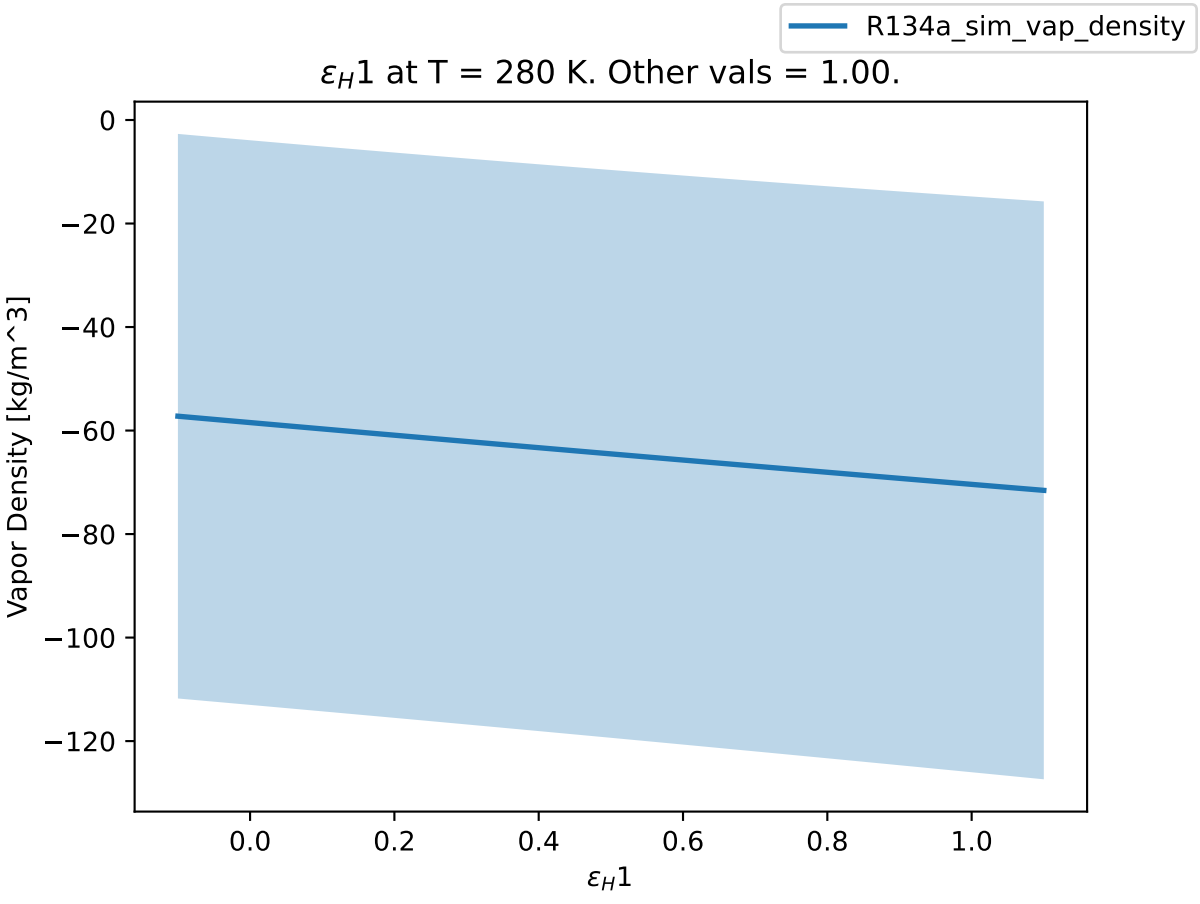

R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.50.
Vapor Density [kg/m^3]
70
65
60
55
50
45
40
35
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

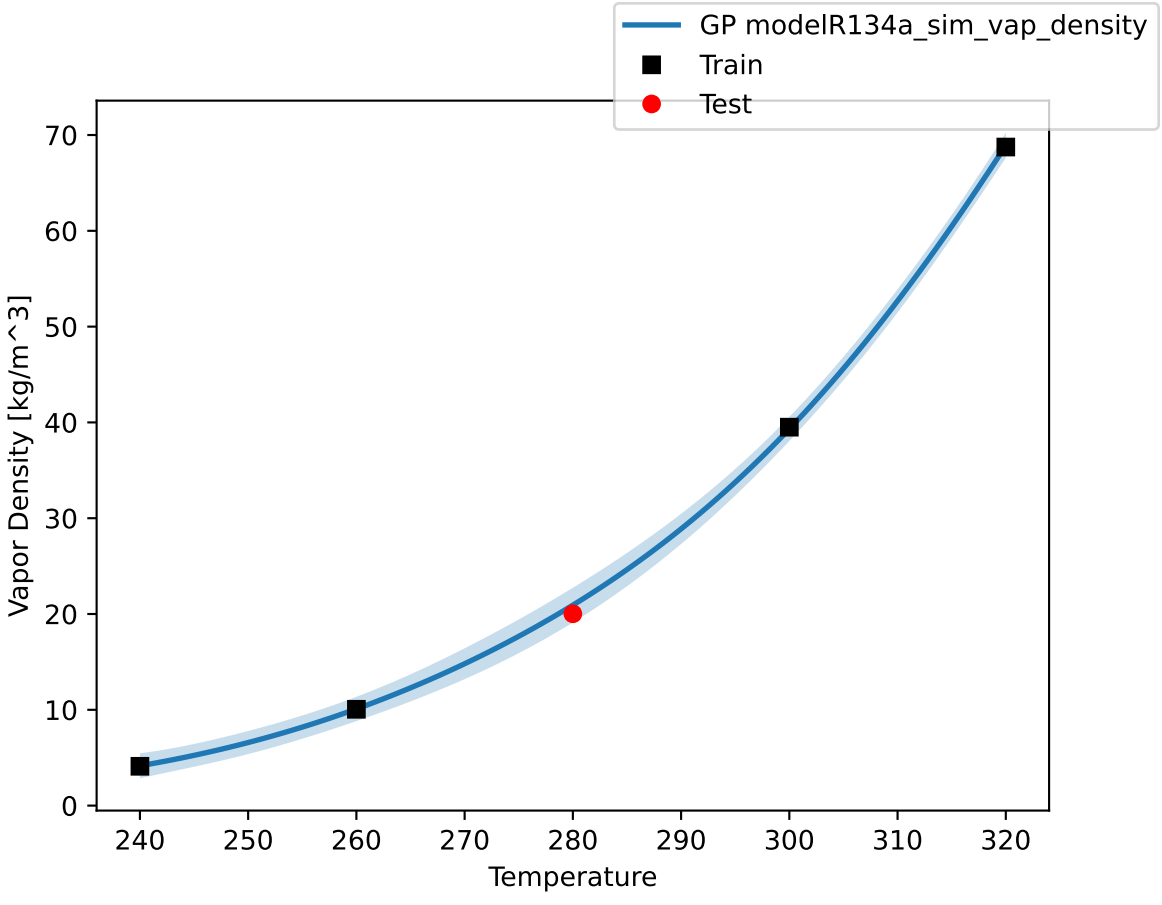

R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.60.
Vapor Density [kg/m^3]
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

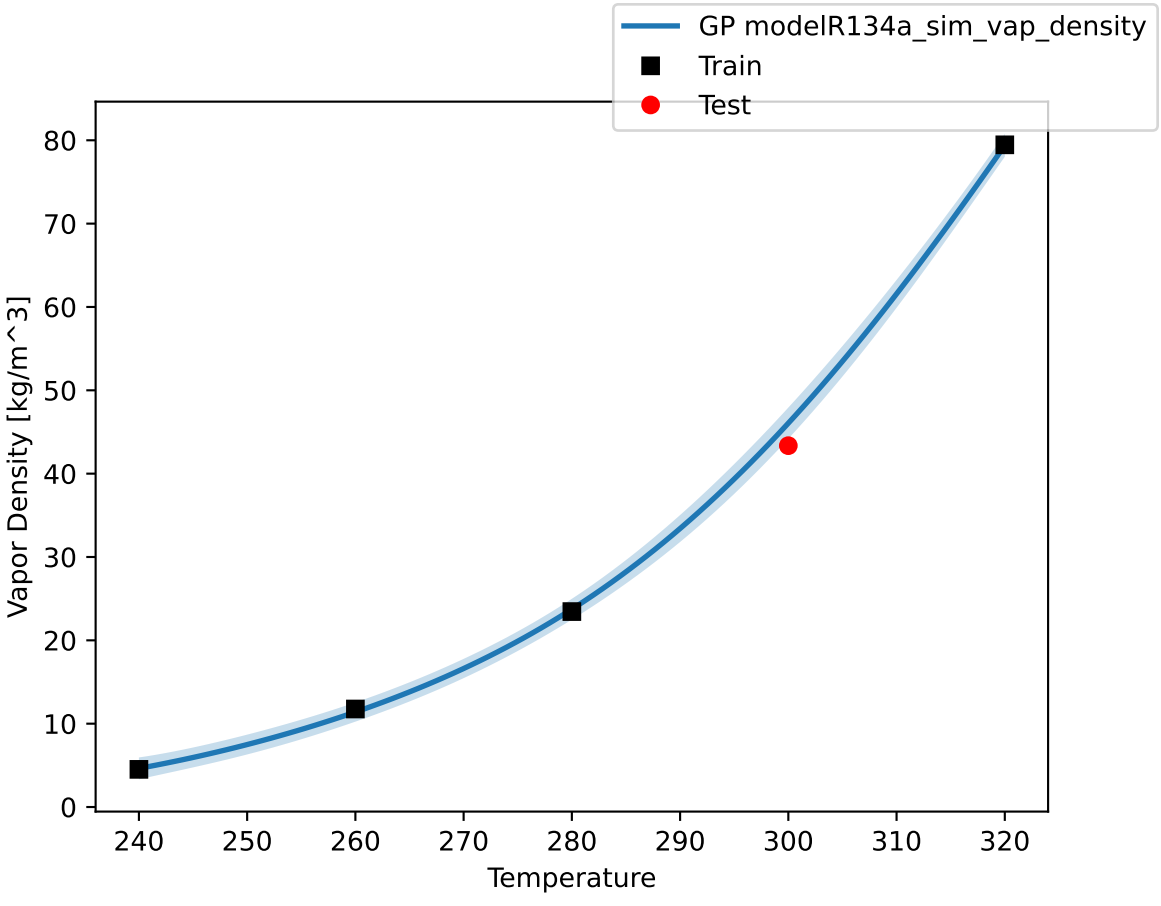

R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.70.
Vapor Density [kg/m^3]
15
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1


R134a_sim_vap_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.80.
Vapor Density [kg/m^3]
0
−10
−20
−30
−40
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


R134a_sim_vap_density
ε_H1 at T = 280 K. Other vals = 0.90.
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1


R134a_sim_vap_density
$\varepsilon_H 1$ at T = 280 K. Other vals = 1.00.
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
−100
−120
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
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70
80
240
250
260
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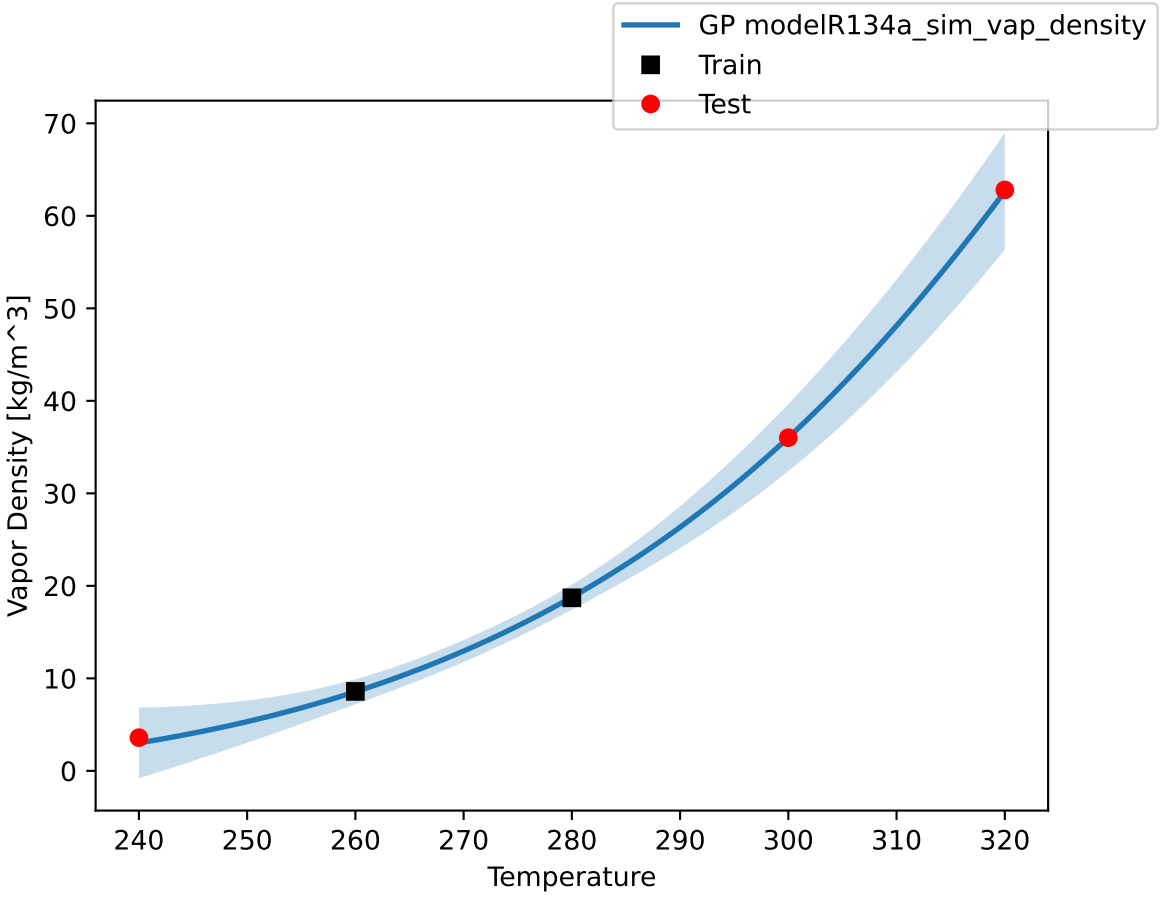
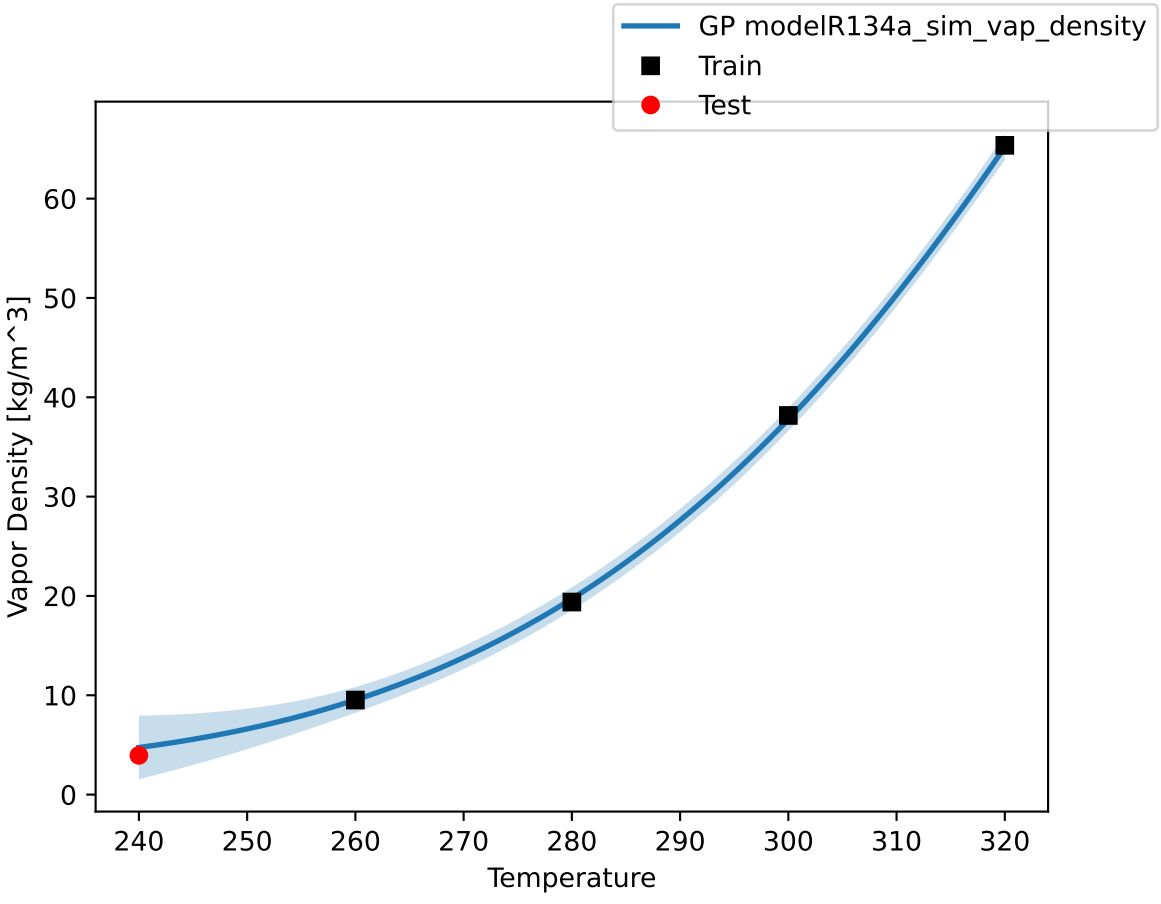
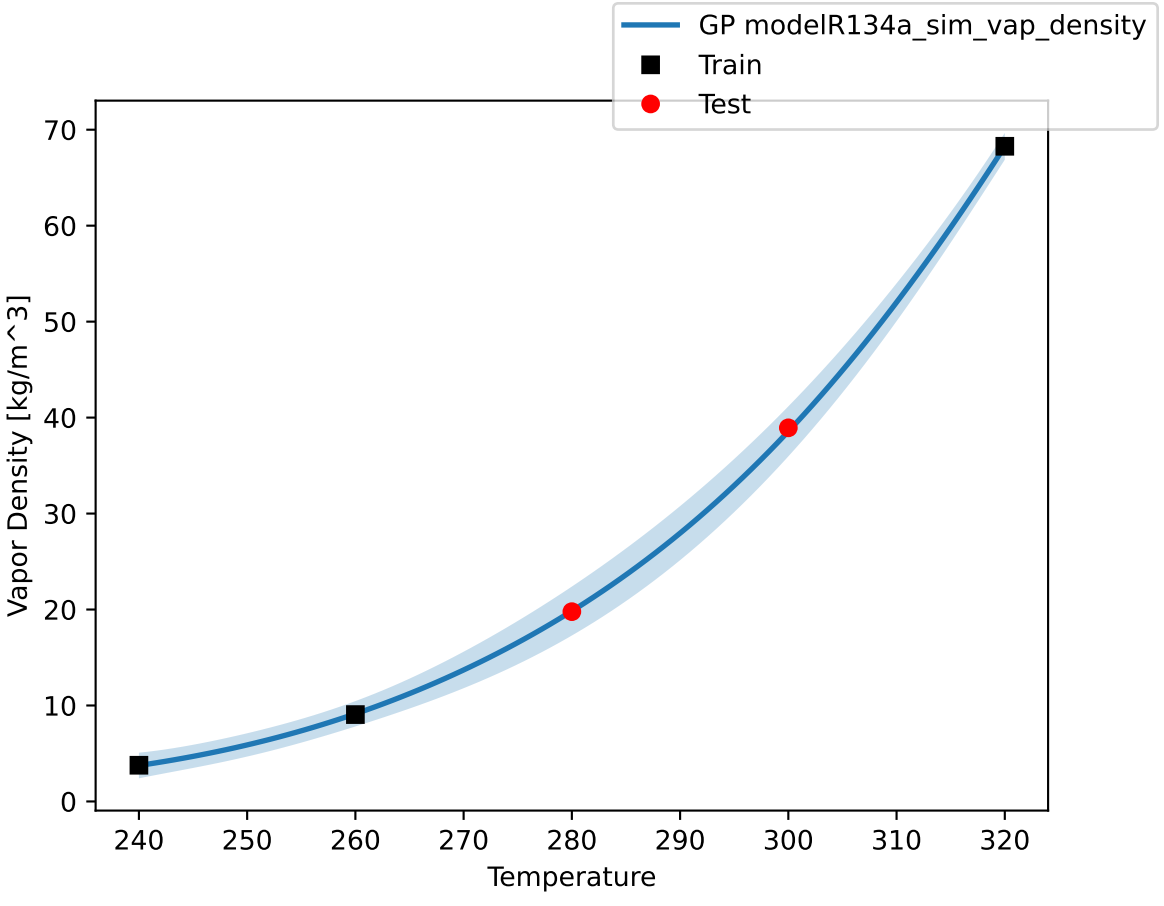
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
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250
260
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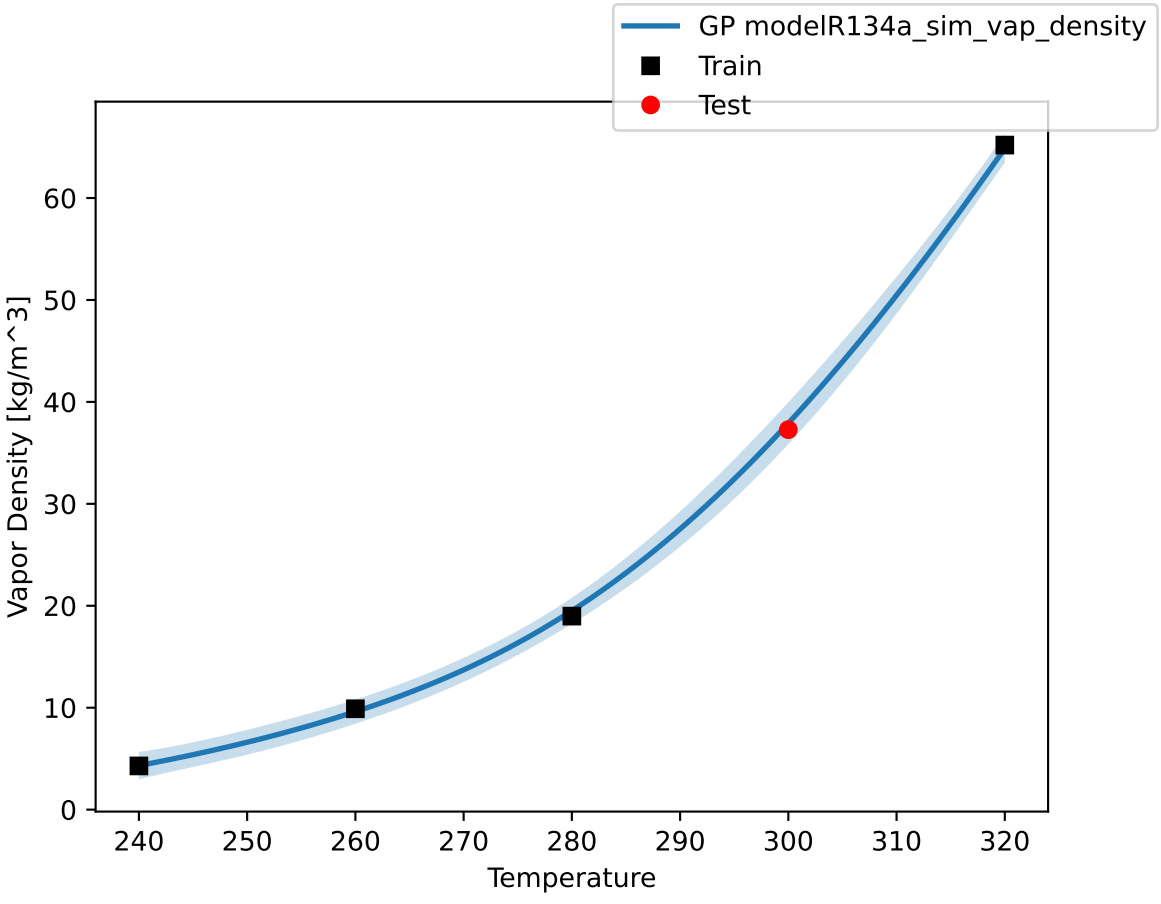
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
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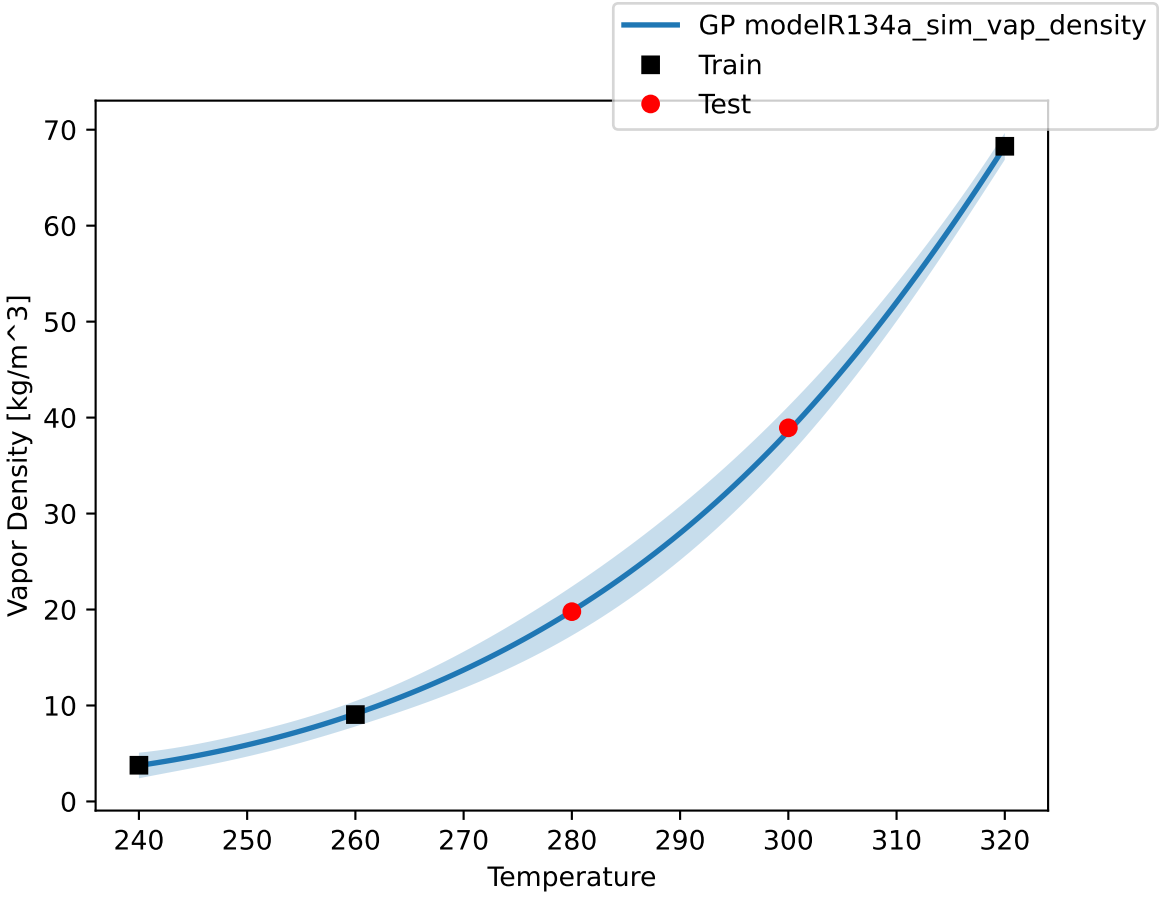
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
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50
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250
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300
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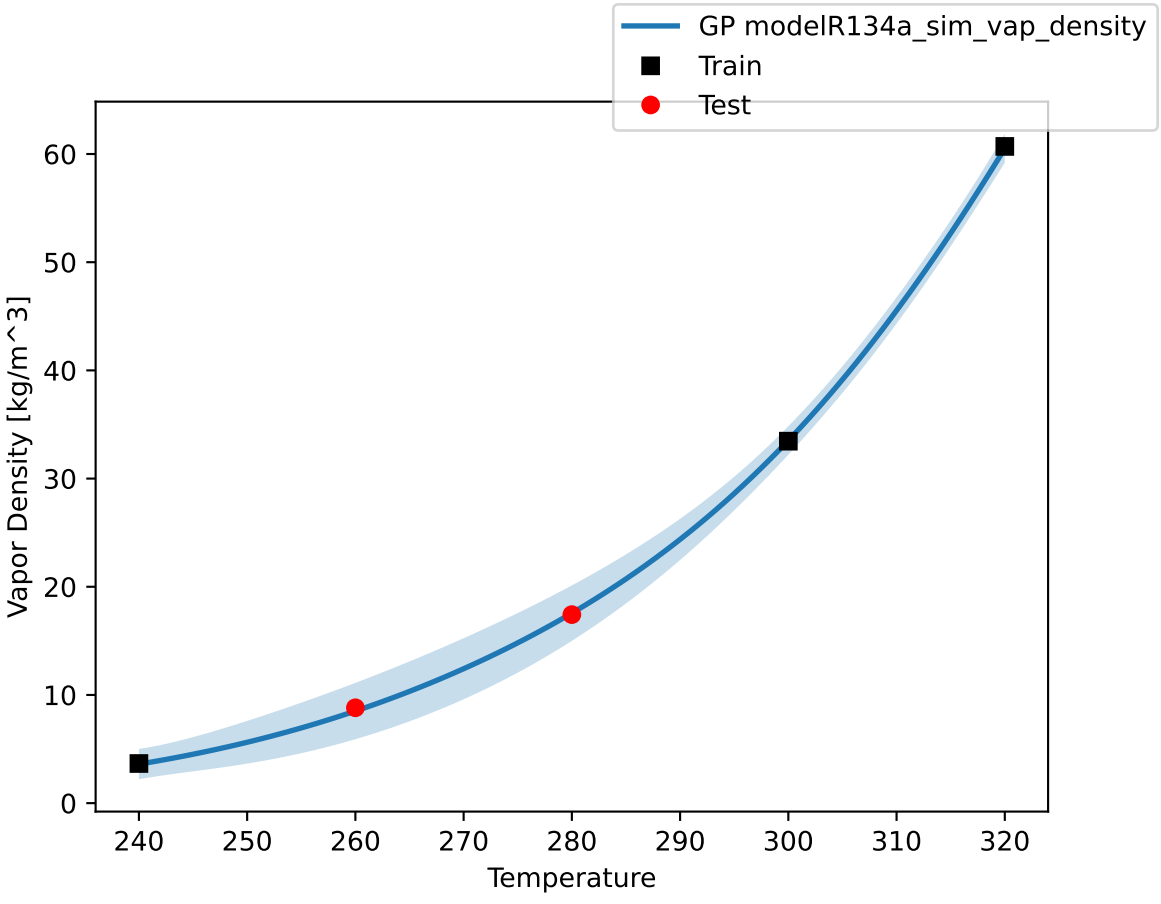
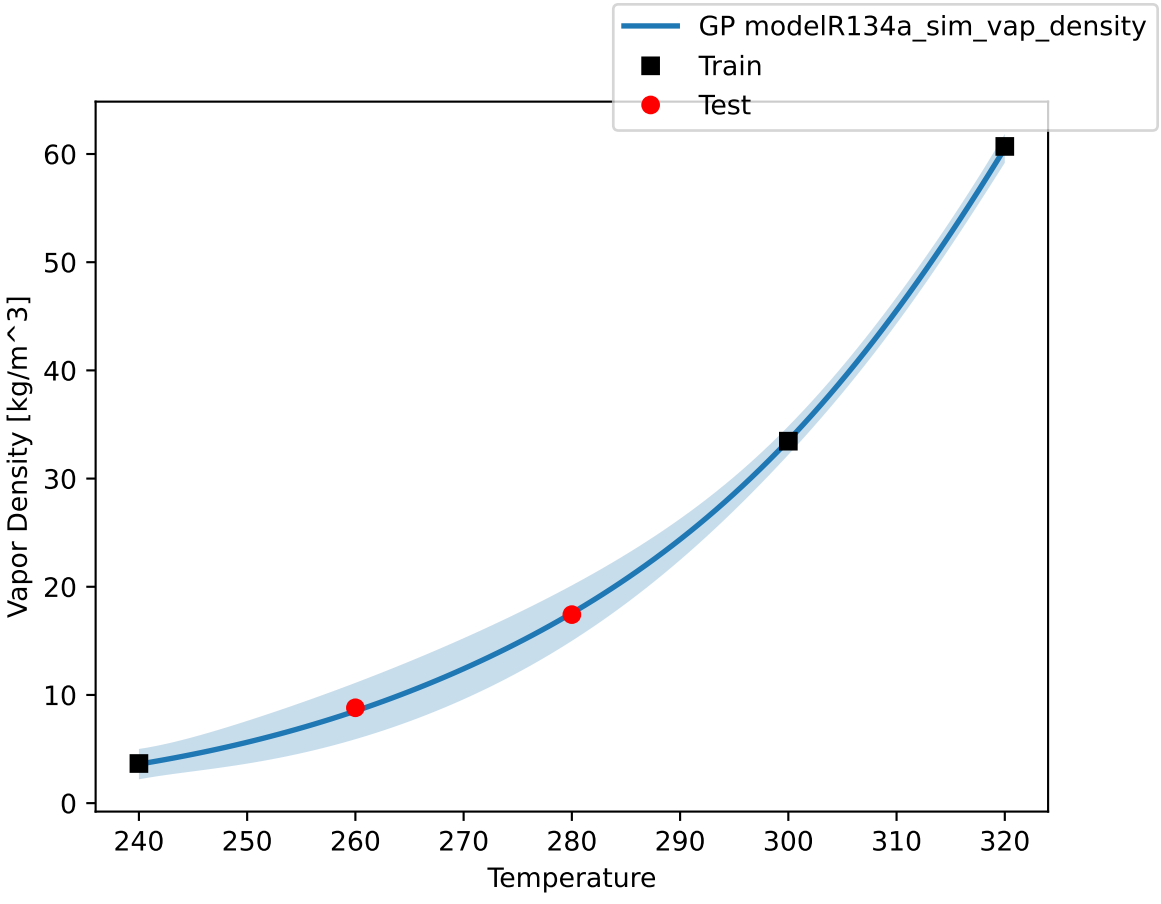

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
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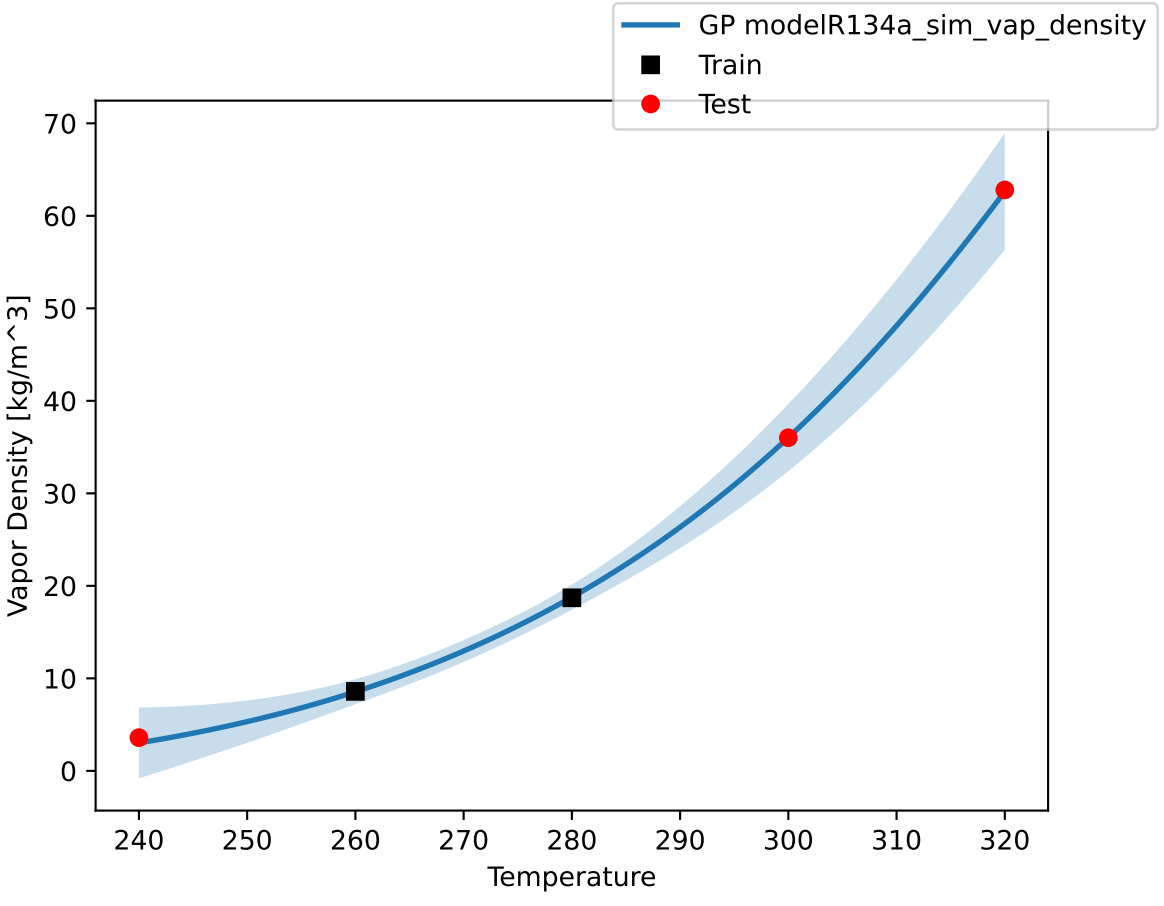
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
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250
260
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300
310
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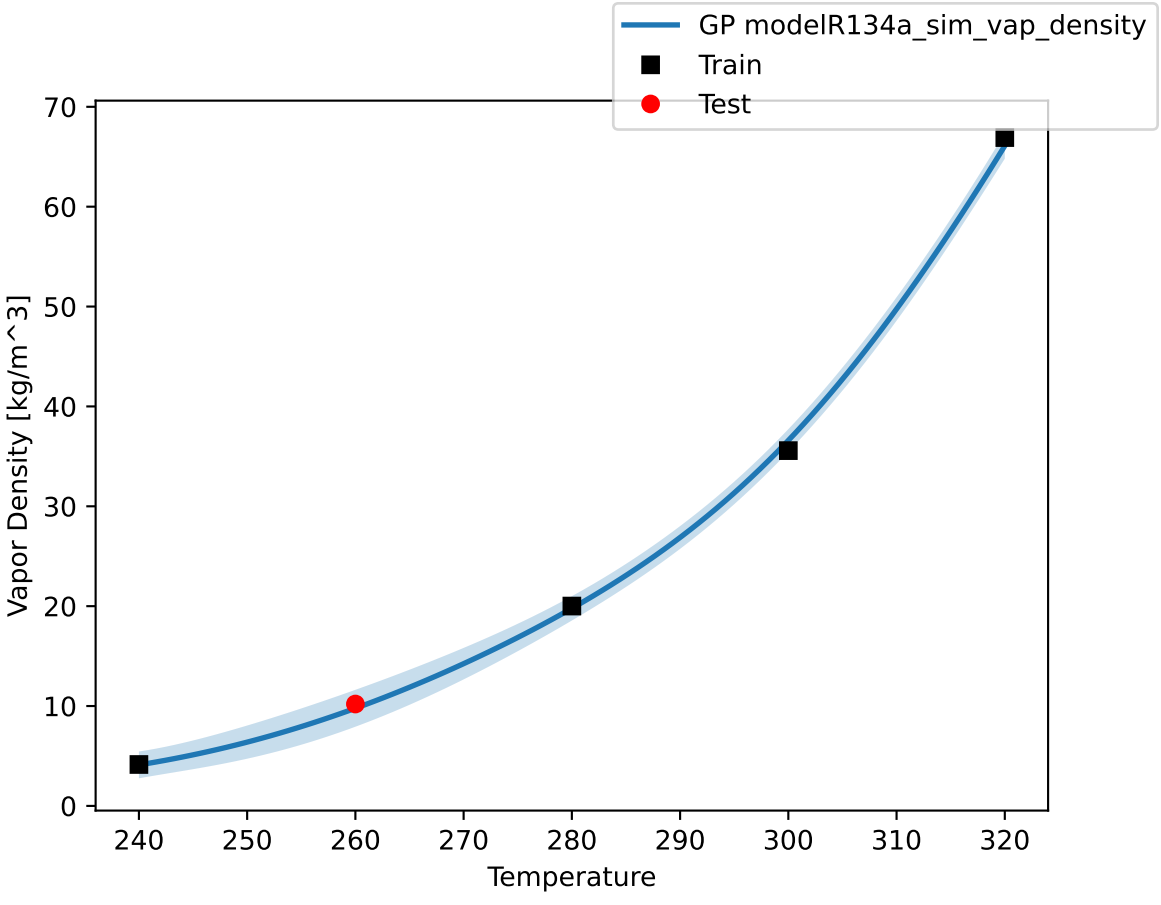
GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
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20
30
40
50
60
70
240
250
260
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310
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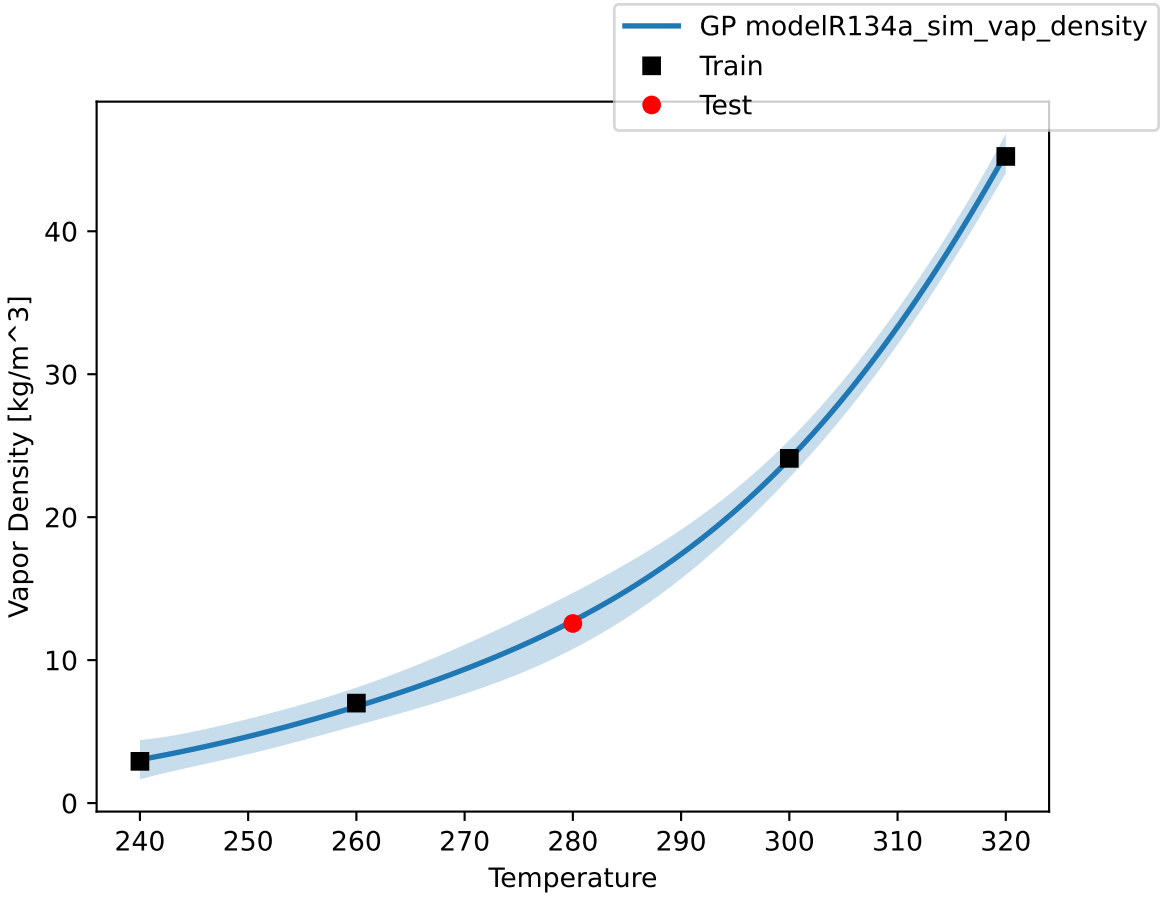
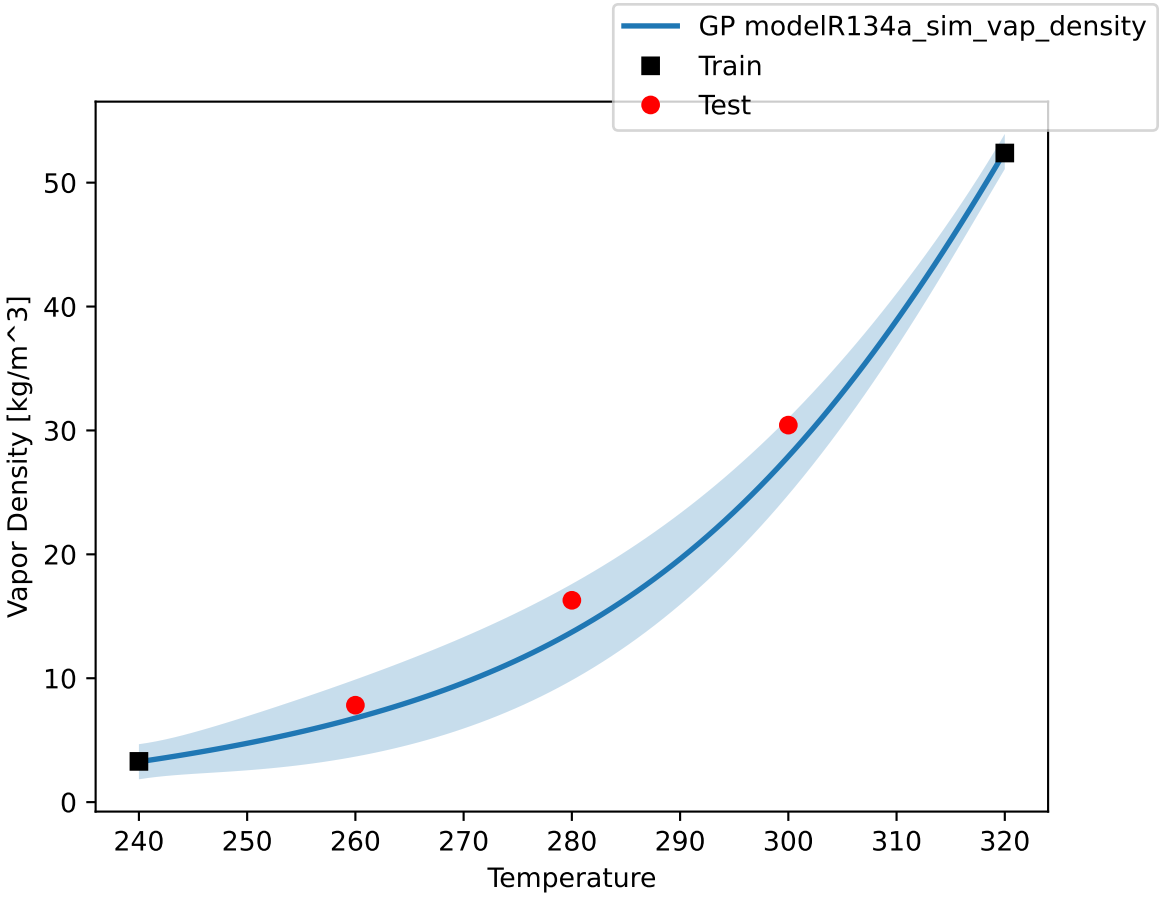

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
240
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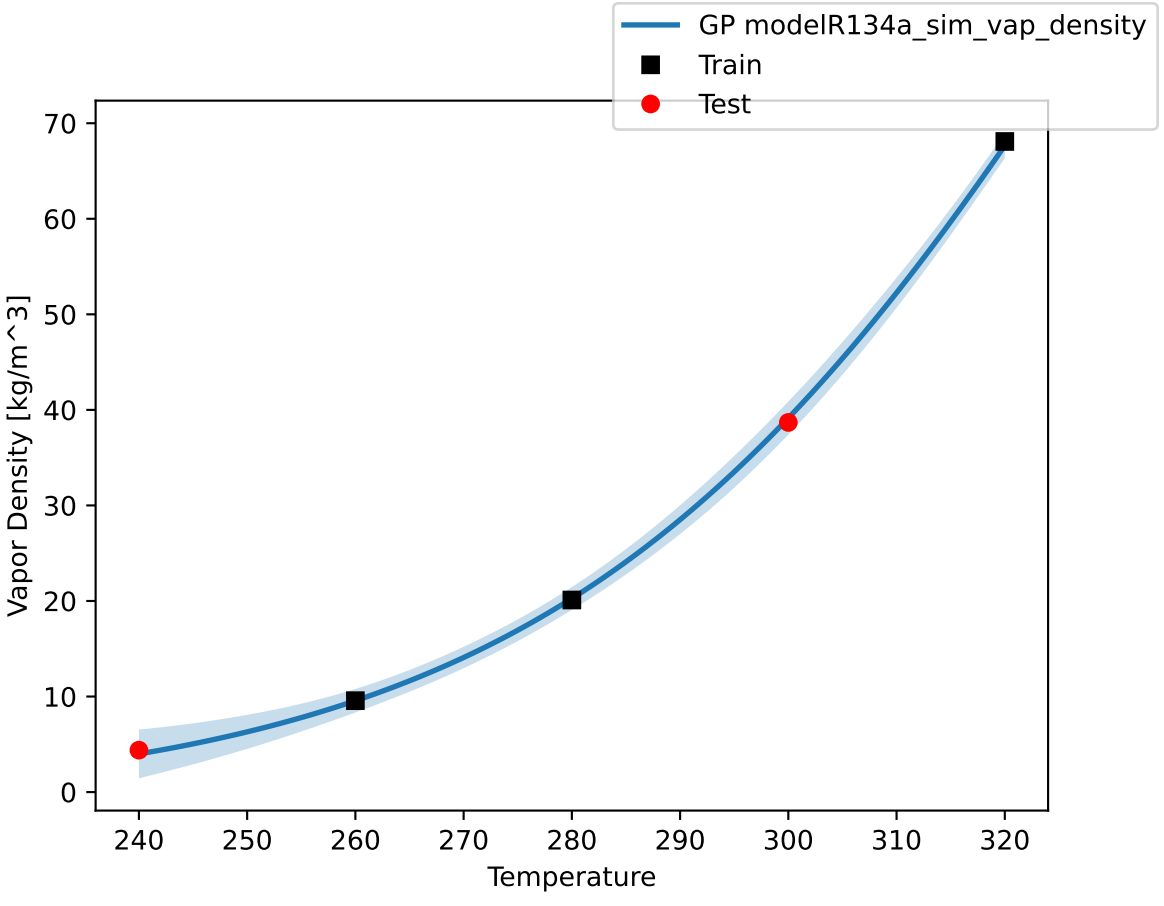
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
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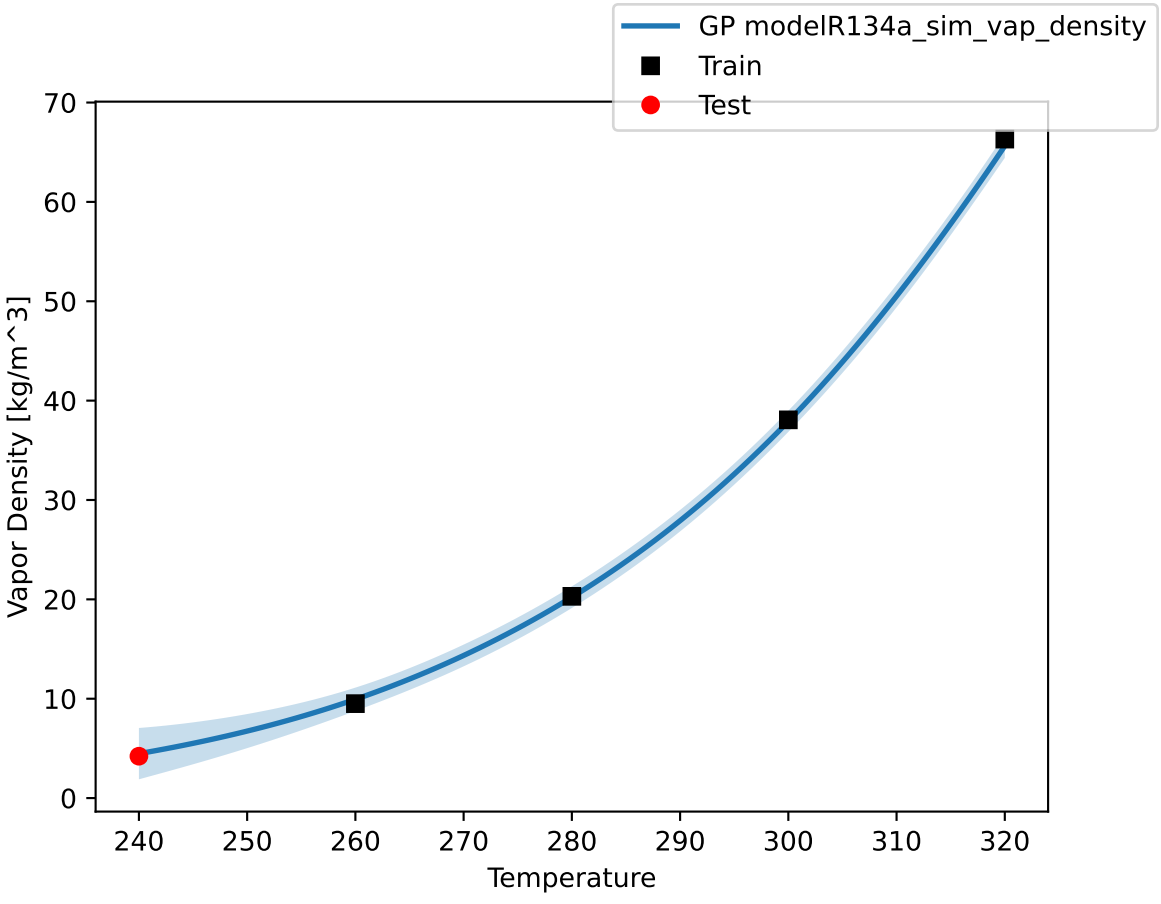
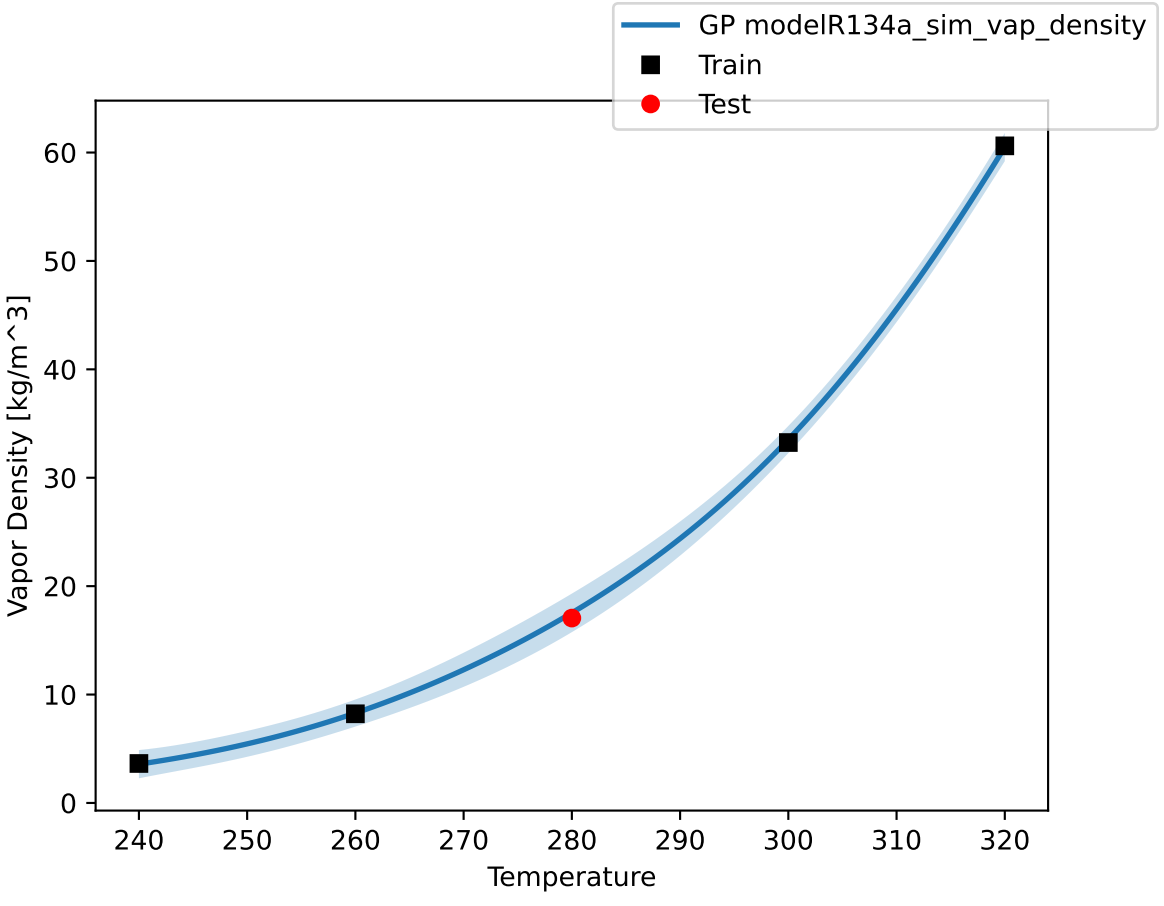
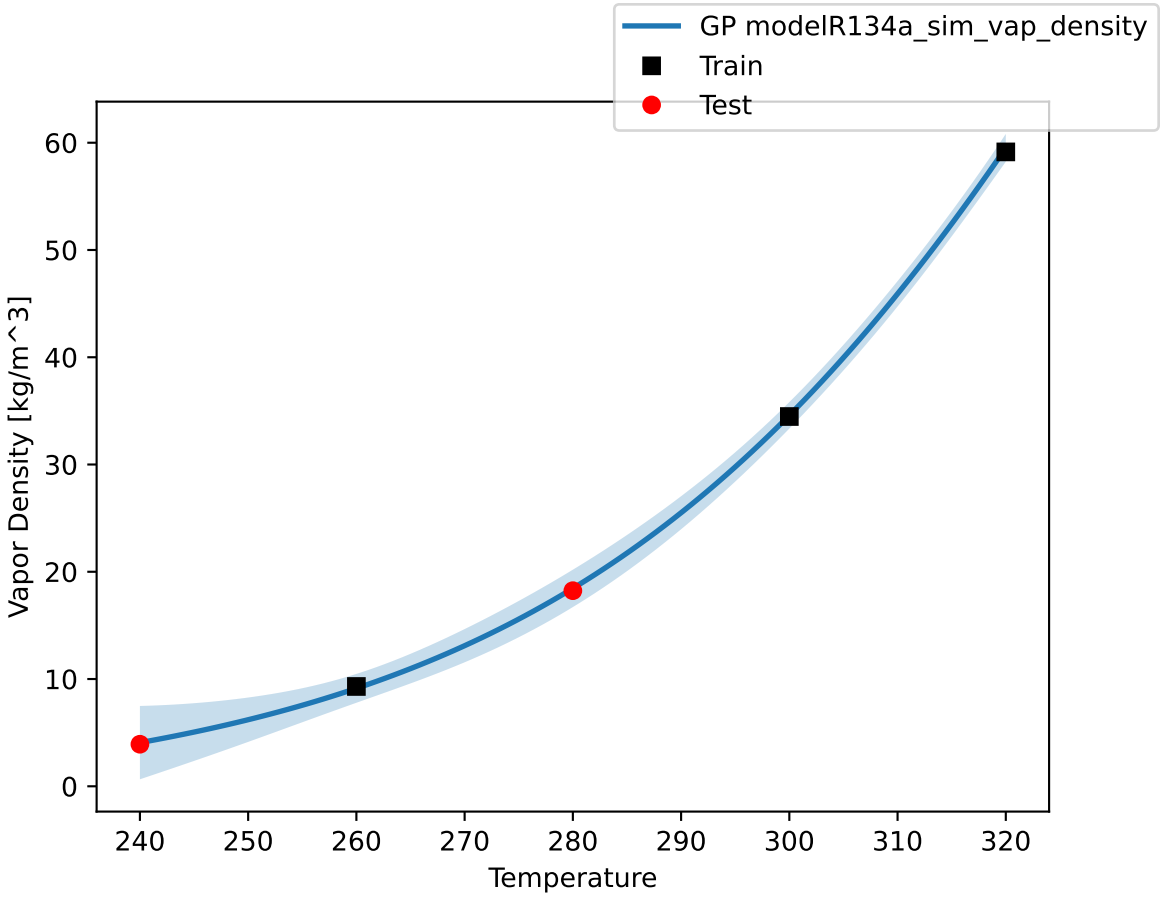
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
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270
280
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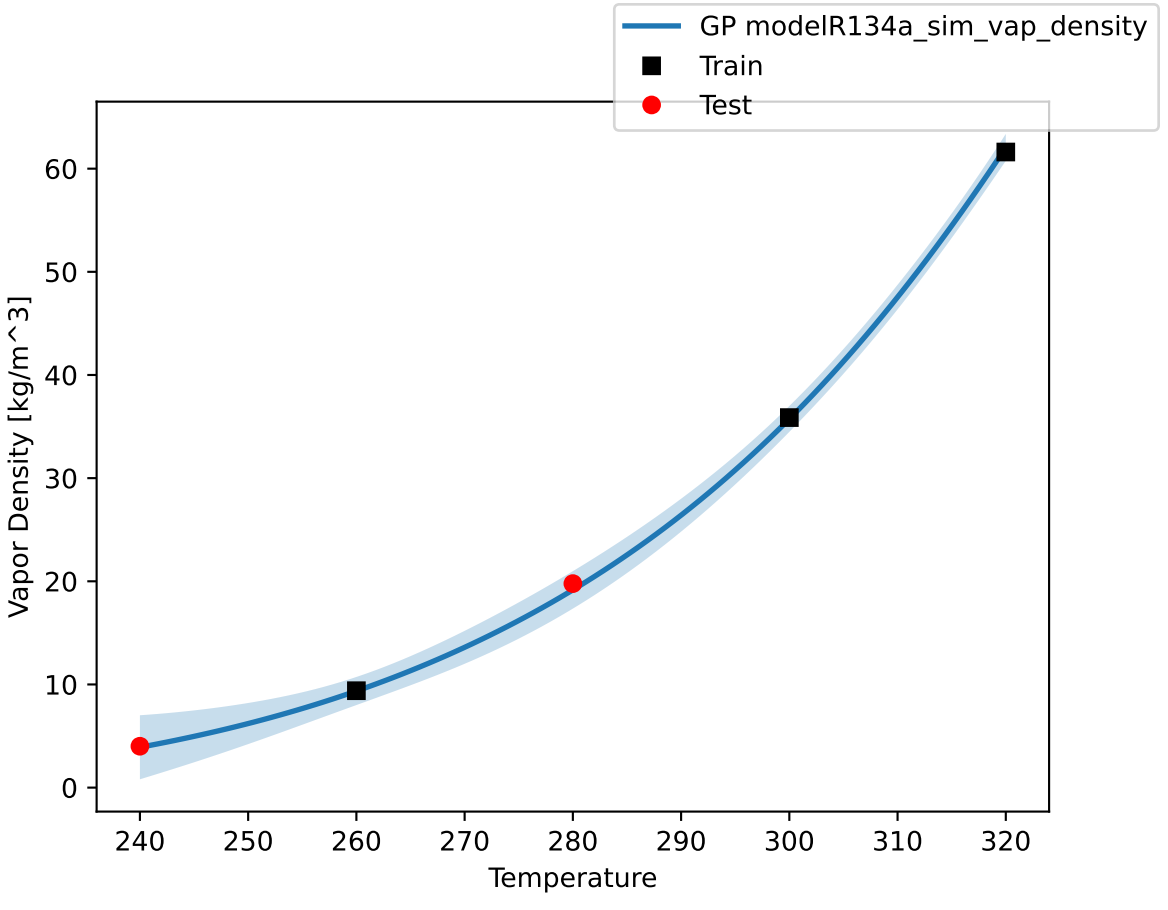
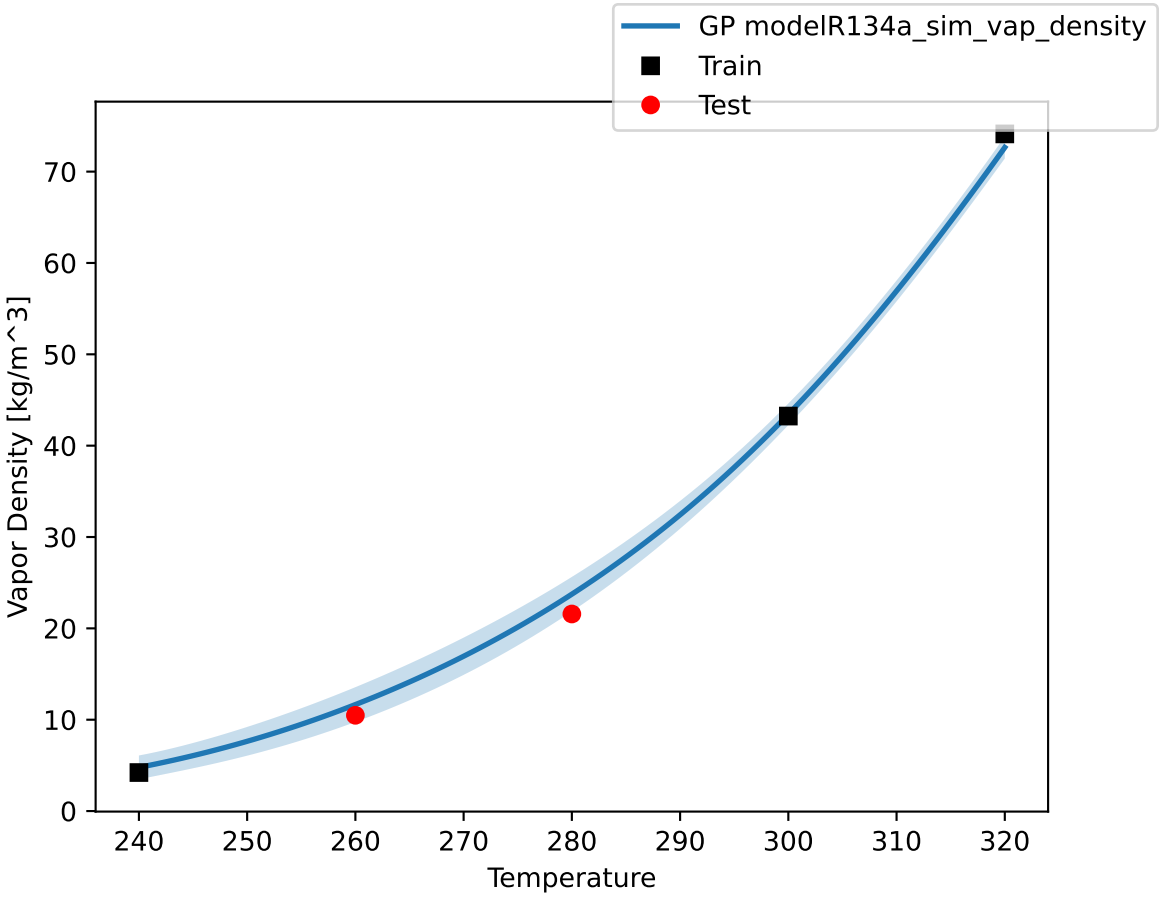
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
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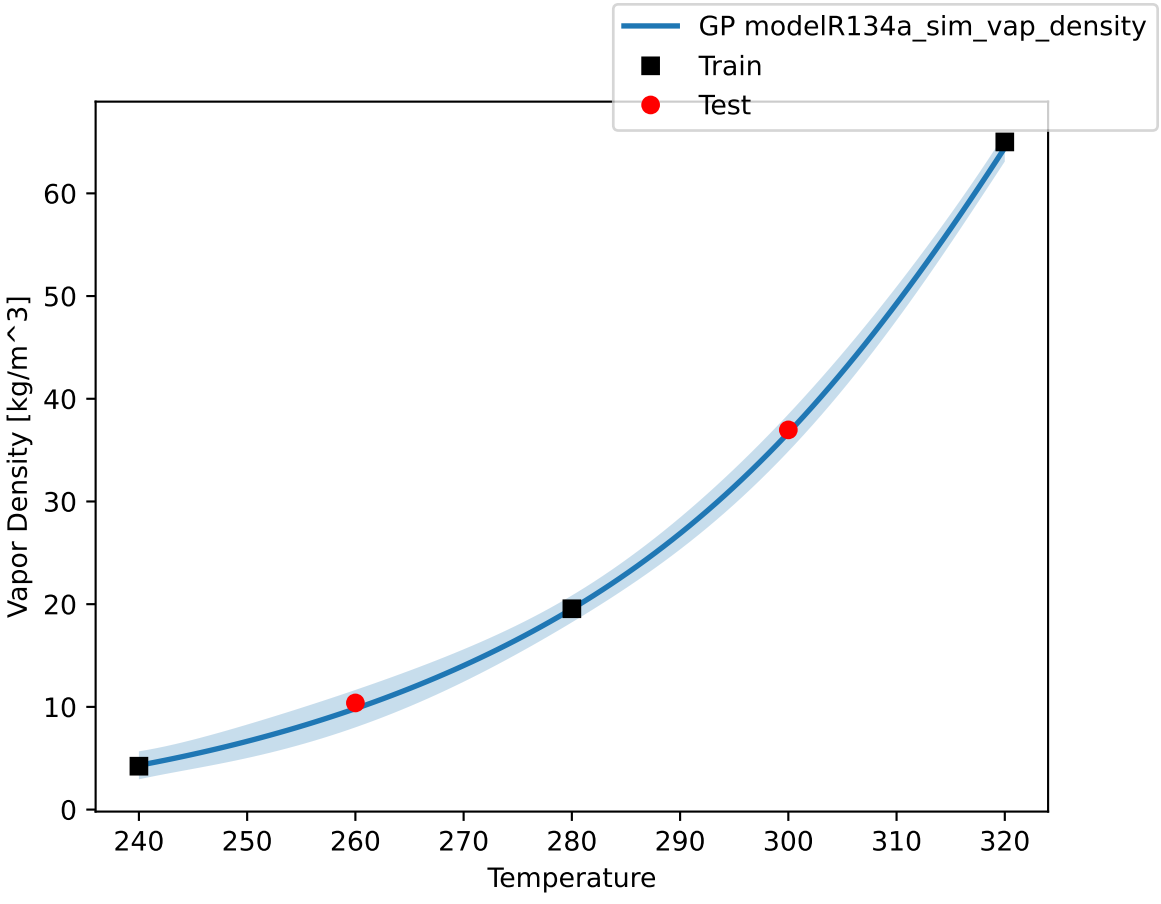
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Vapor Density [kg/m^3]
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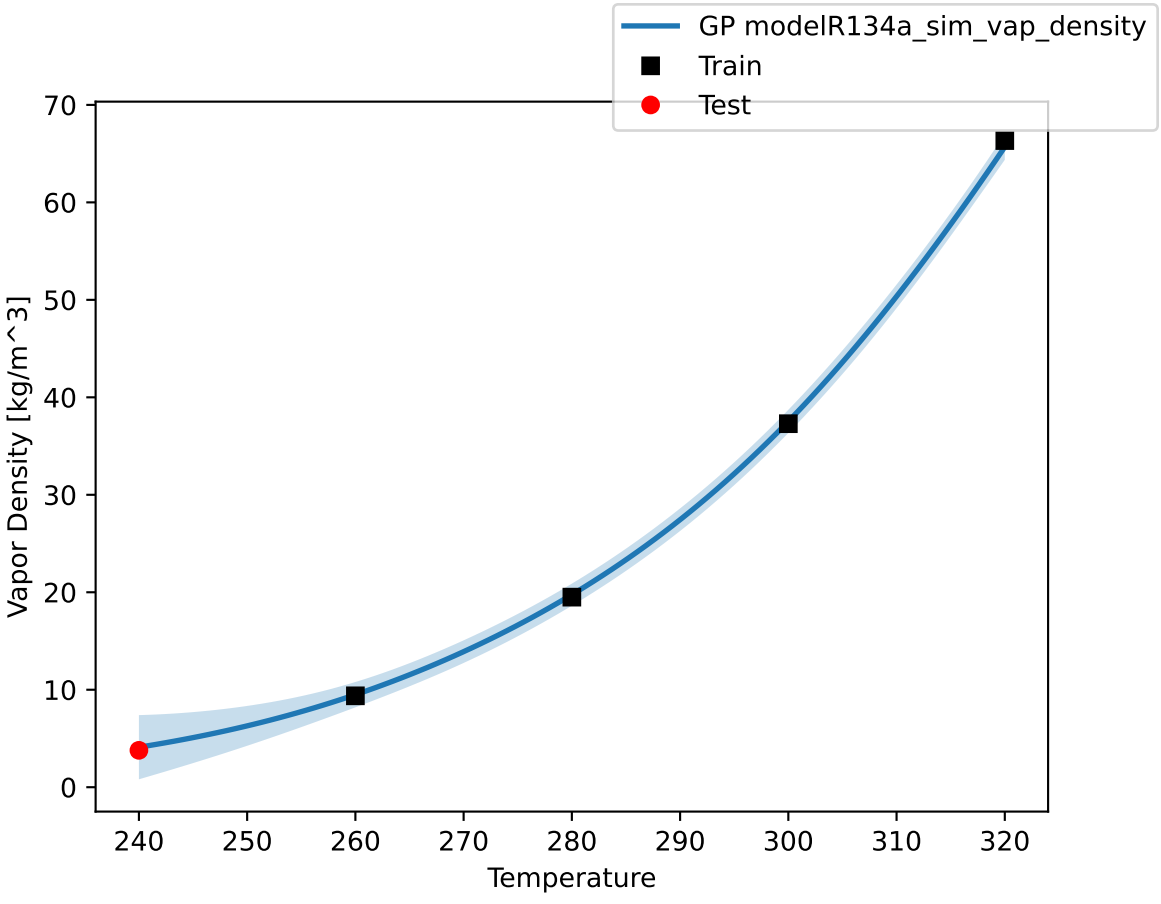
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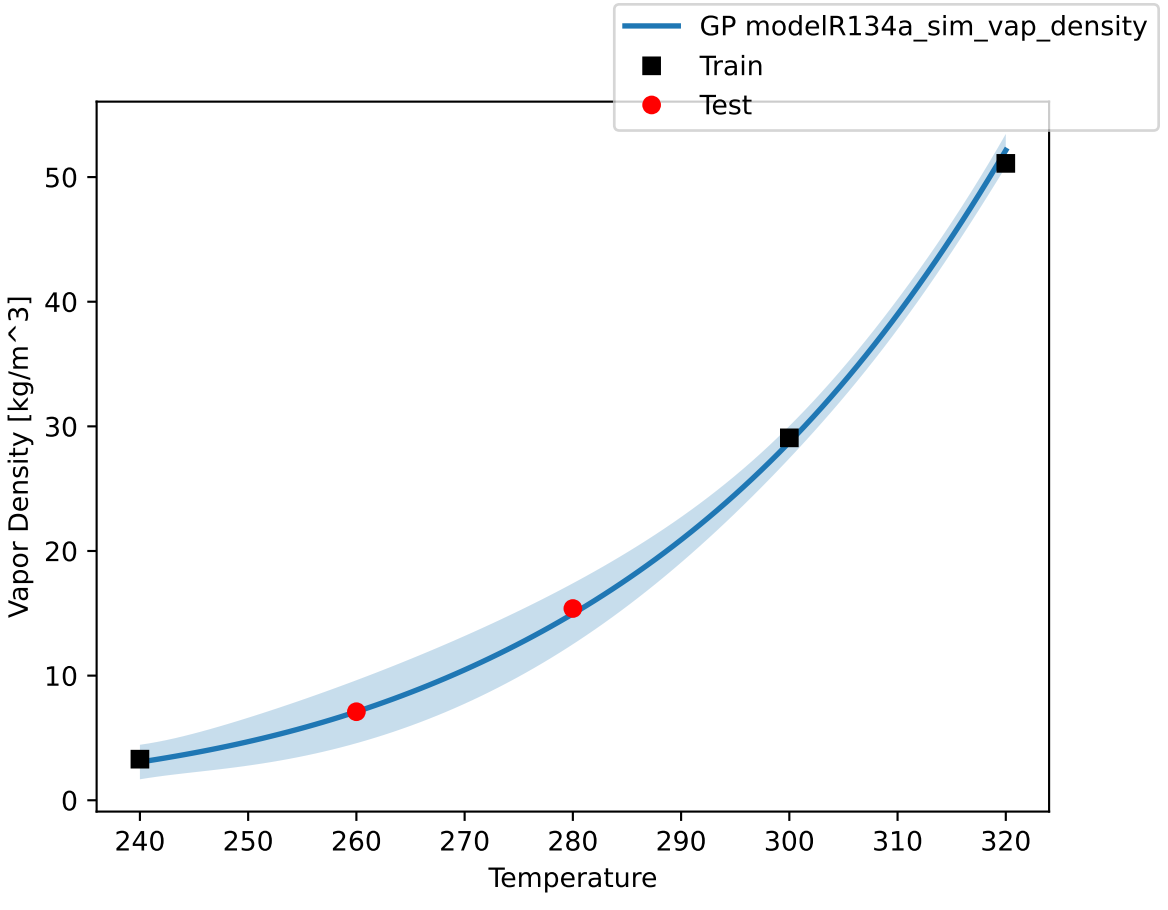
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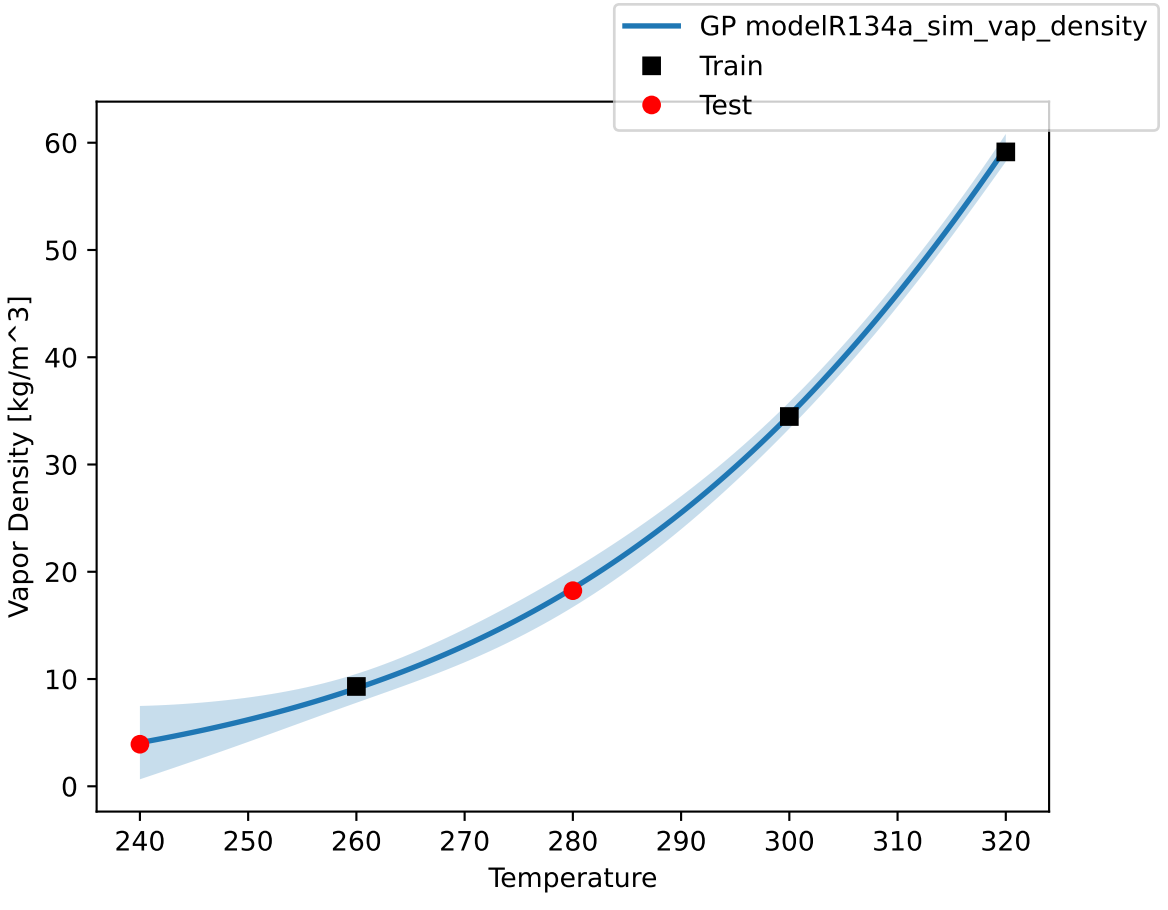
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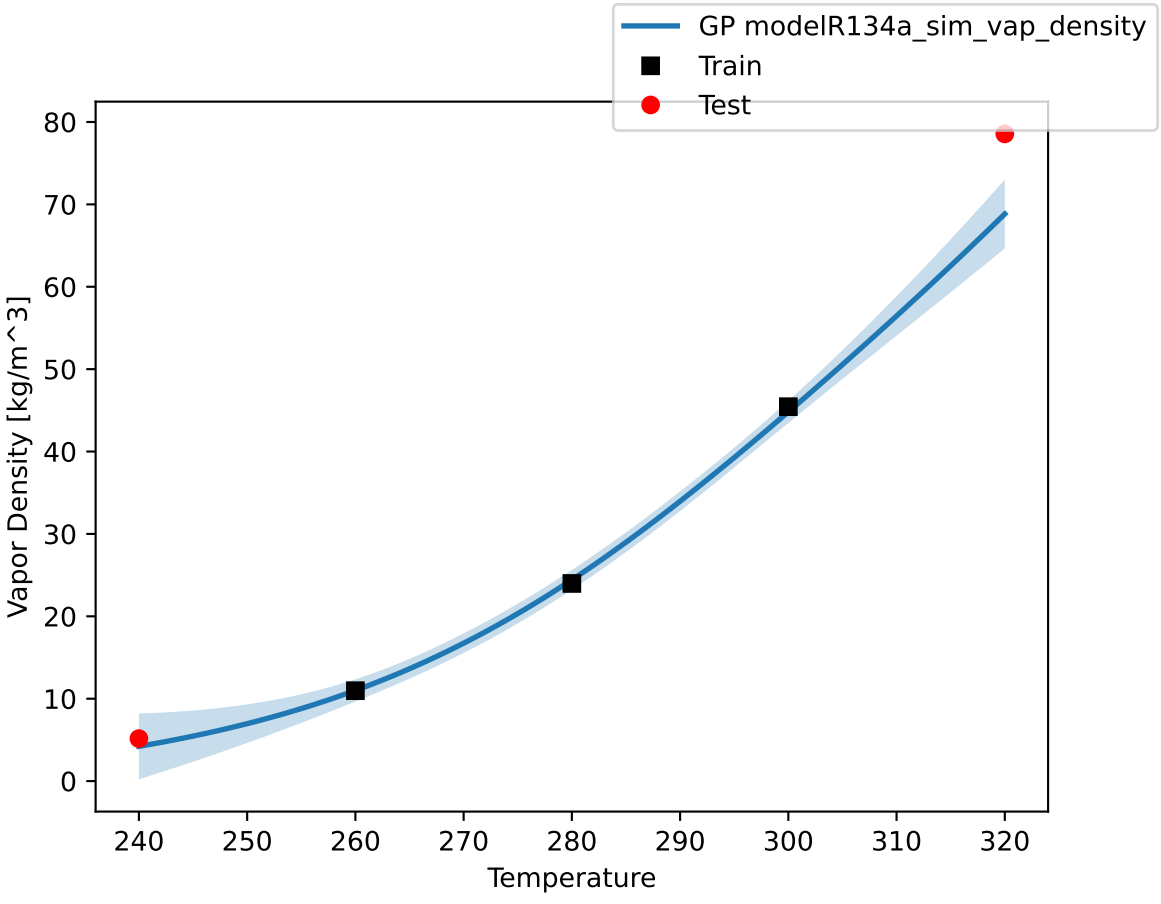
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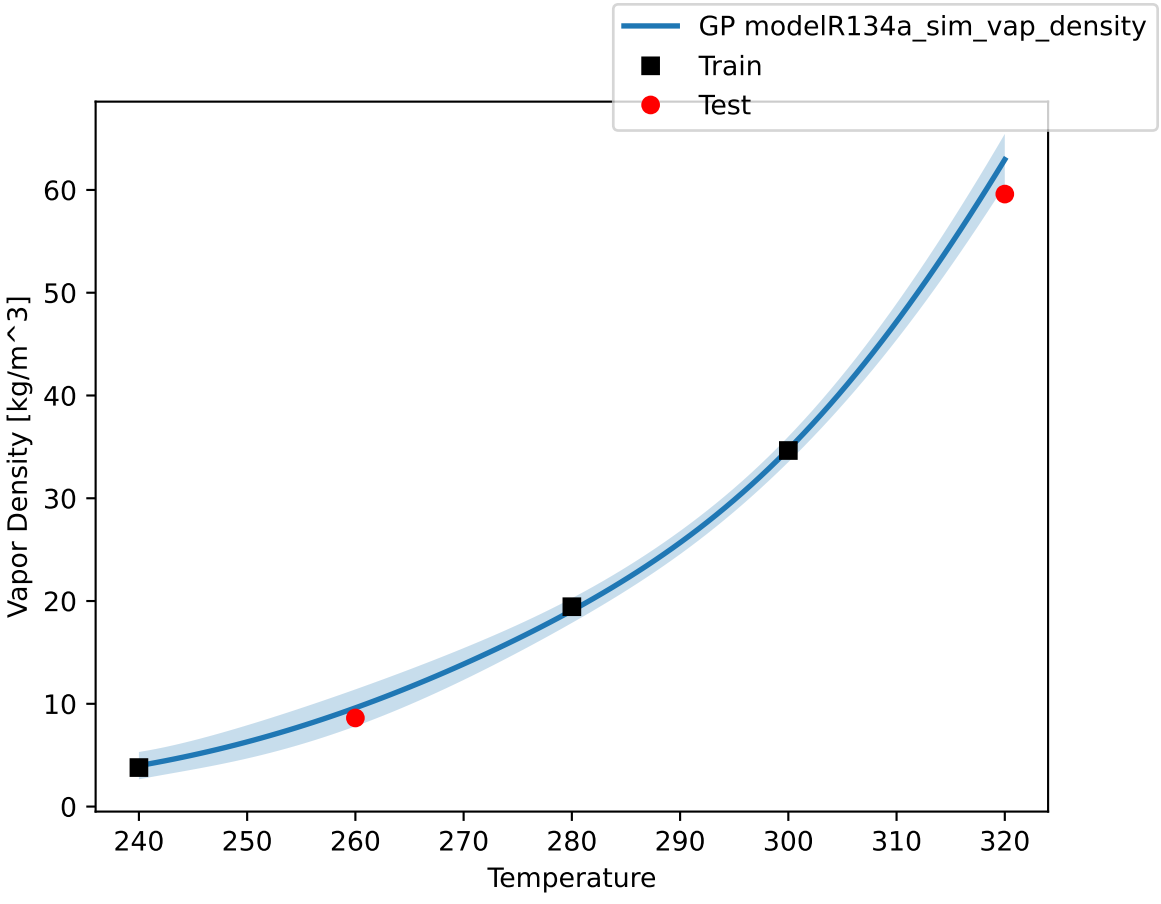
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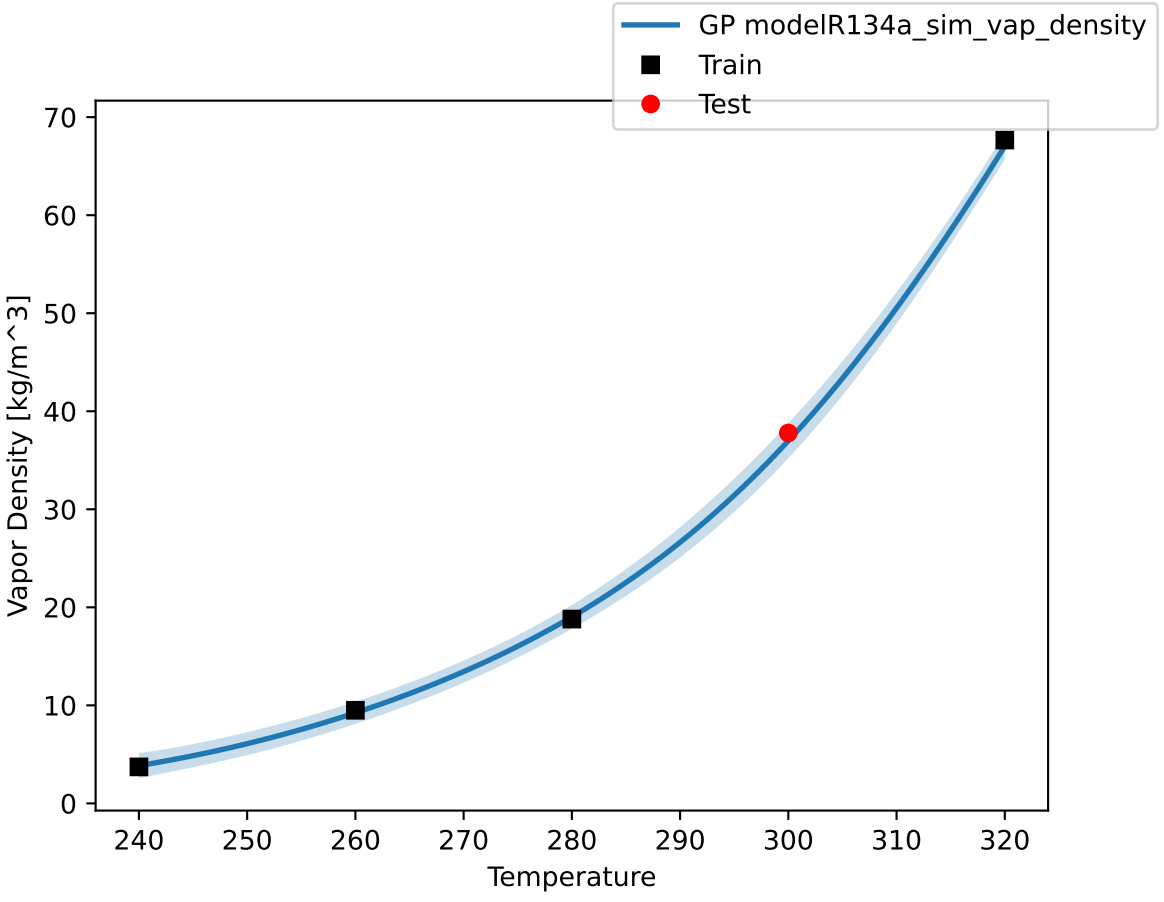
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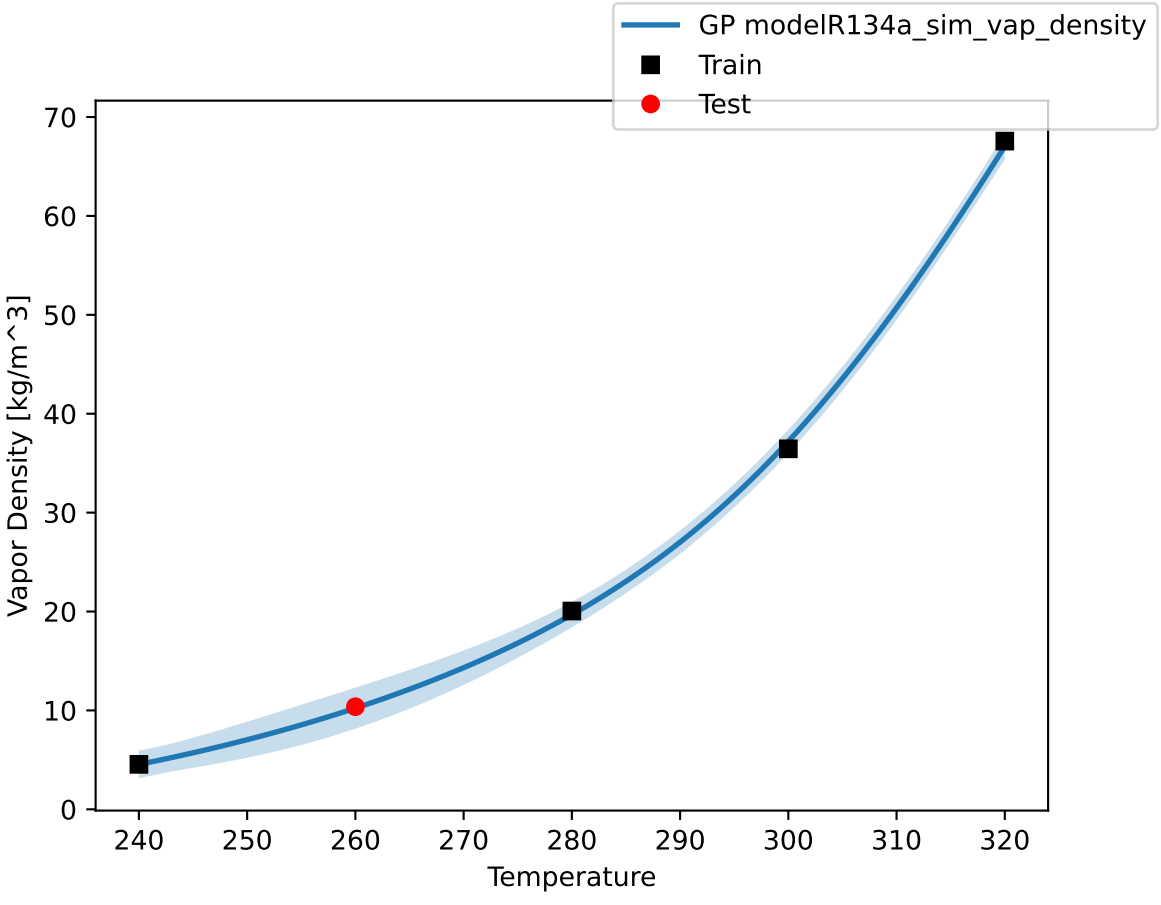
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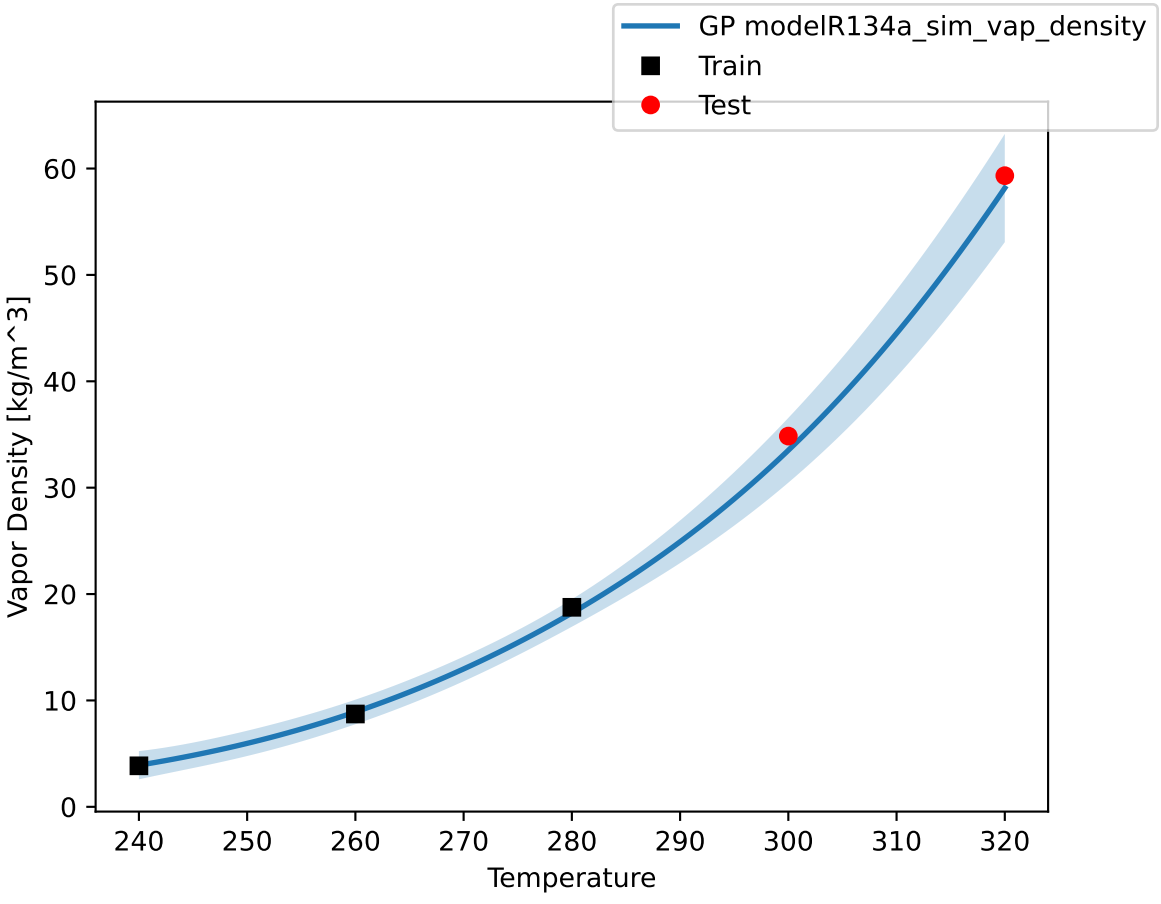
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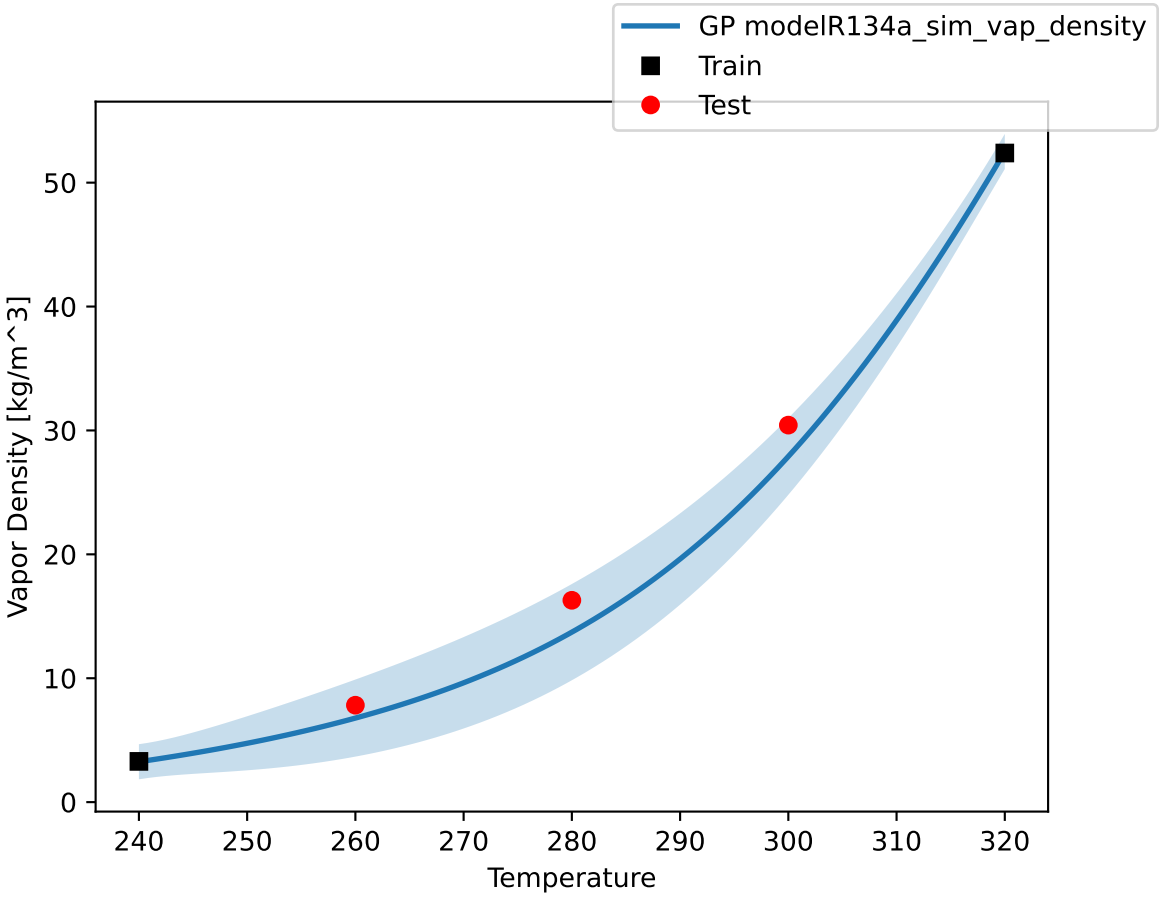
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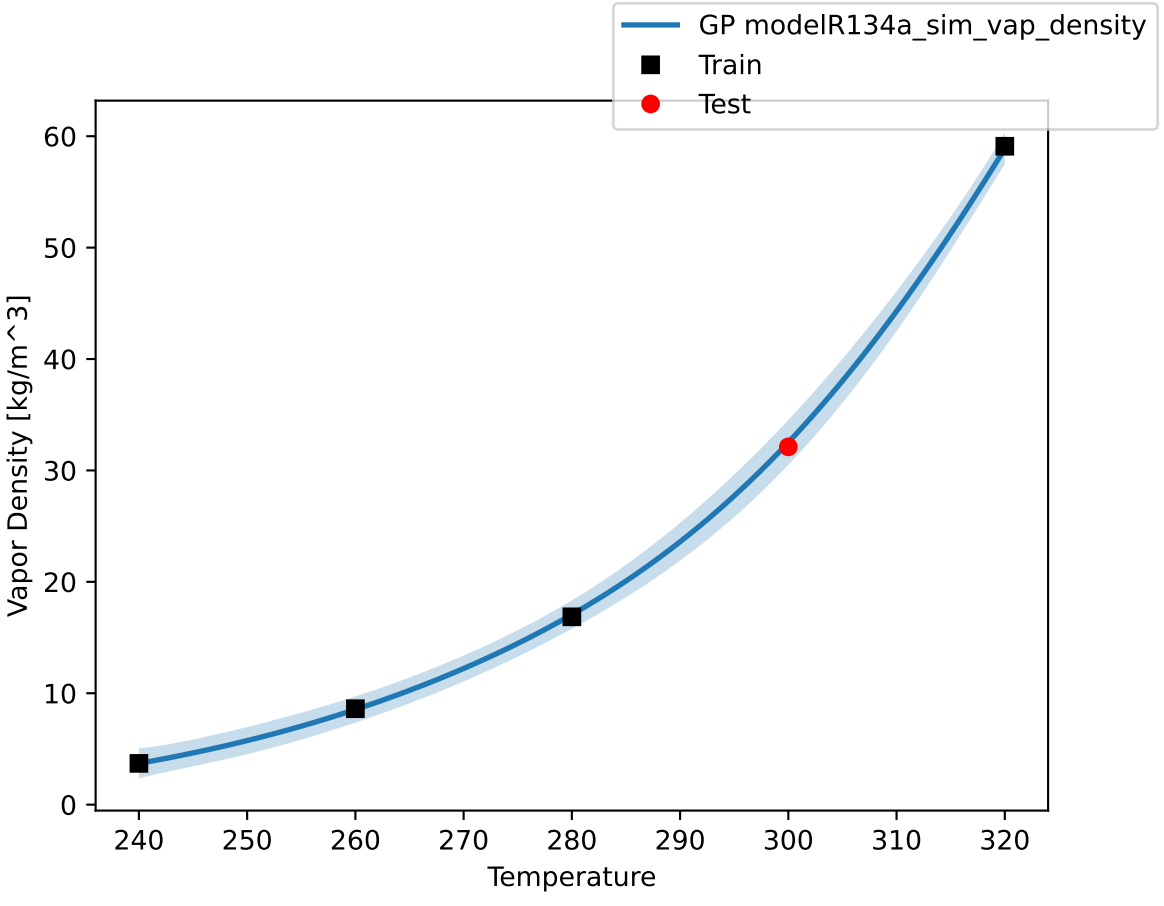
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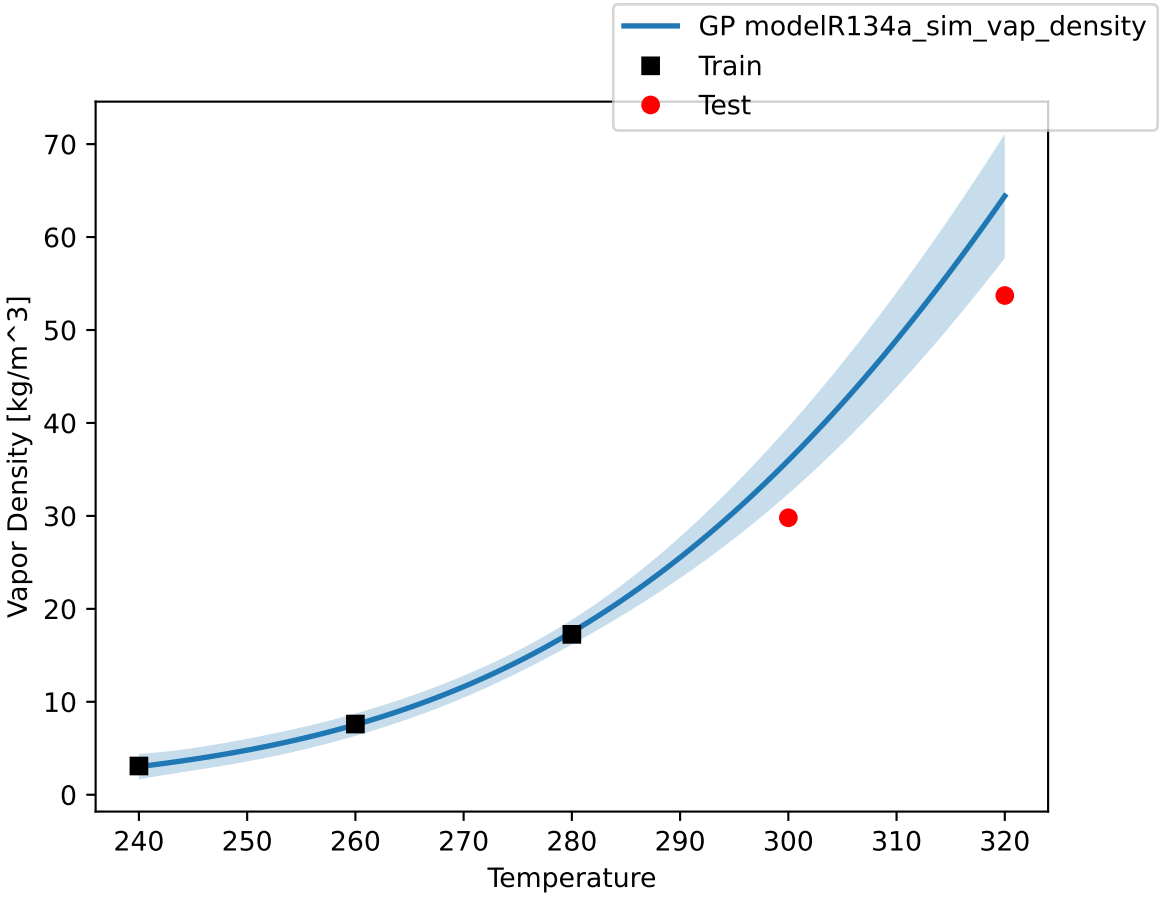
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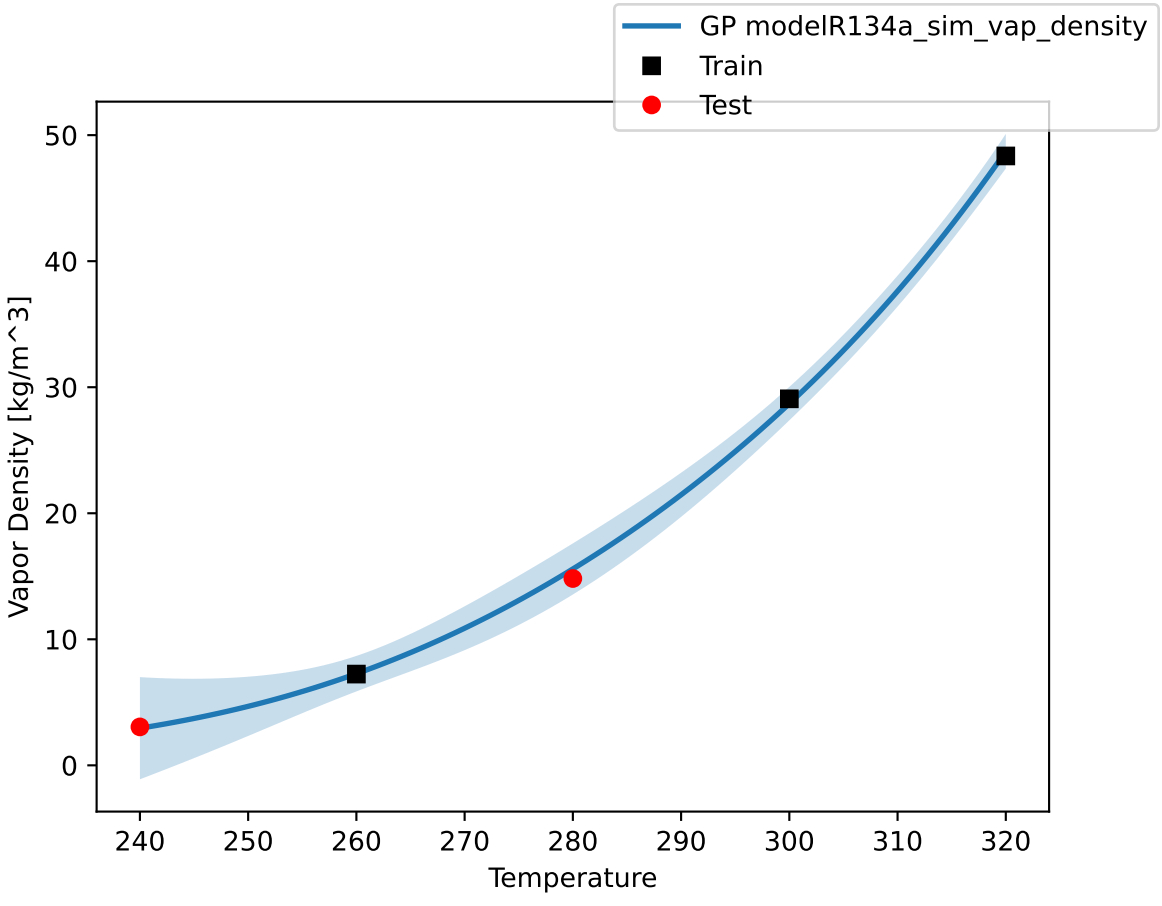
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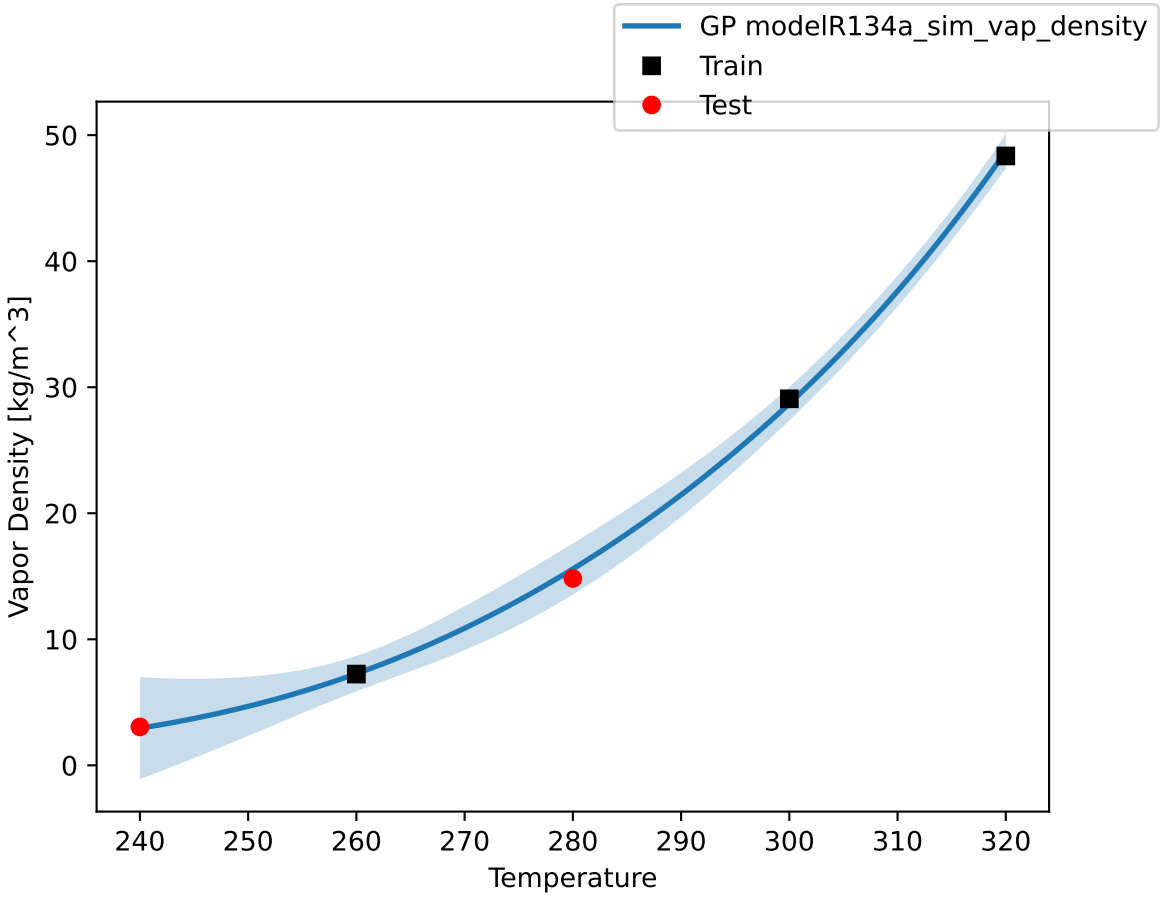
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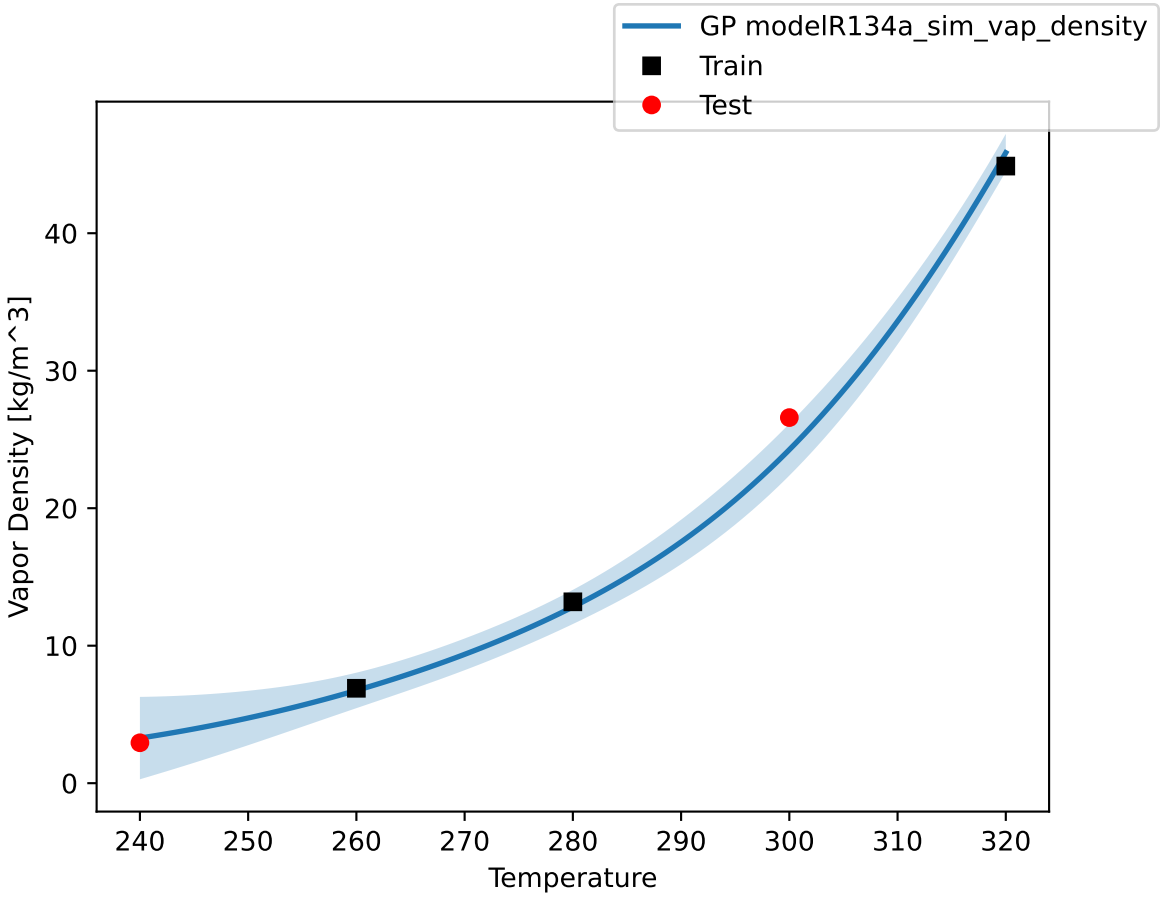
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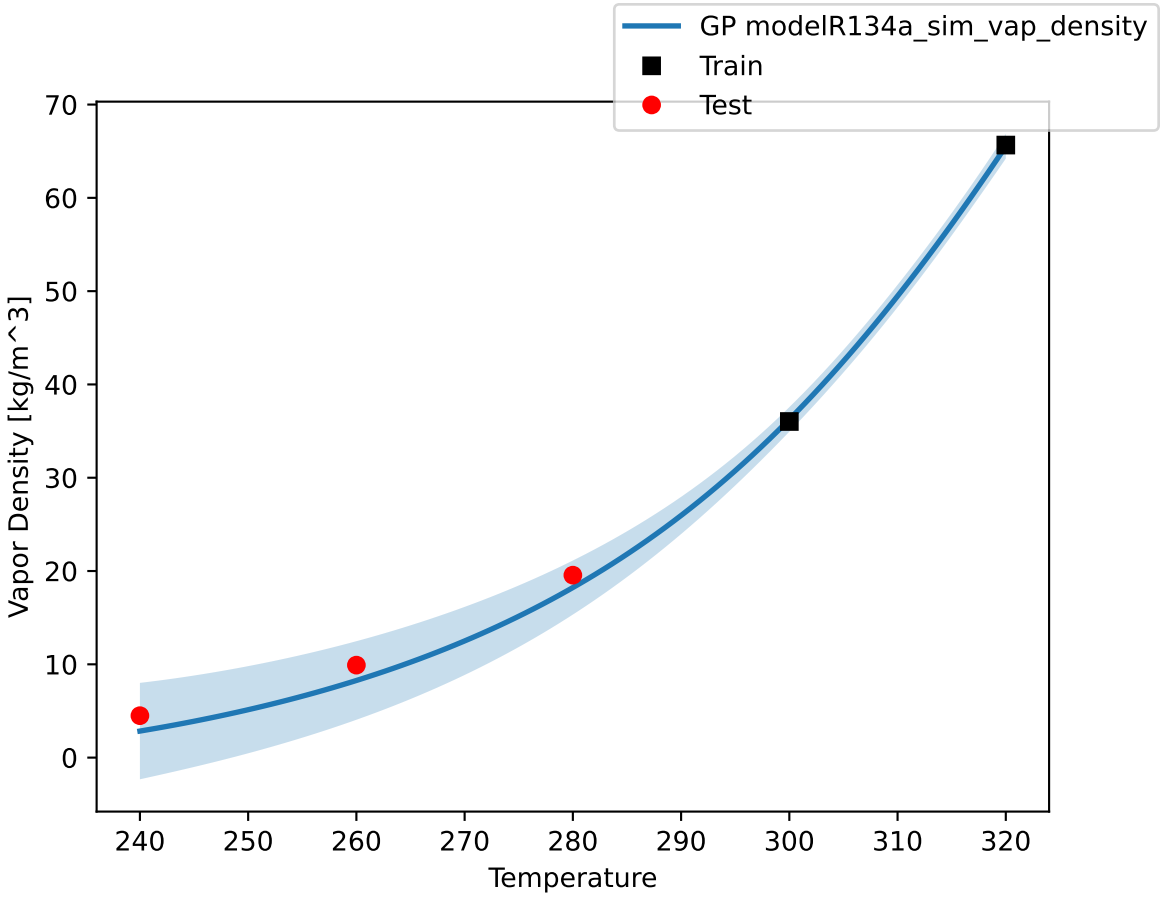
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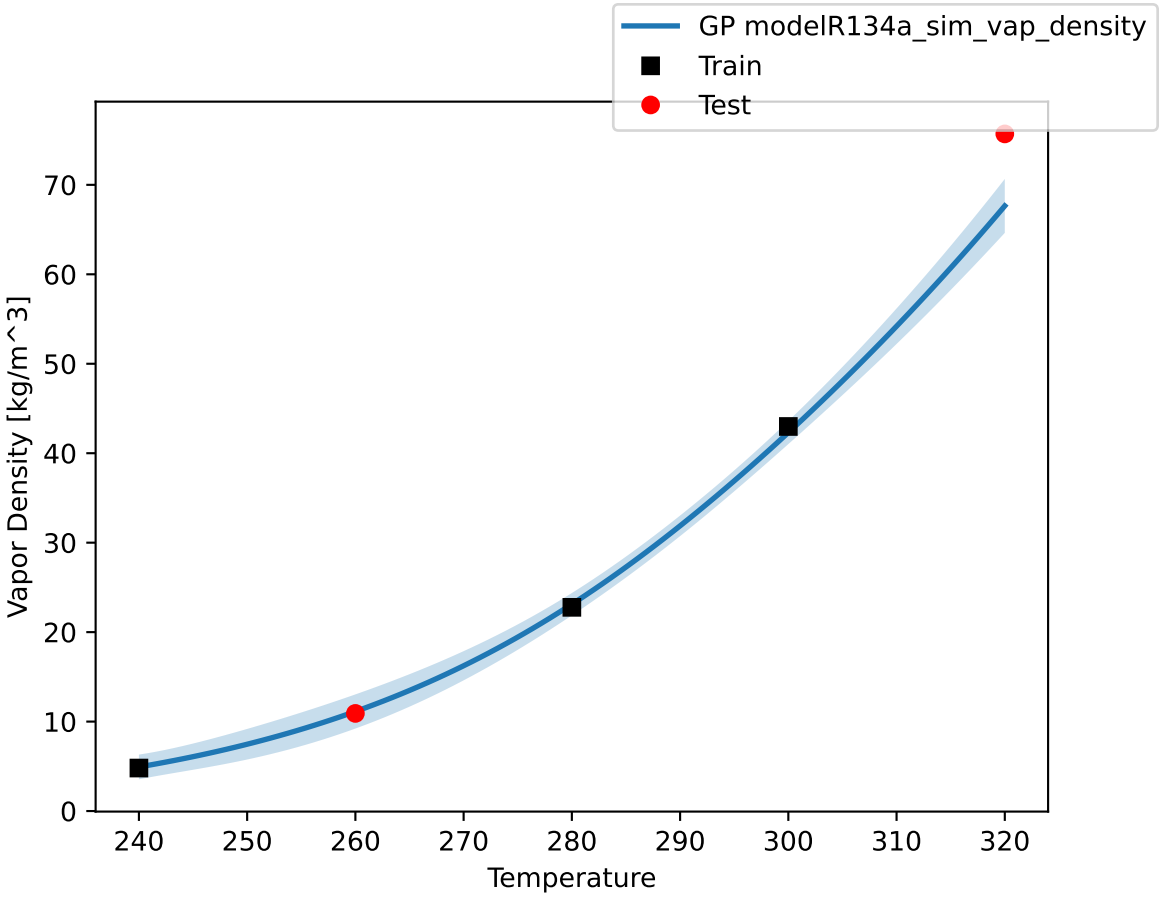
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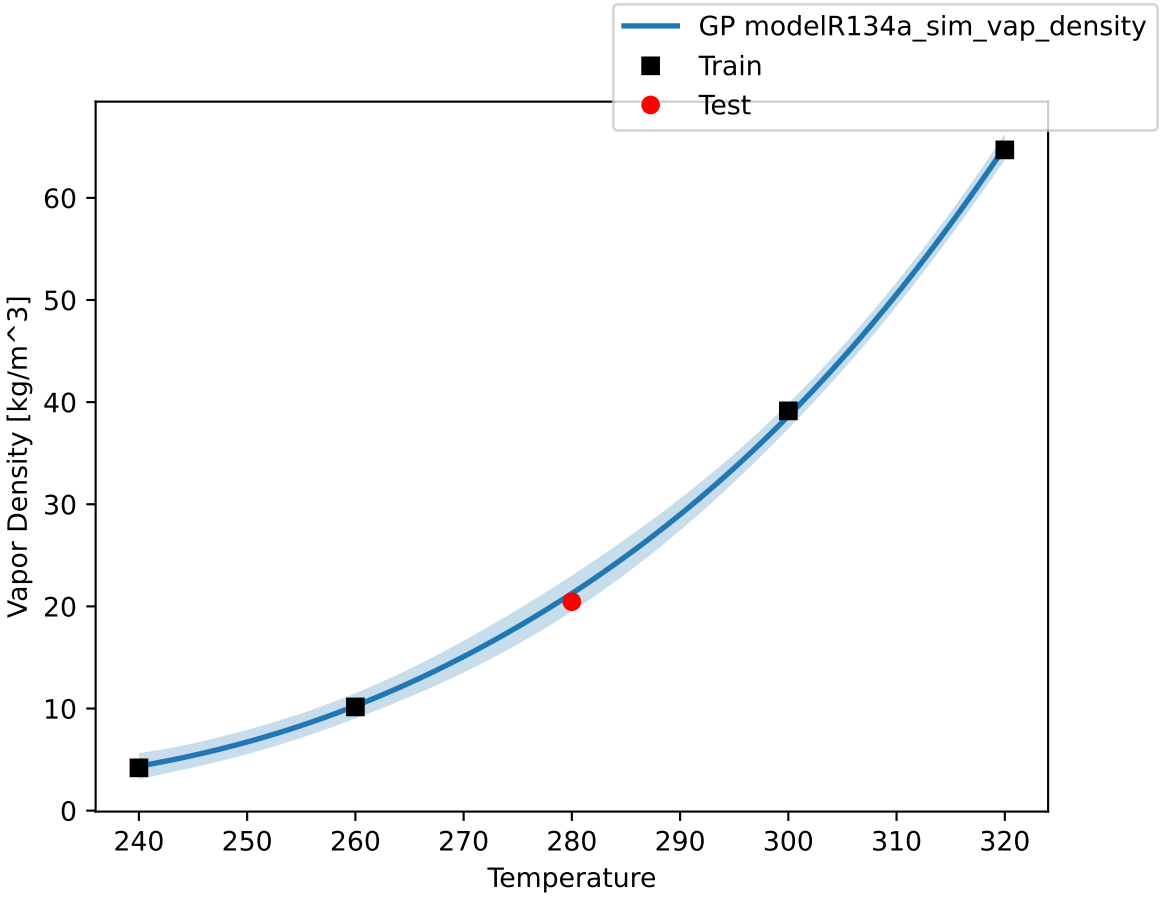
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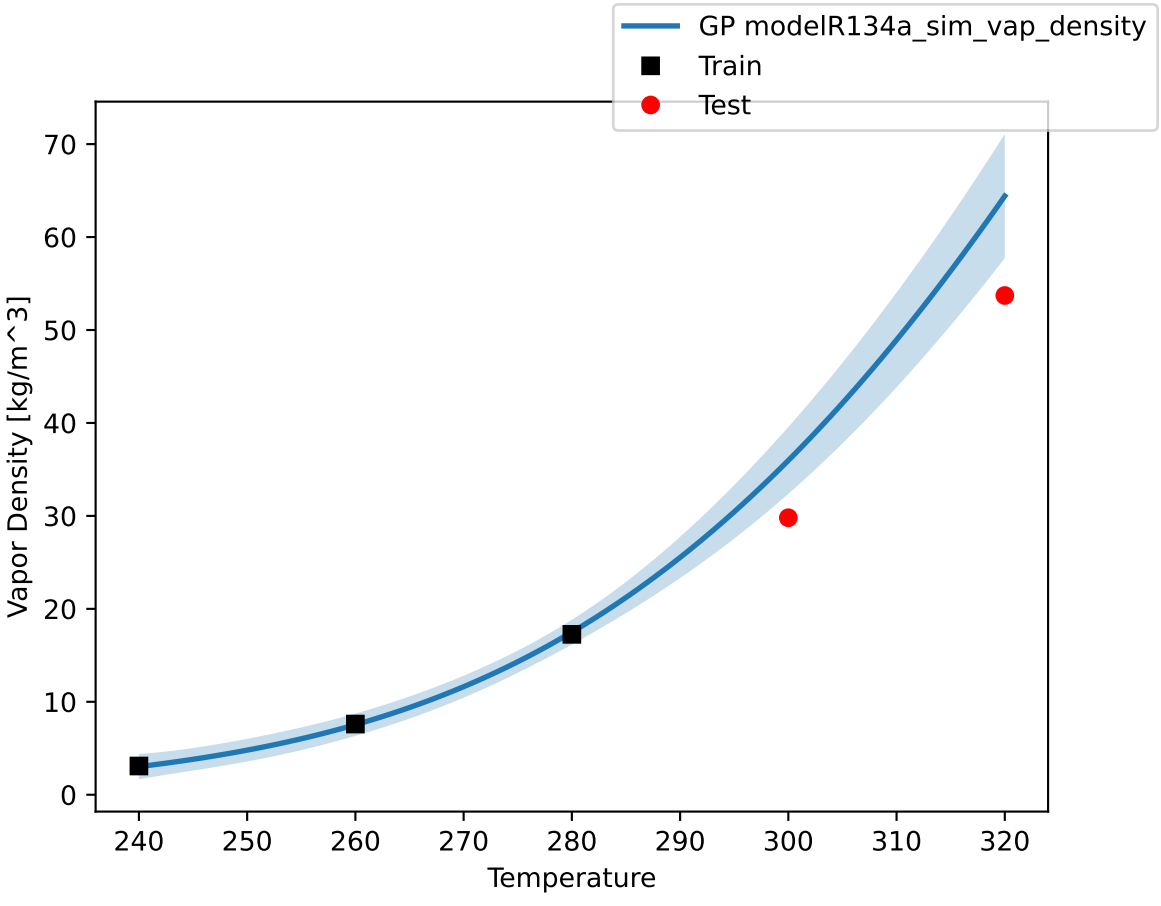
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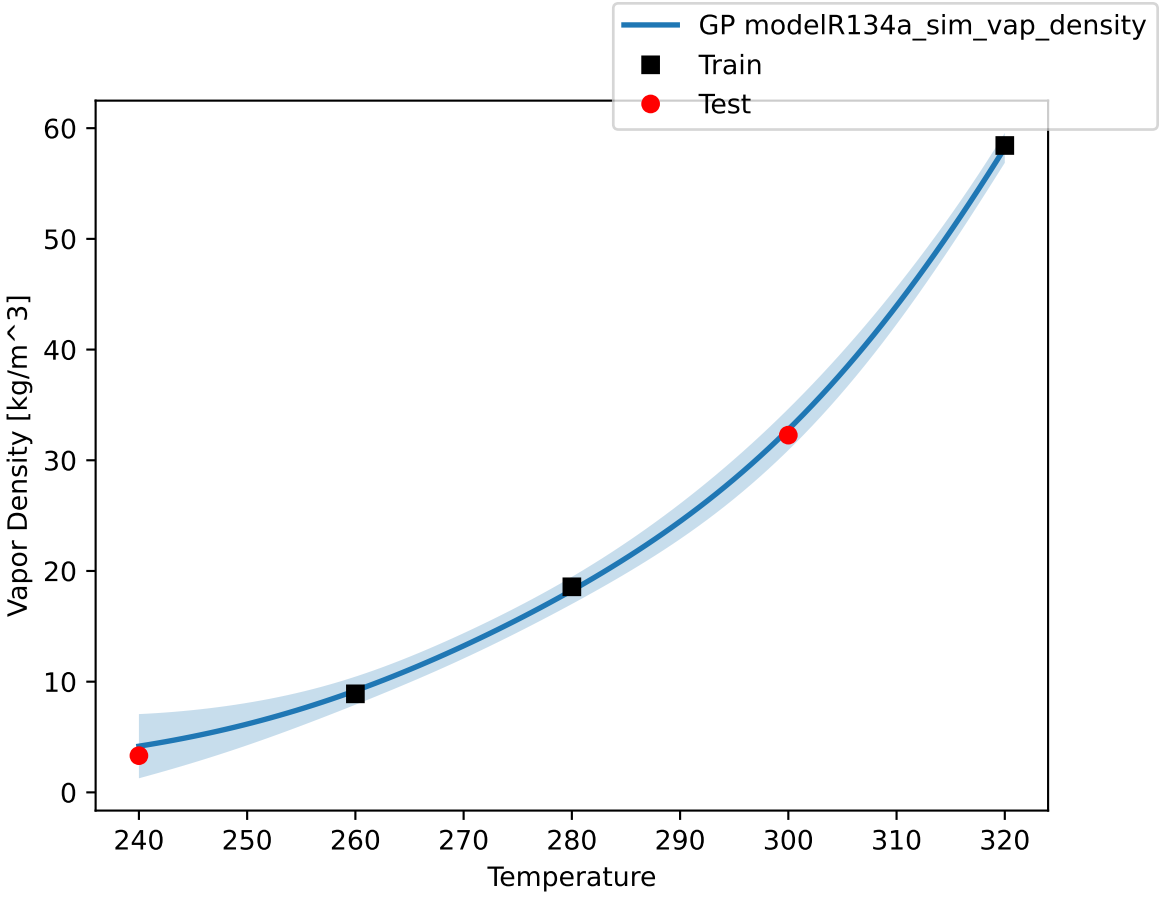
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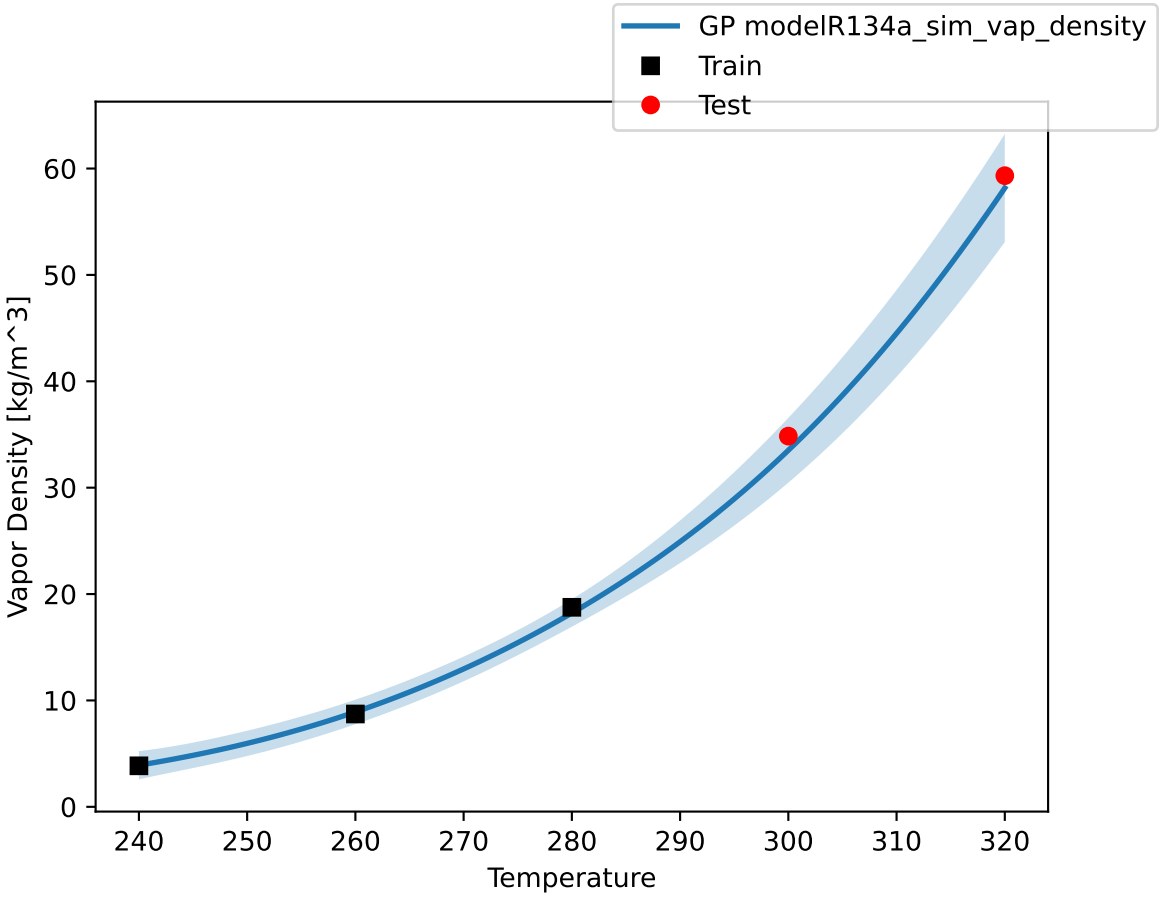
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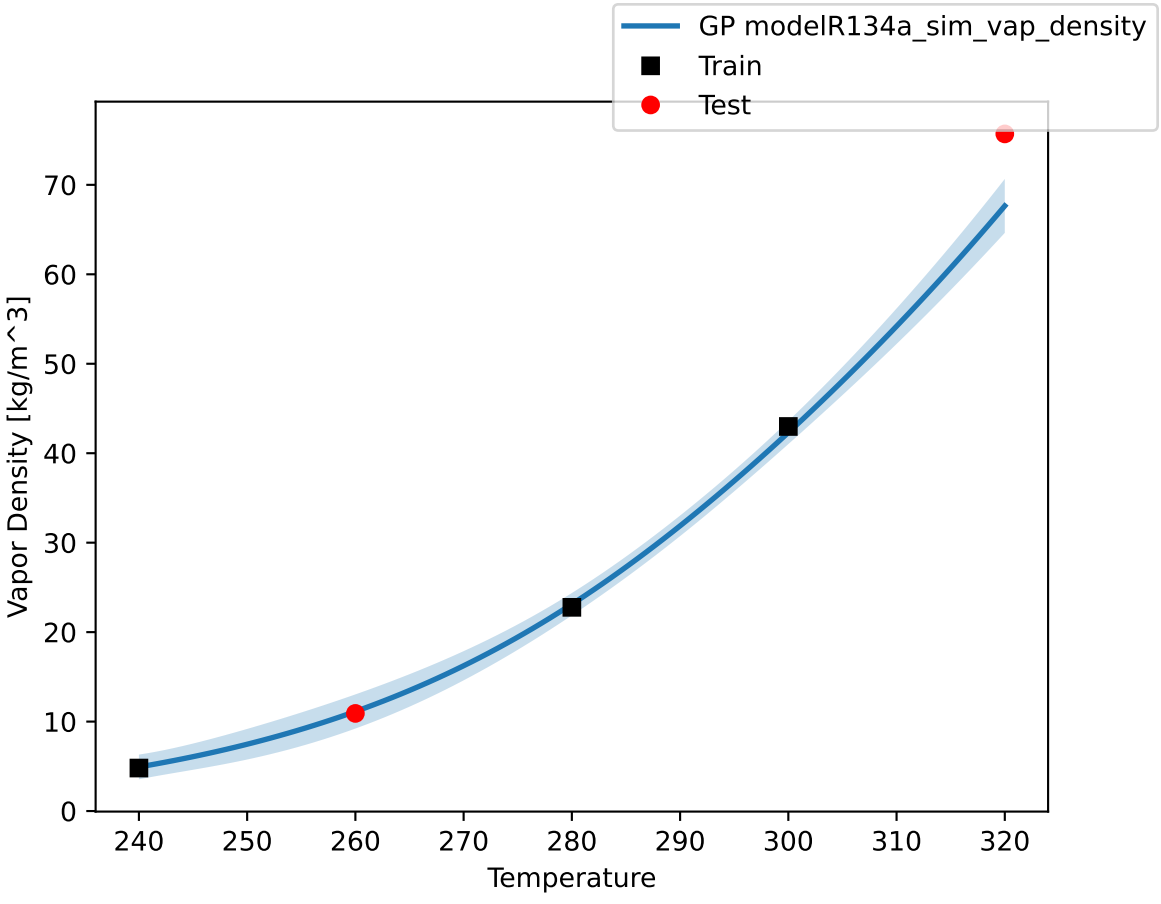
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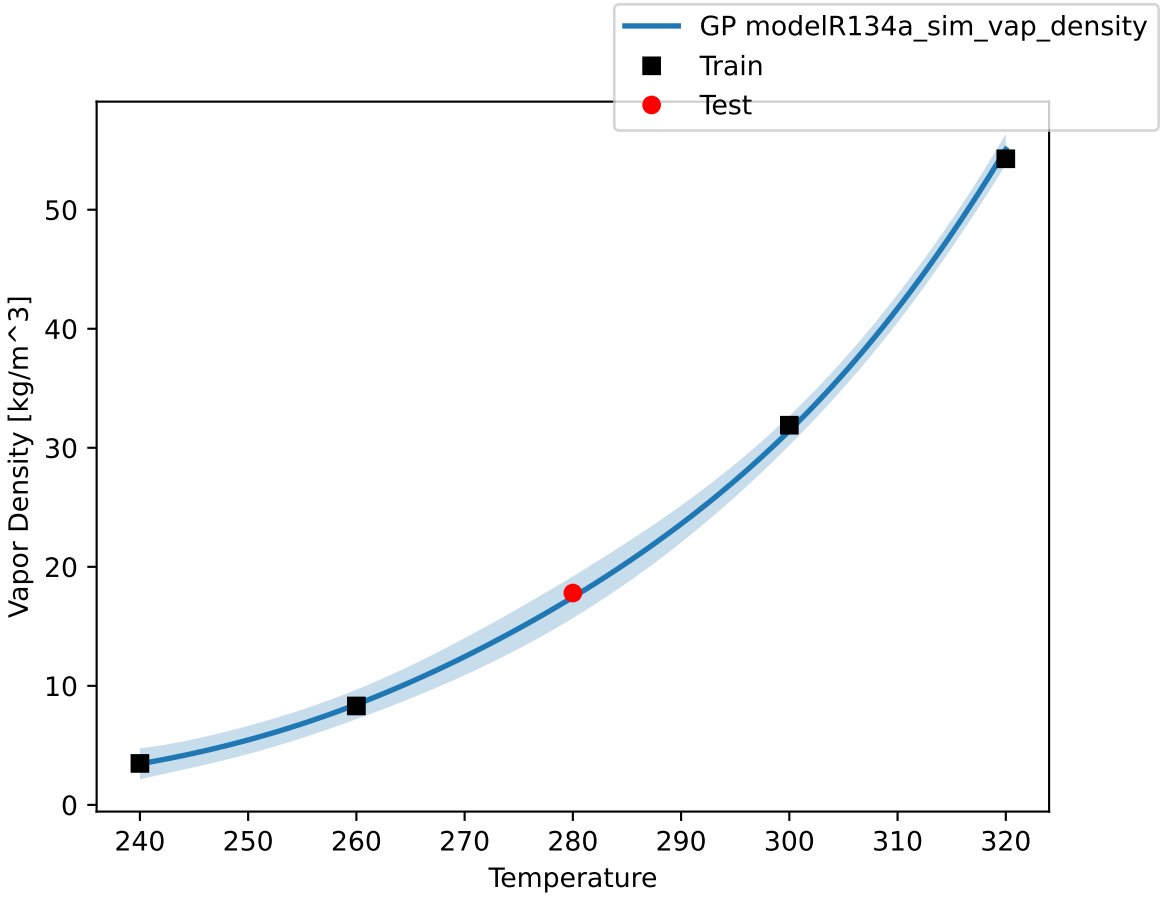
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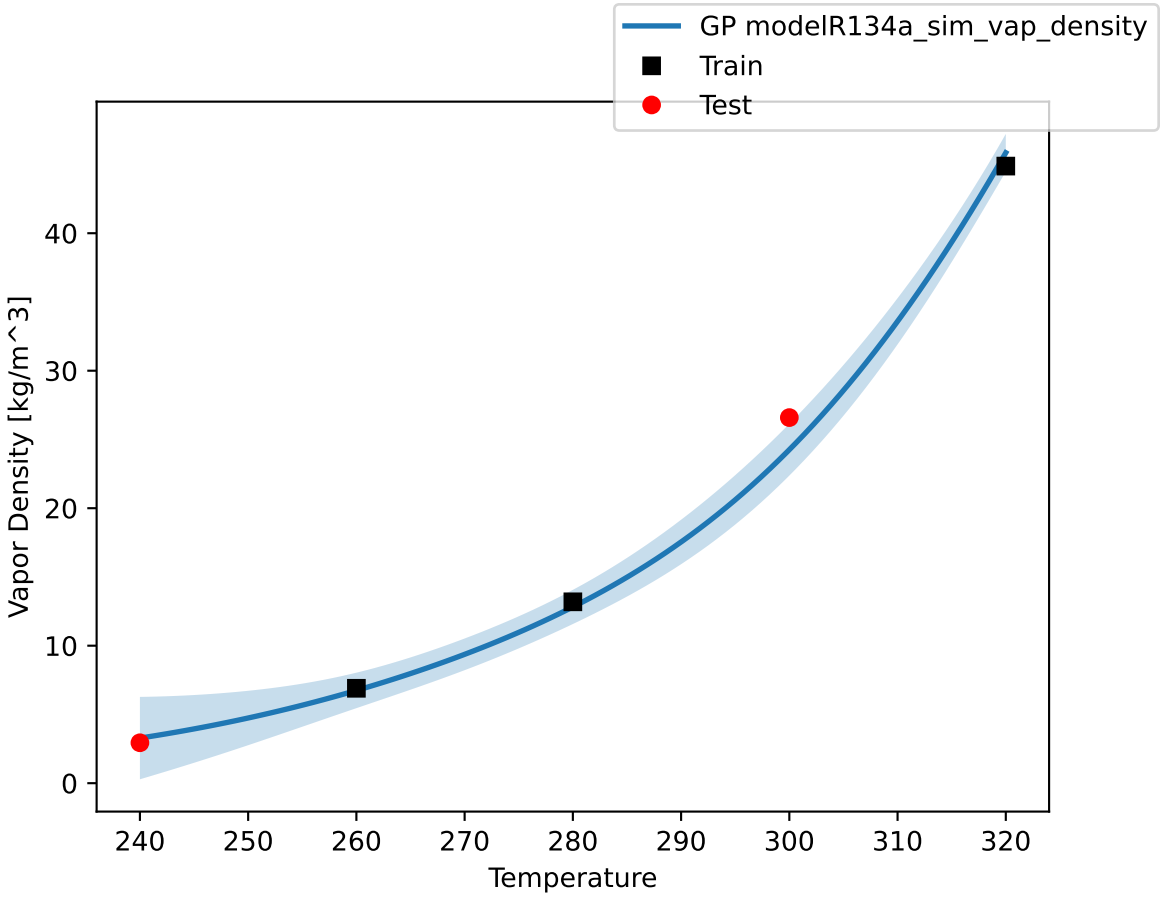
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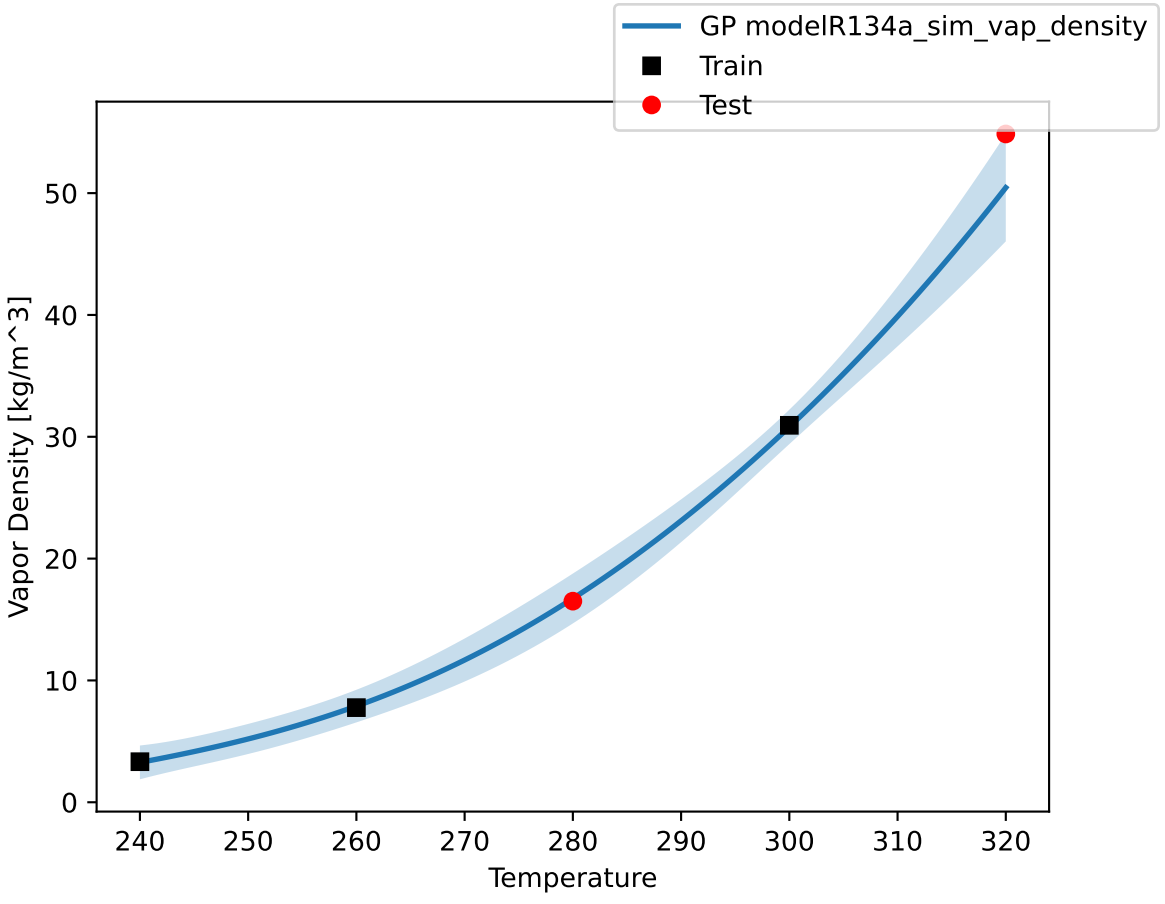
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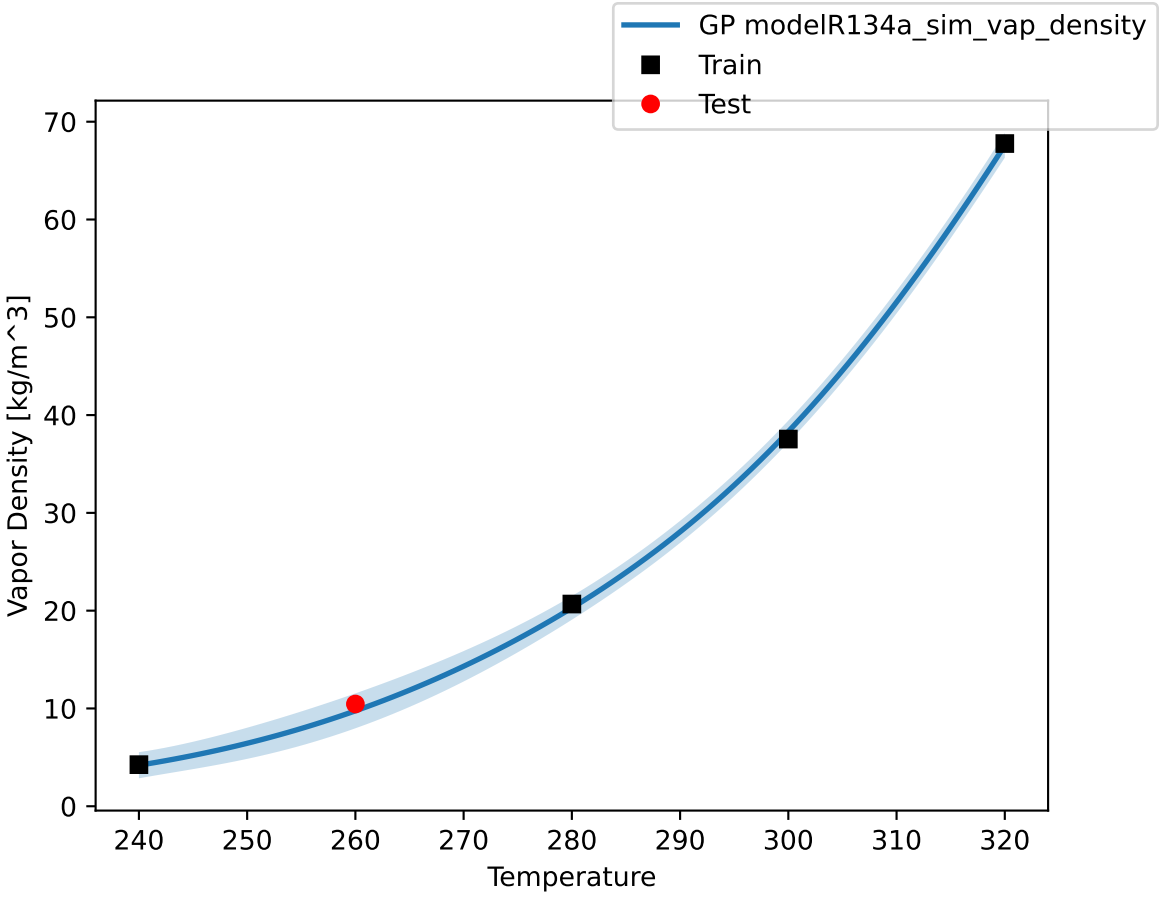
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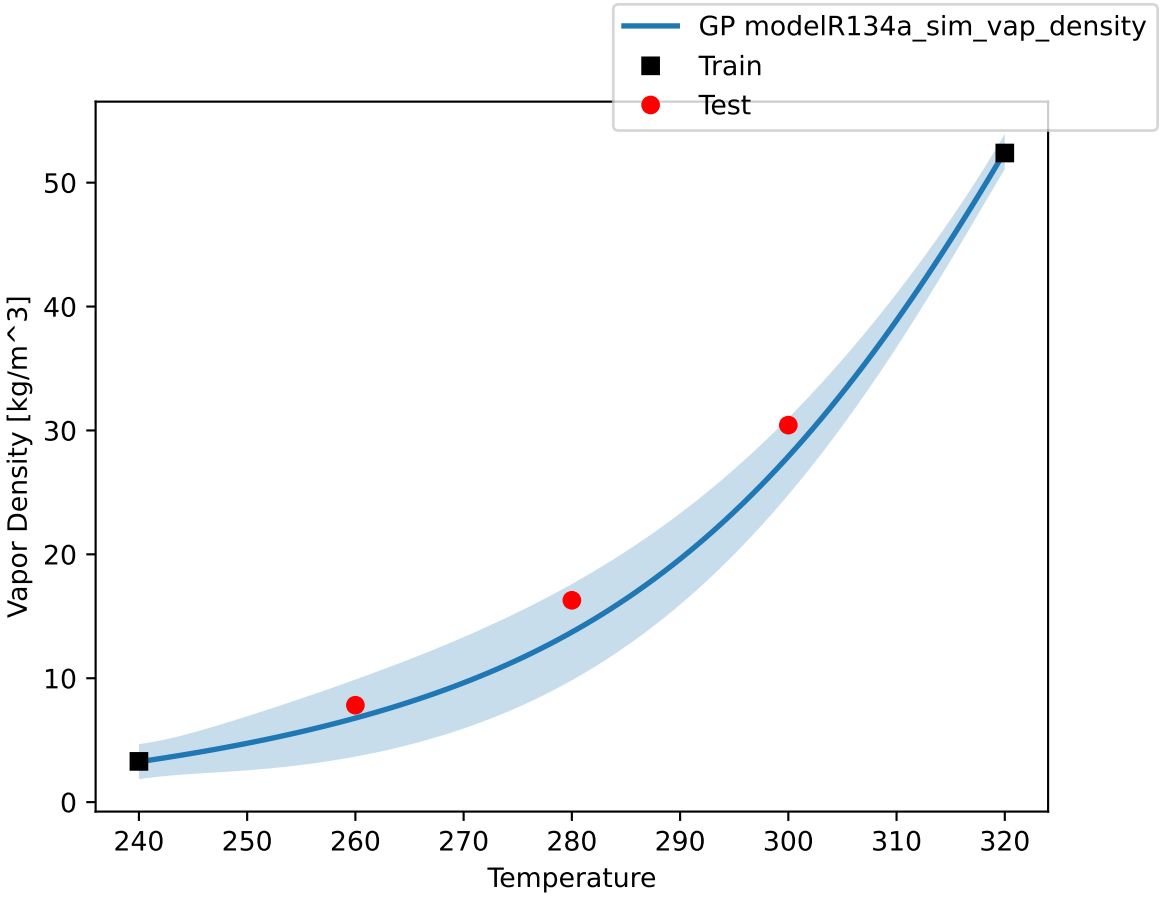
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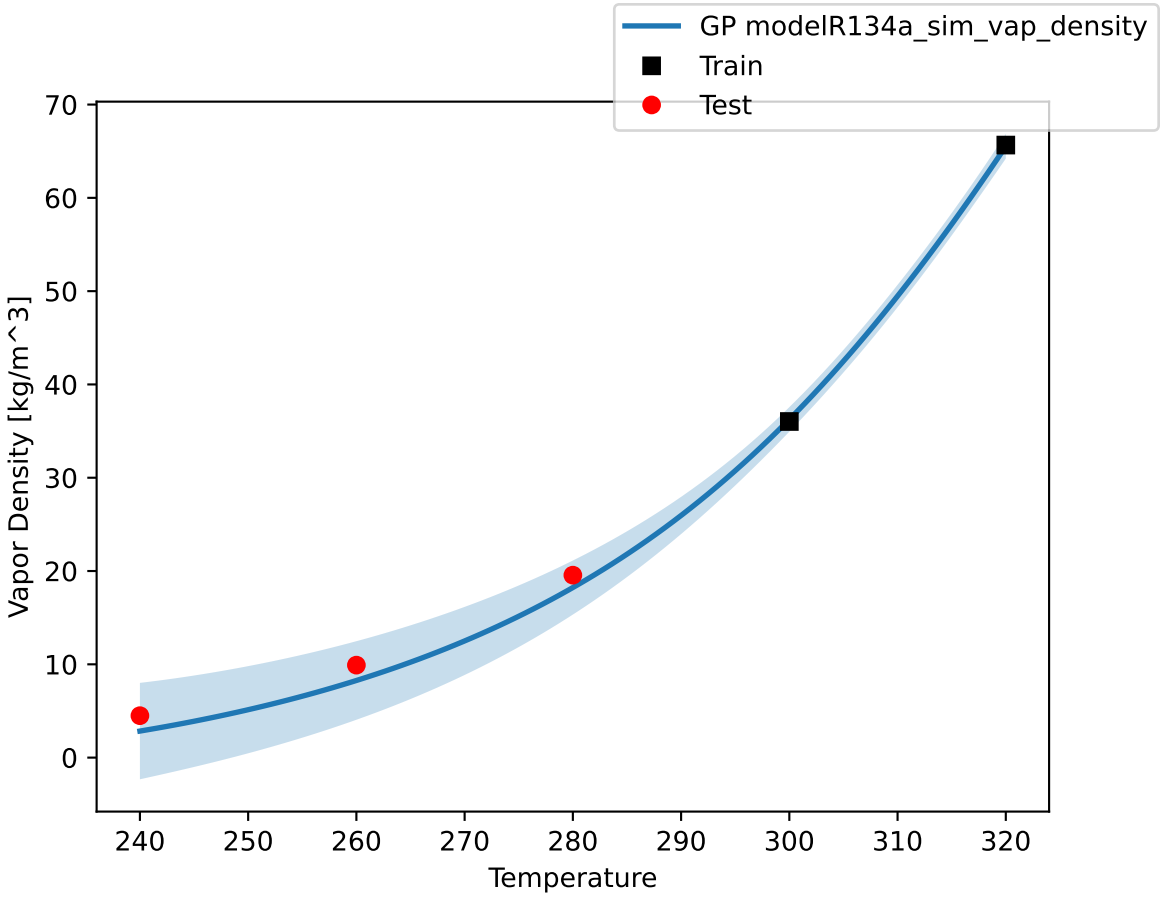
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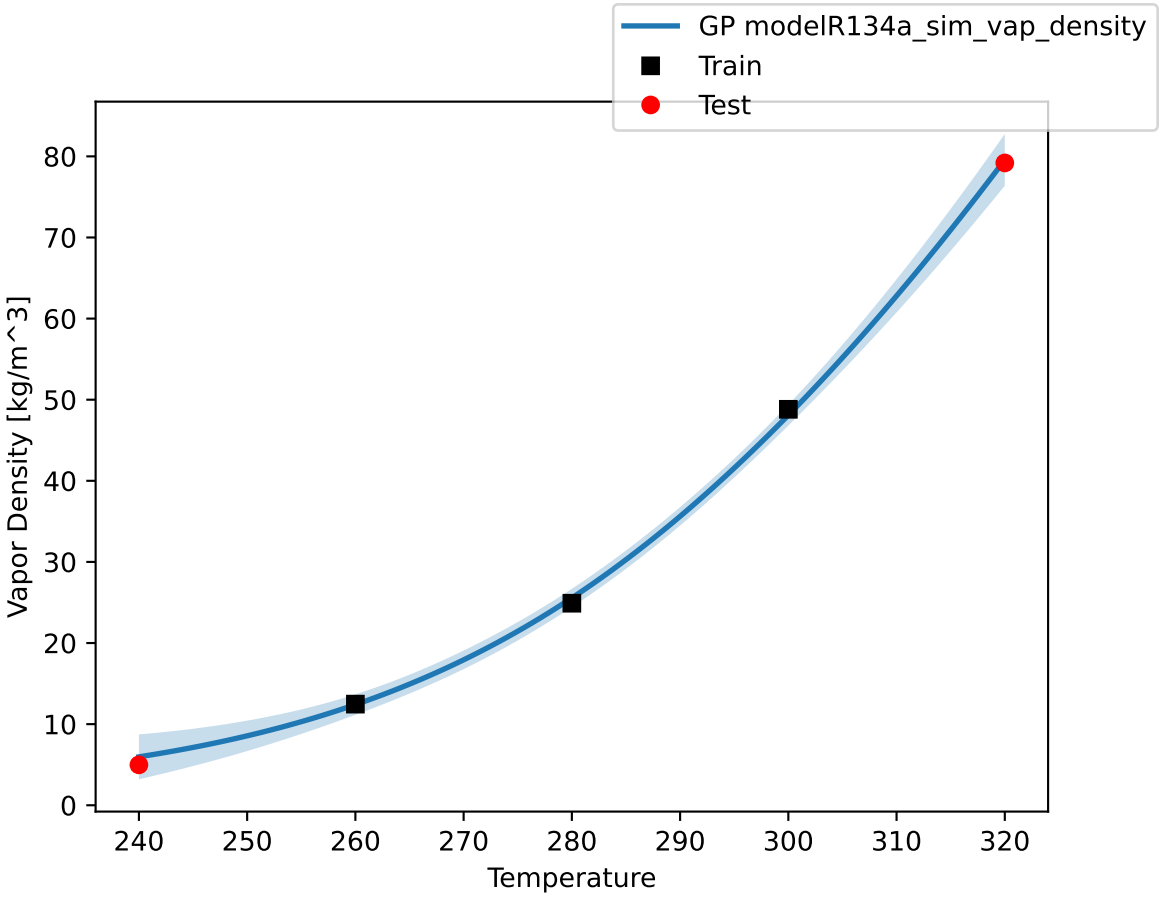
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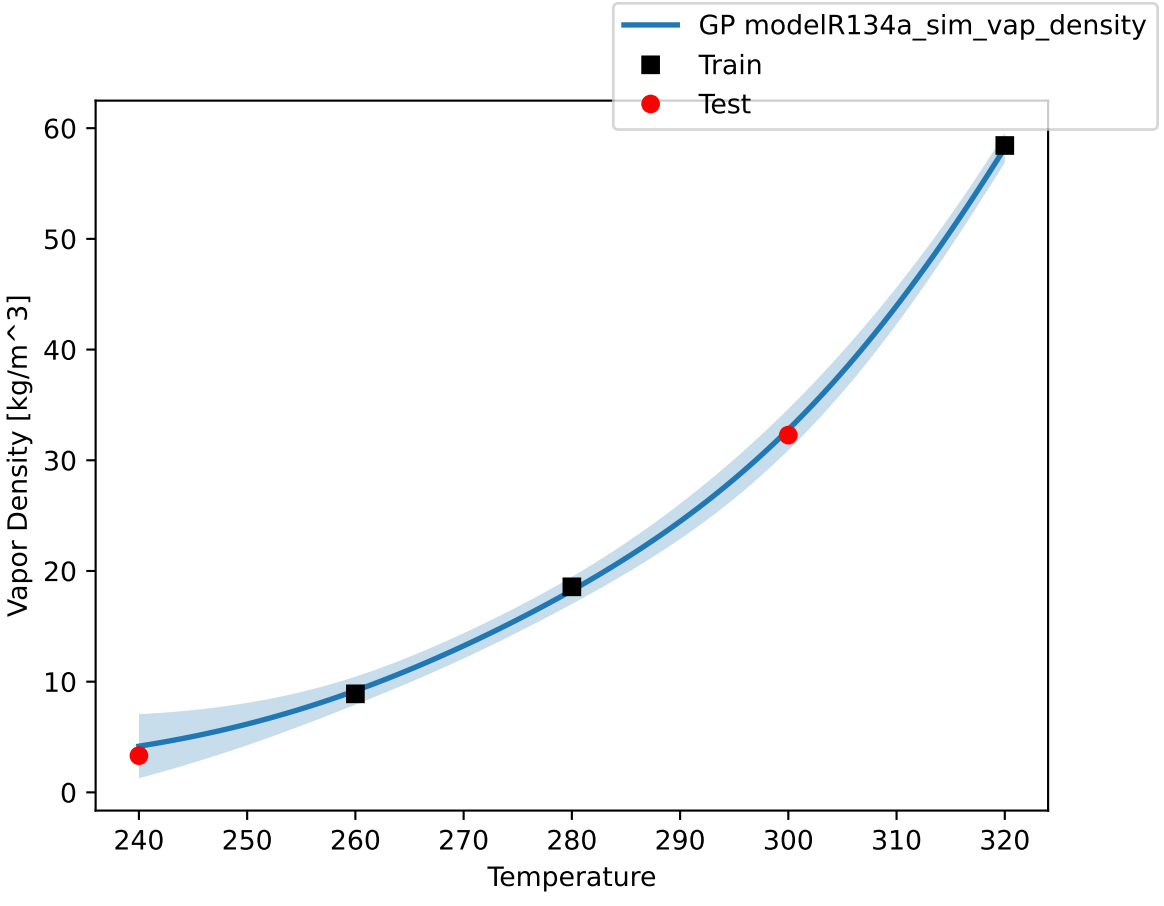
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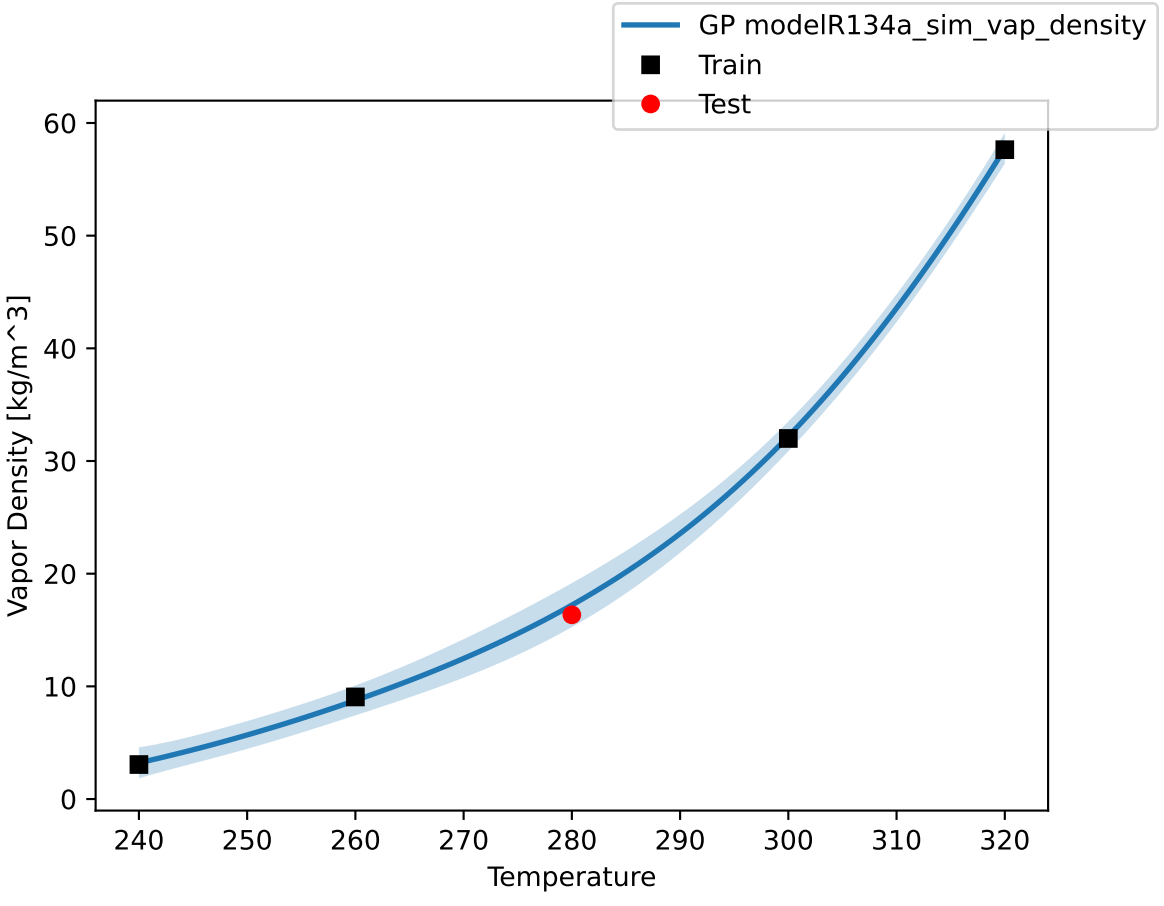
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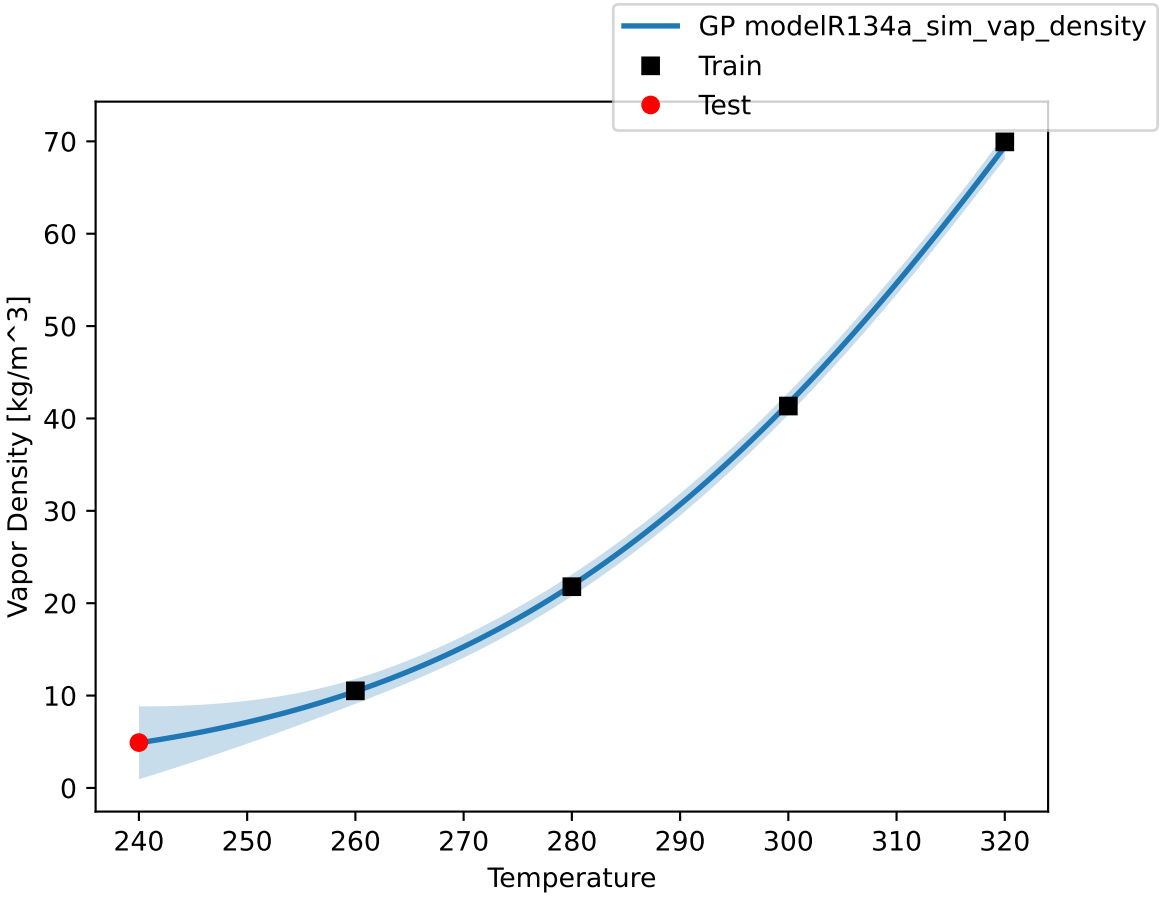
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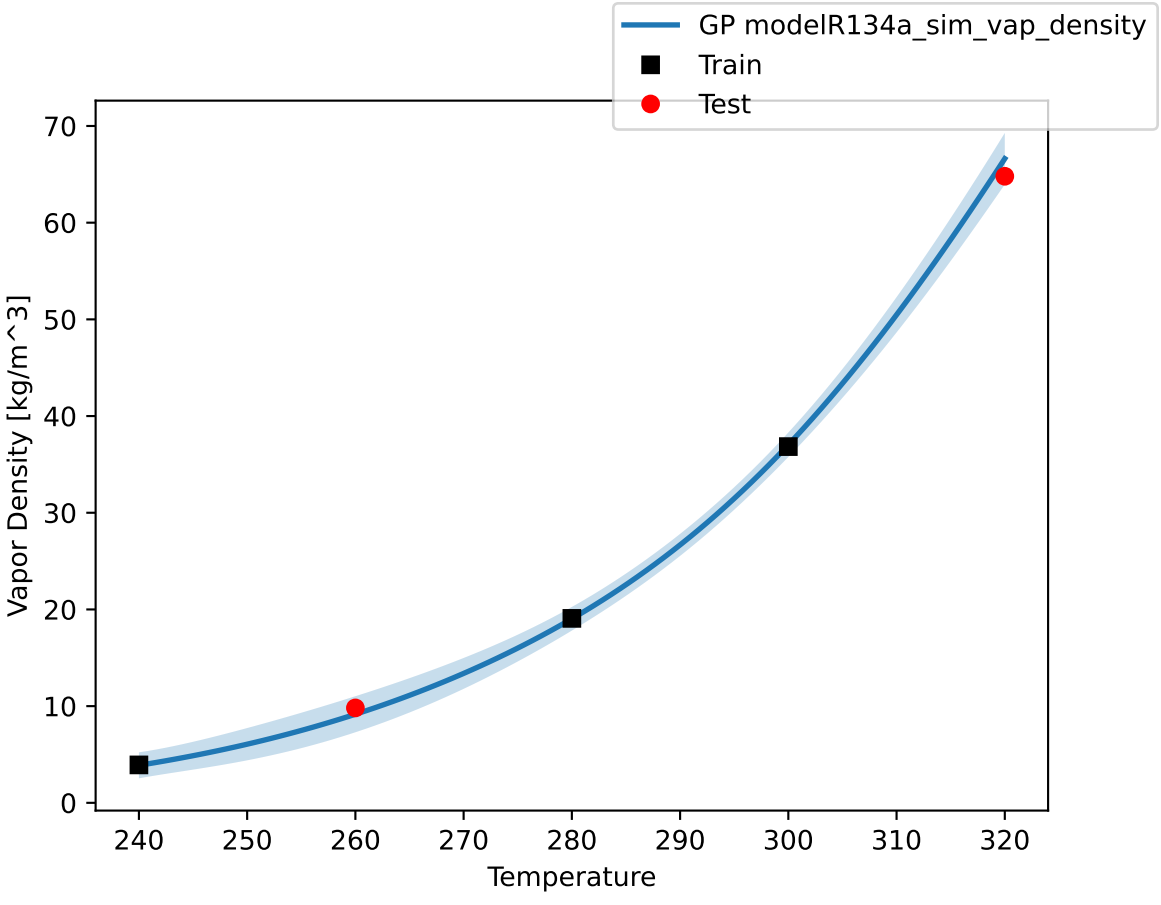
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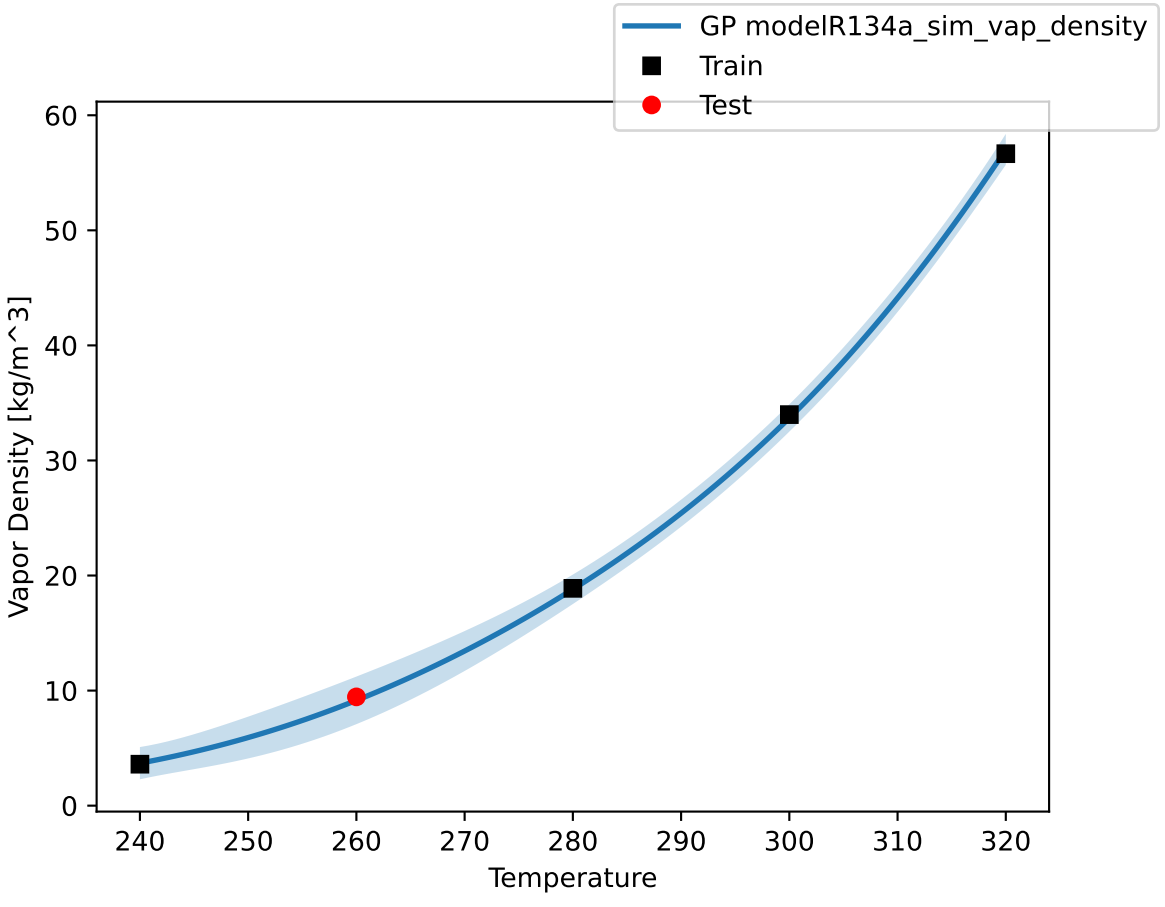
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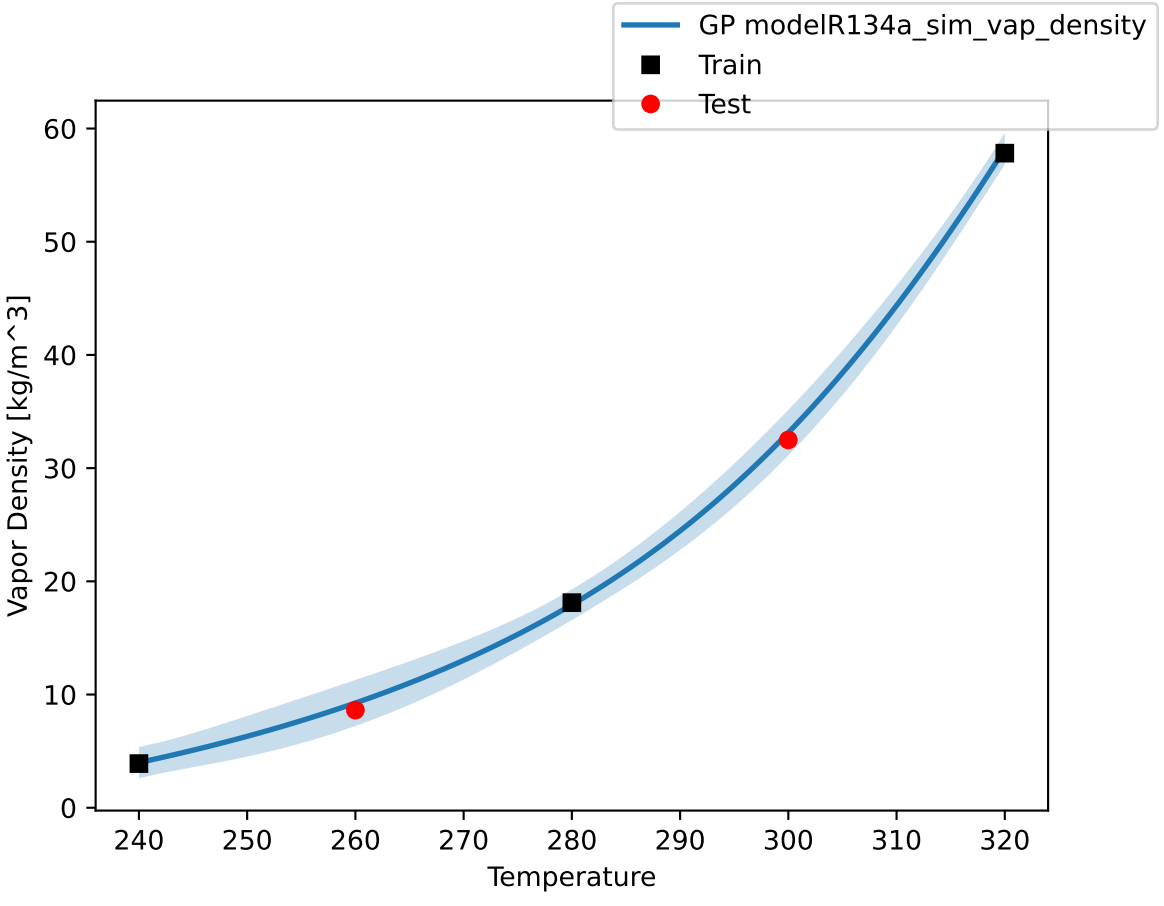
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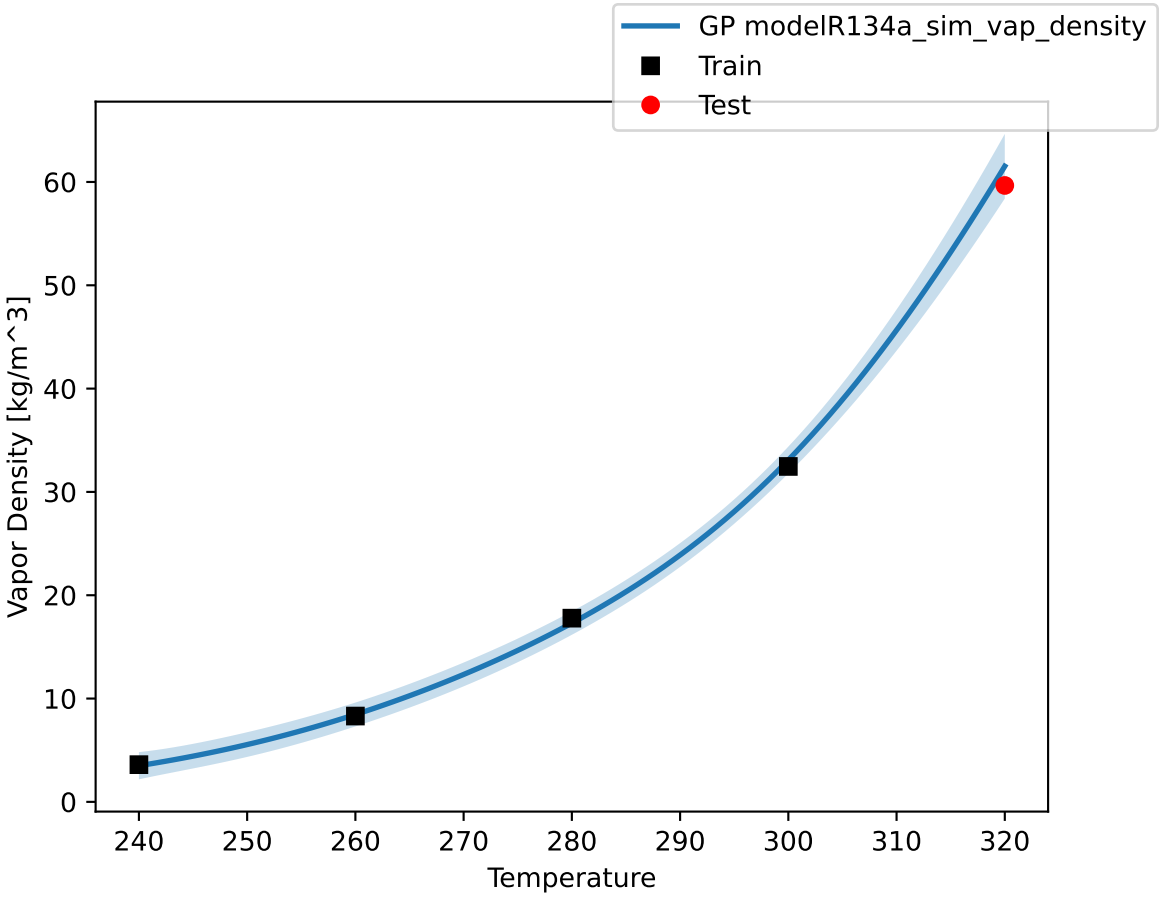
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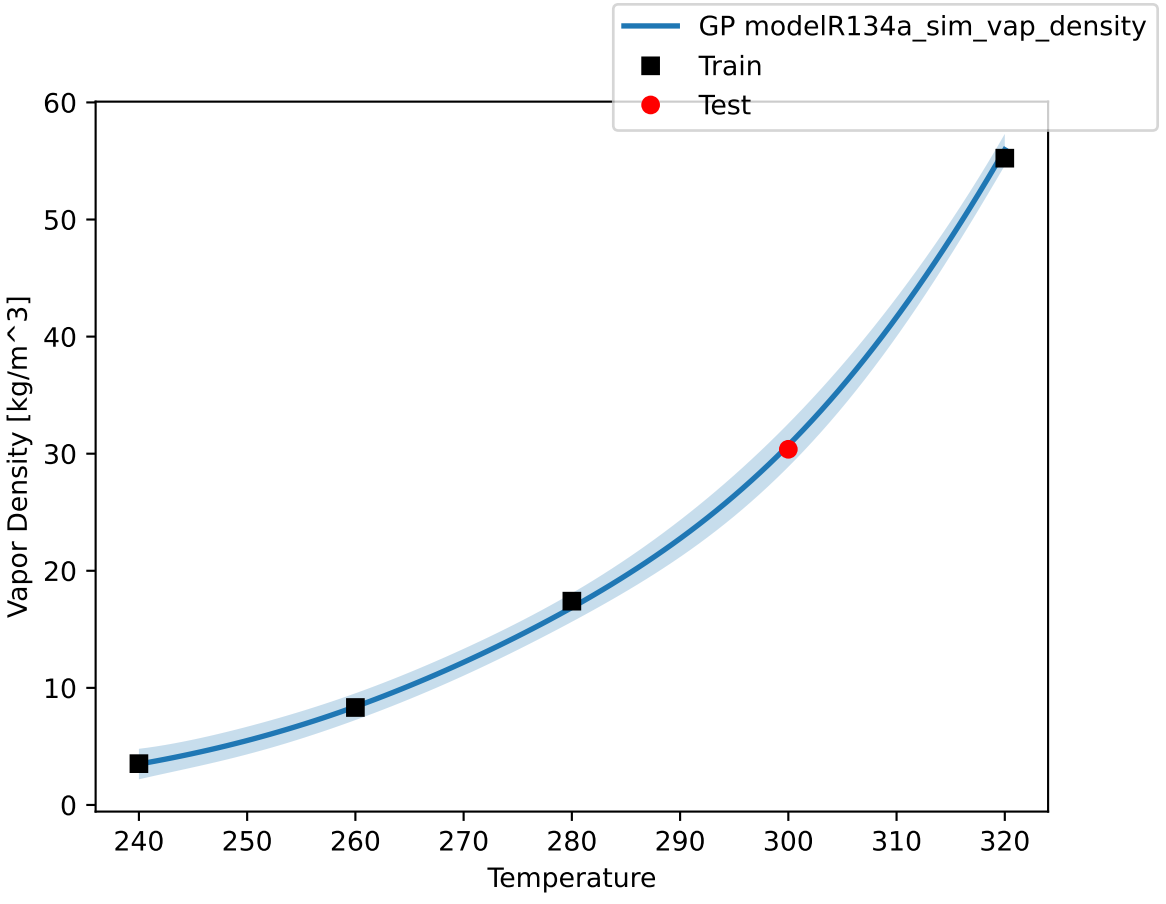
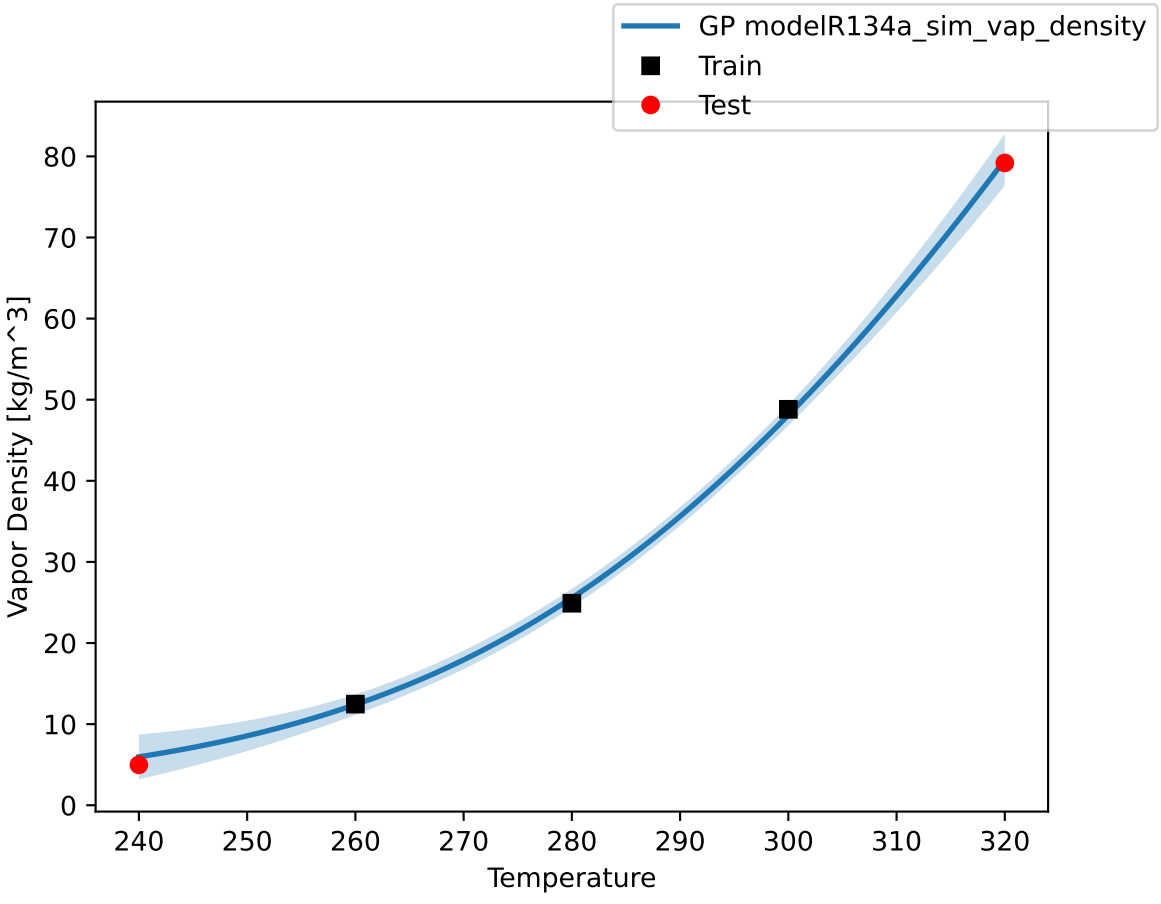
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
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30
40
50
60
70
80
240
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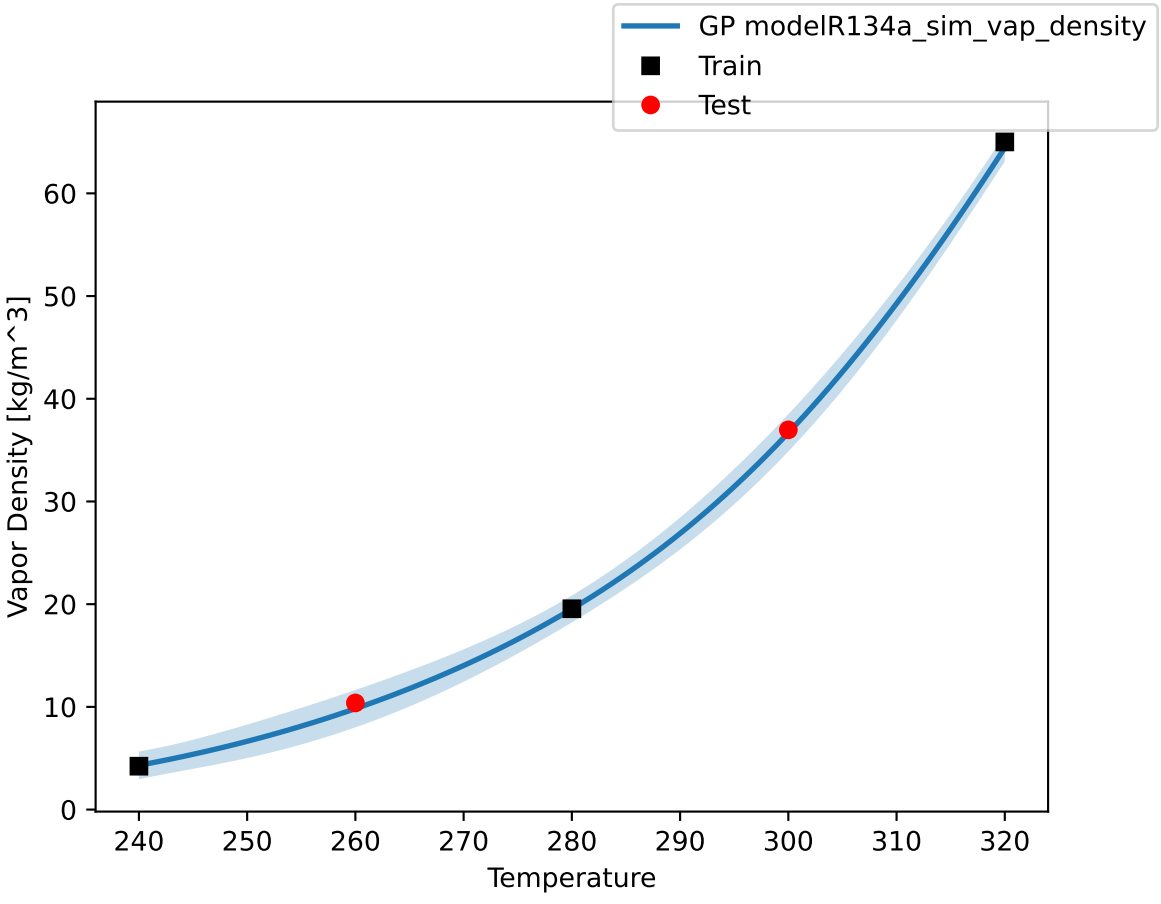
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
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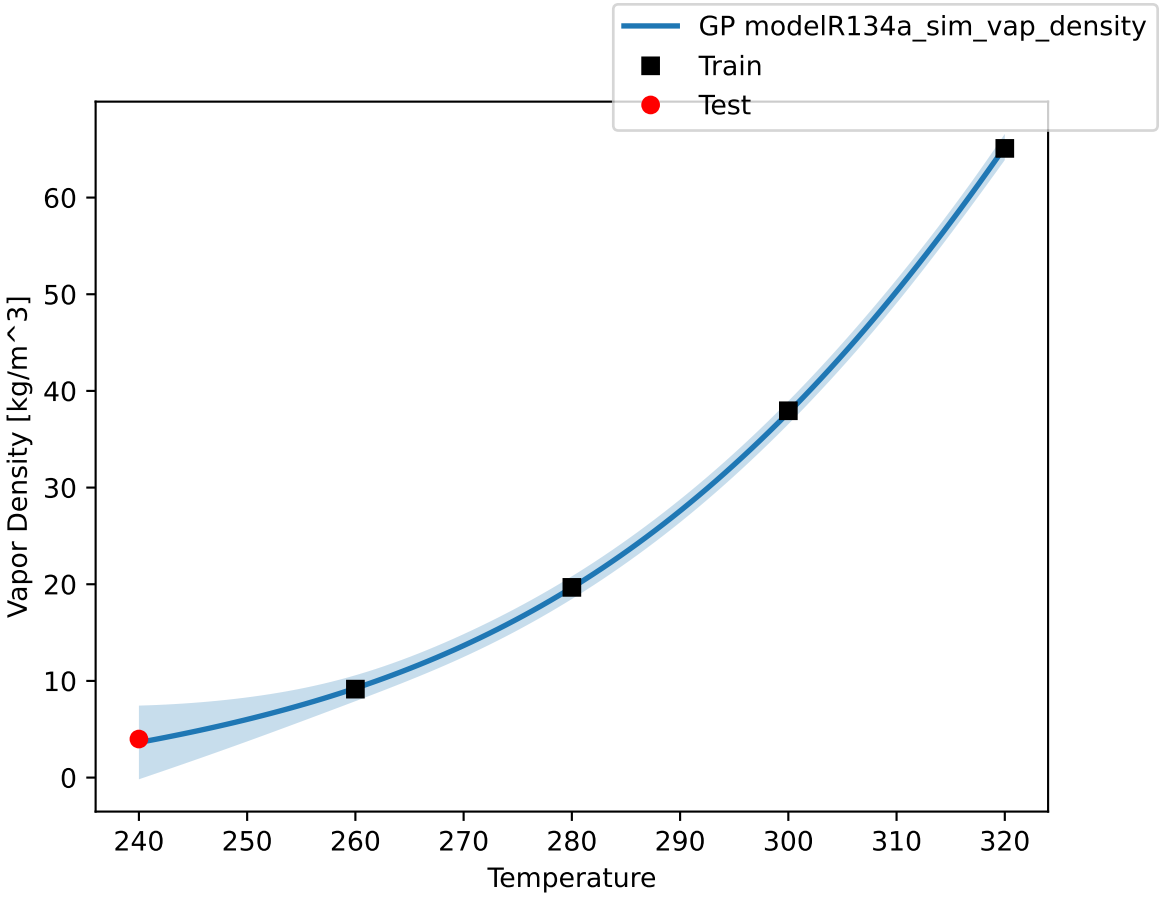
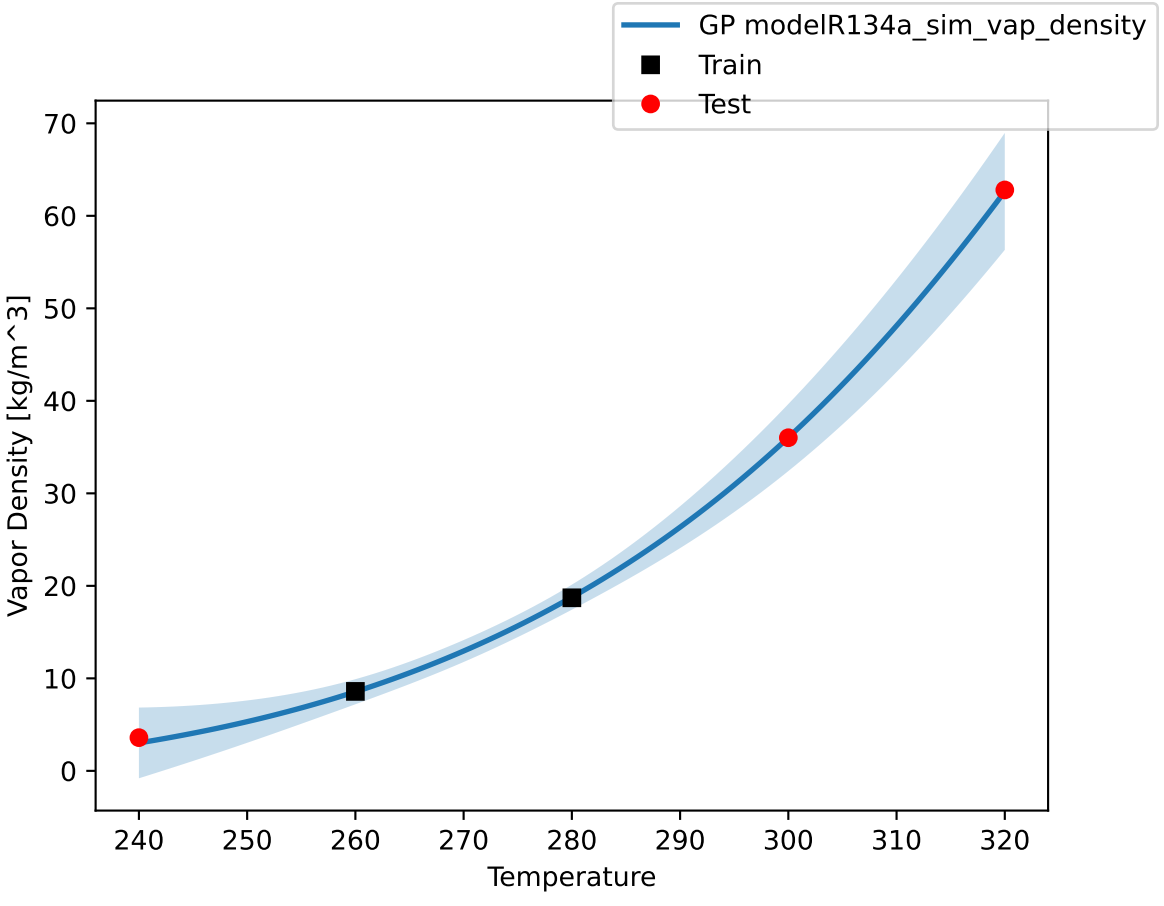
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
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250
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300
310
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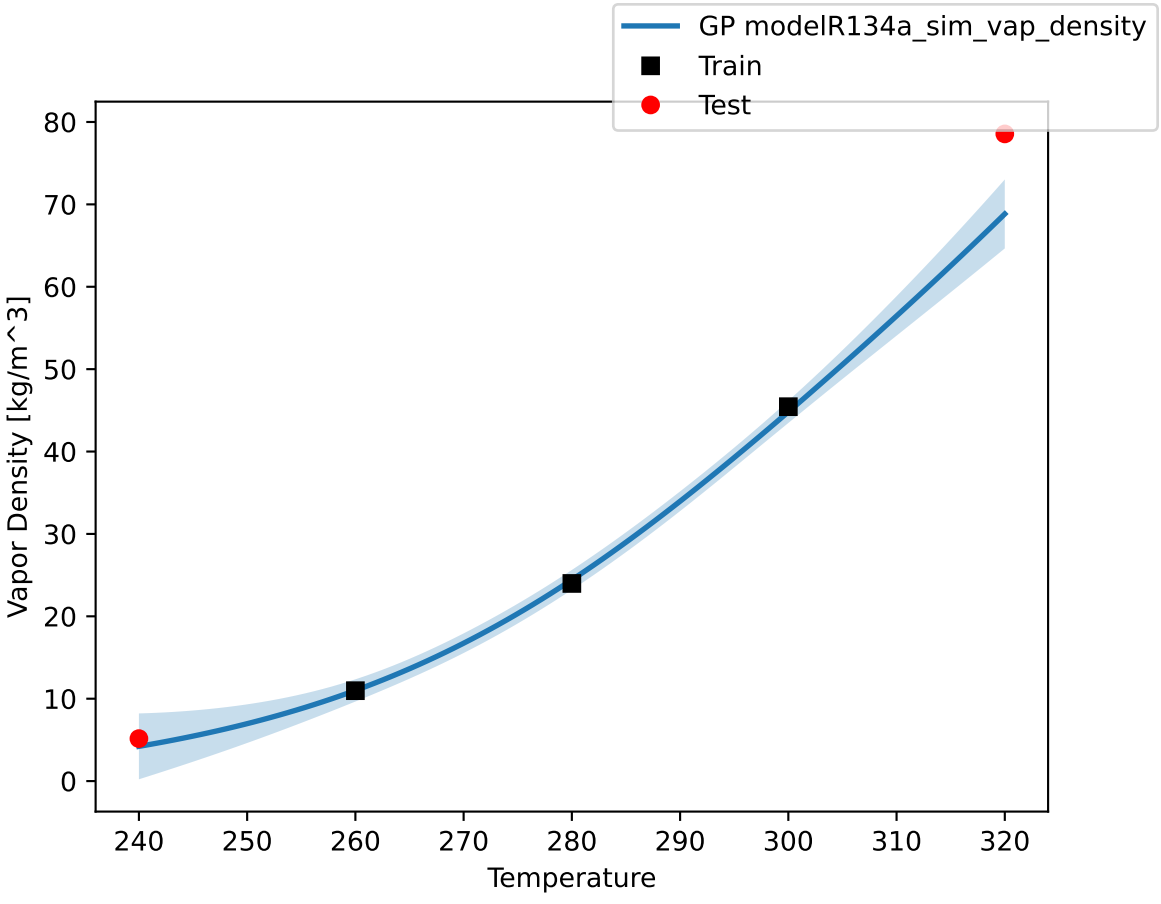
GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
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50
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80
240
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260
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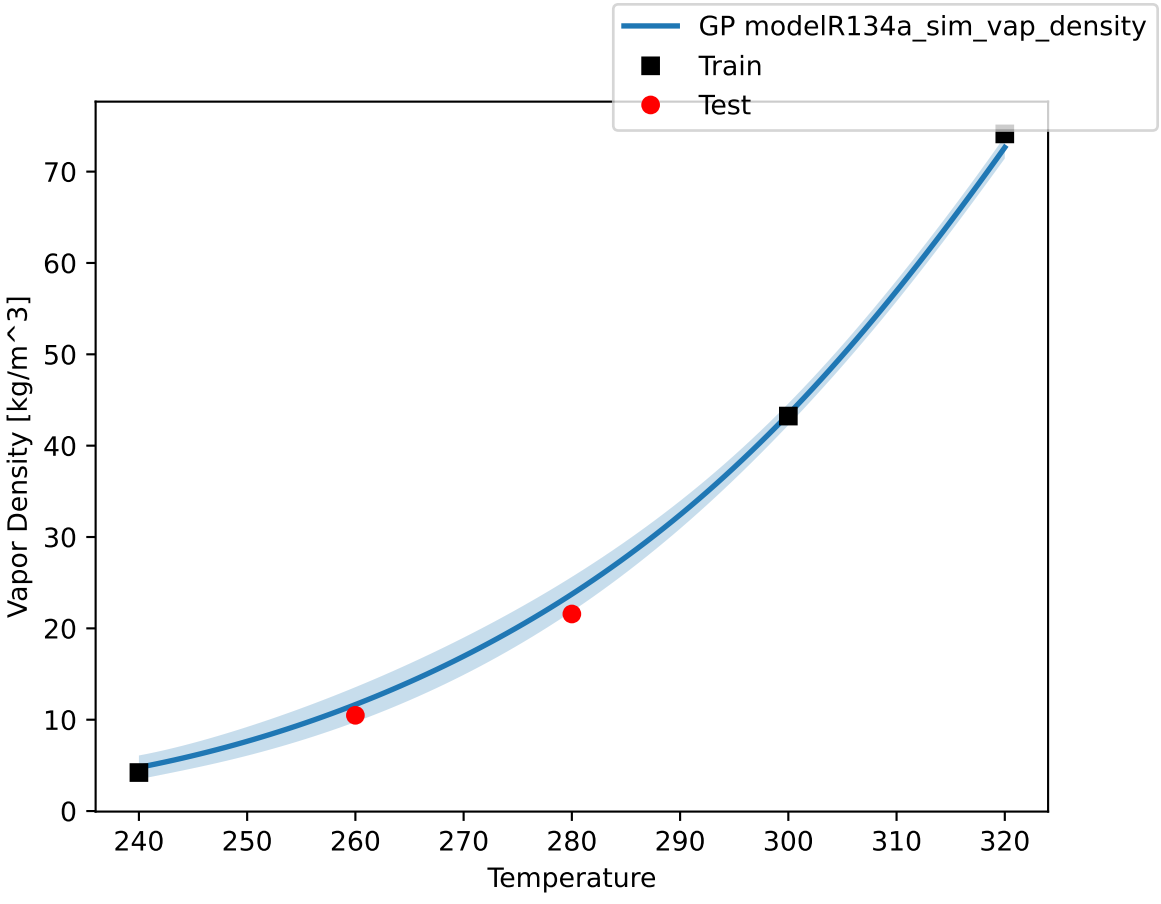
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
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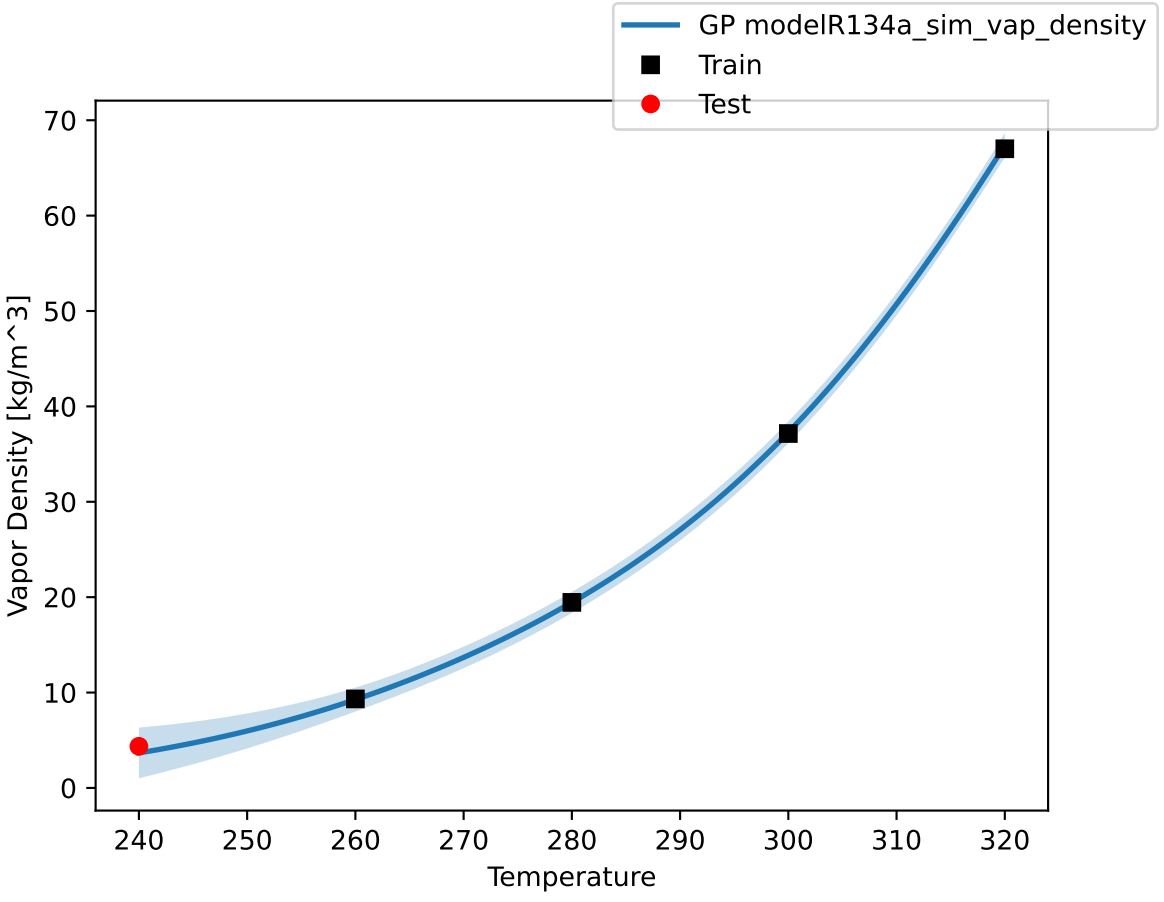
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
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50
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240
250
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280
290
300
310
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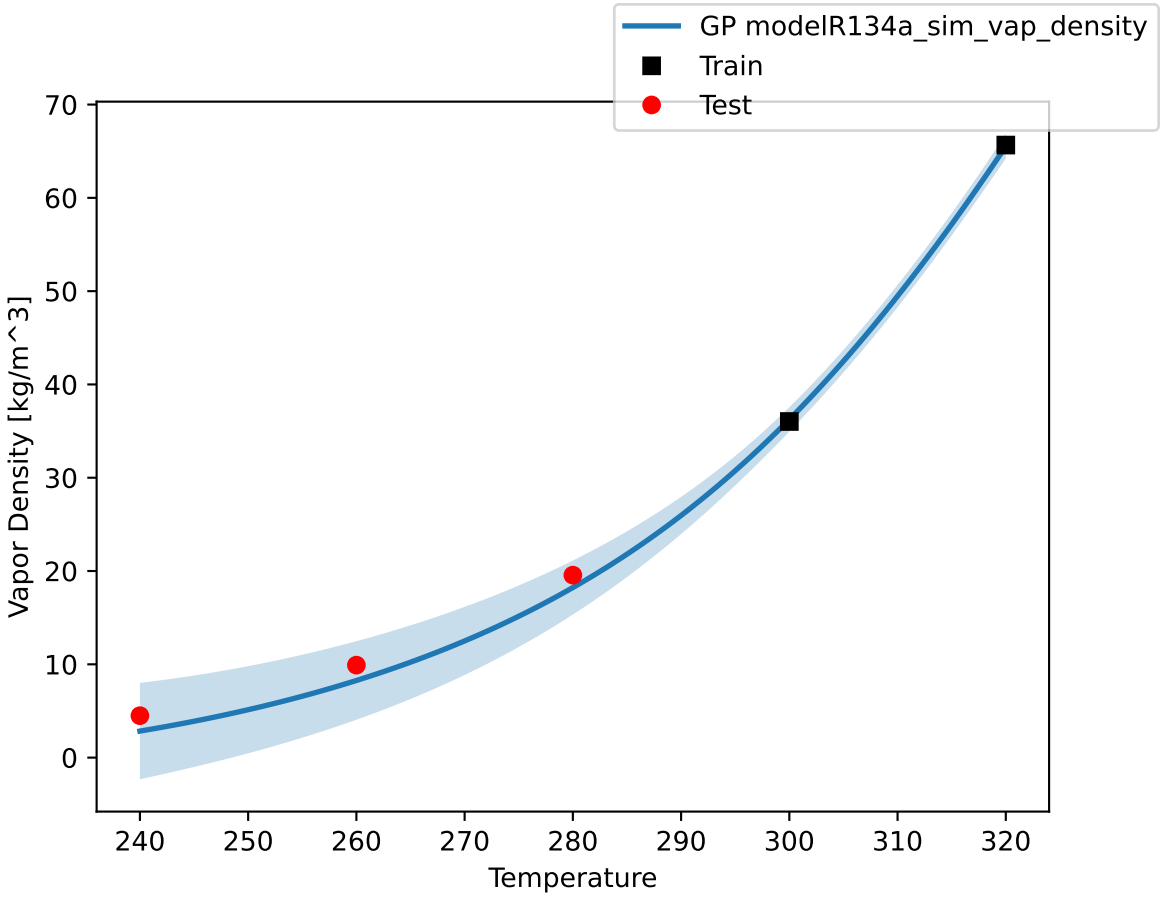
GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
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300
310
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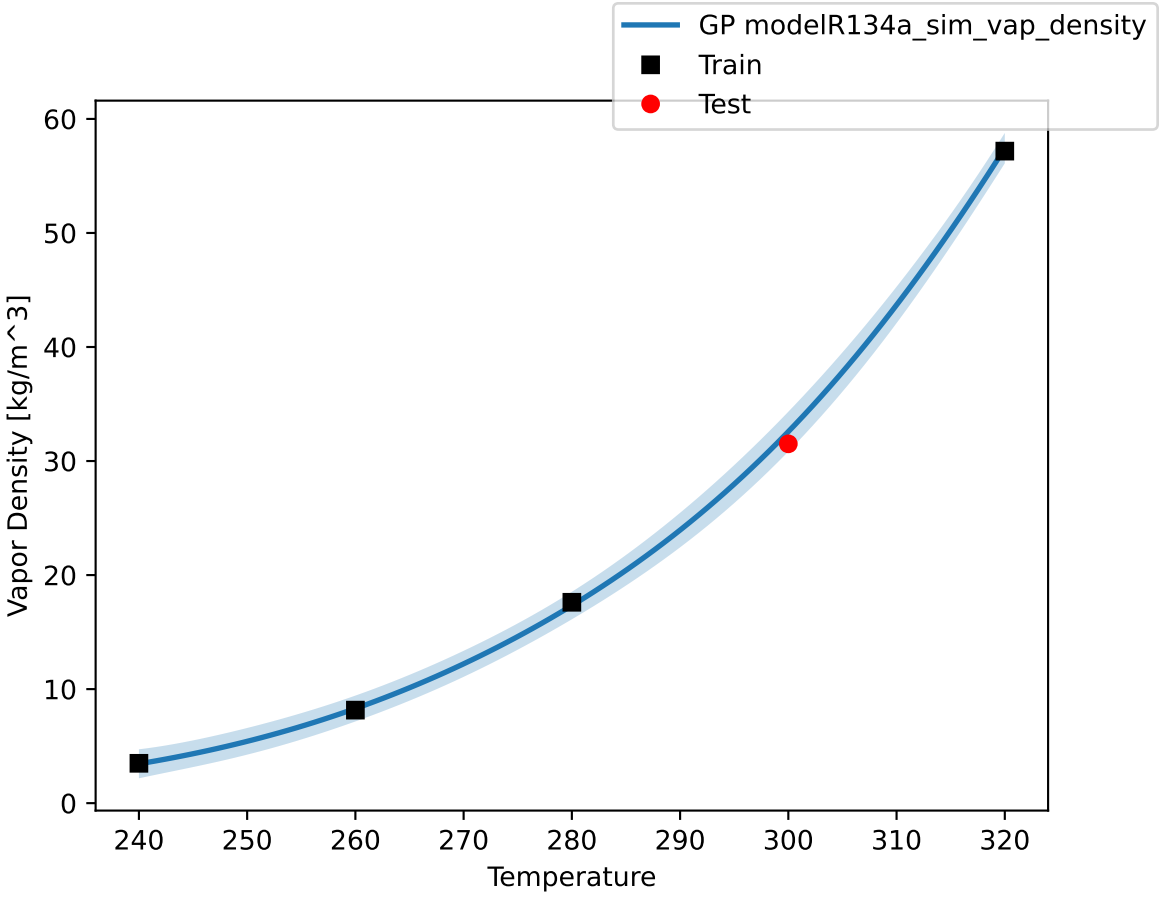
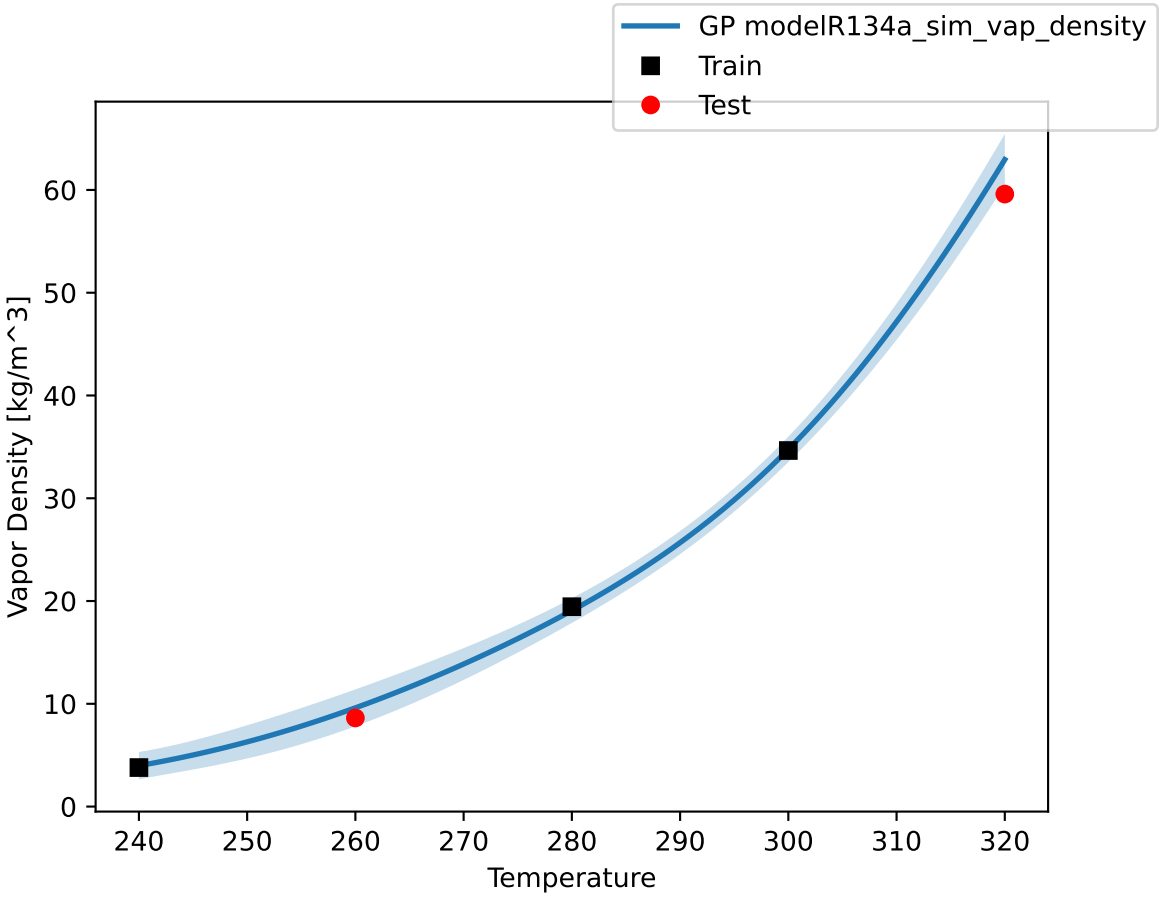

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
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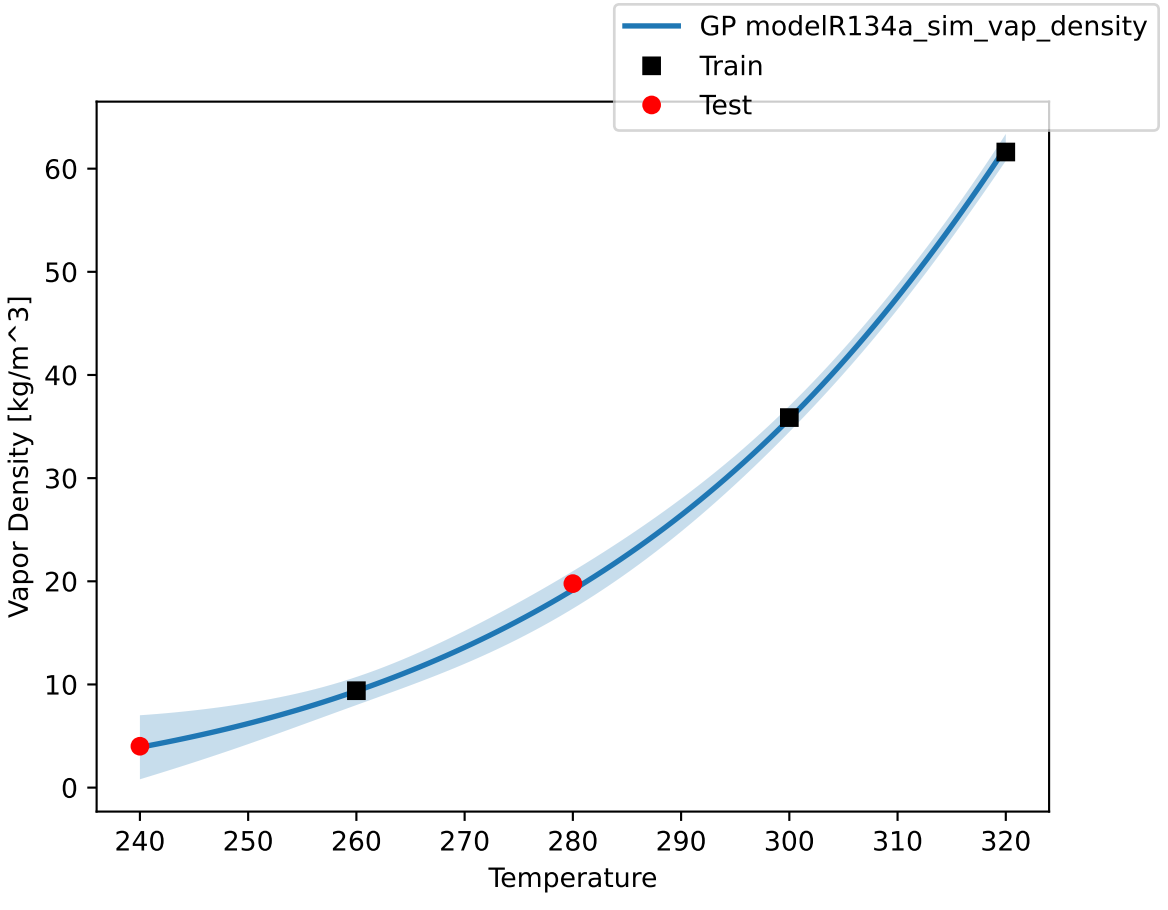
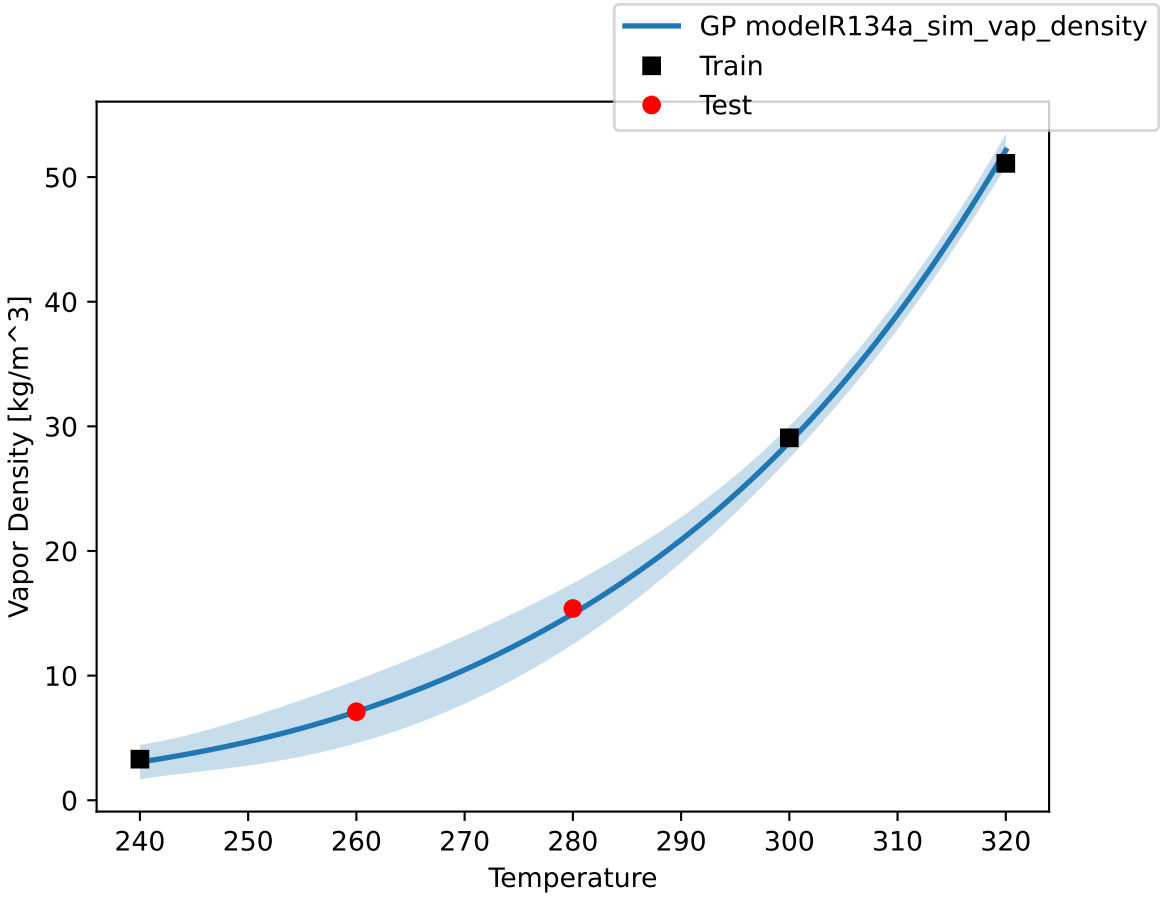
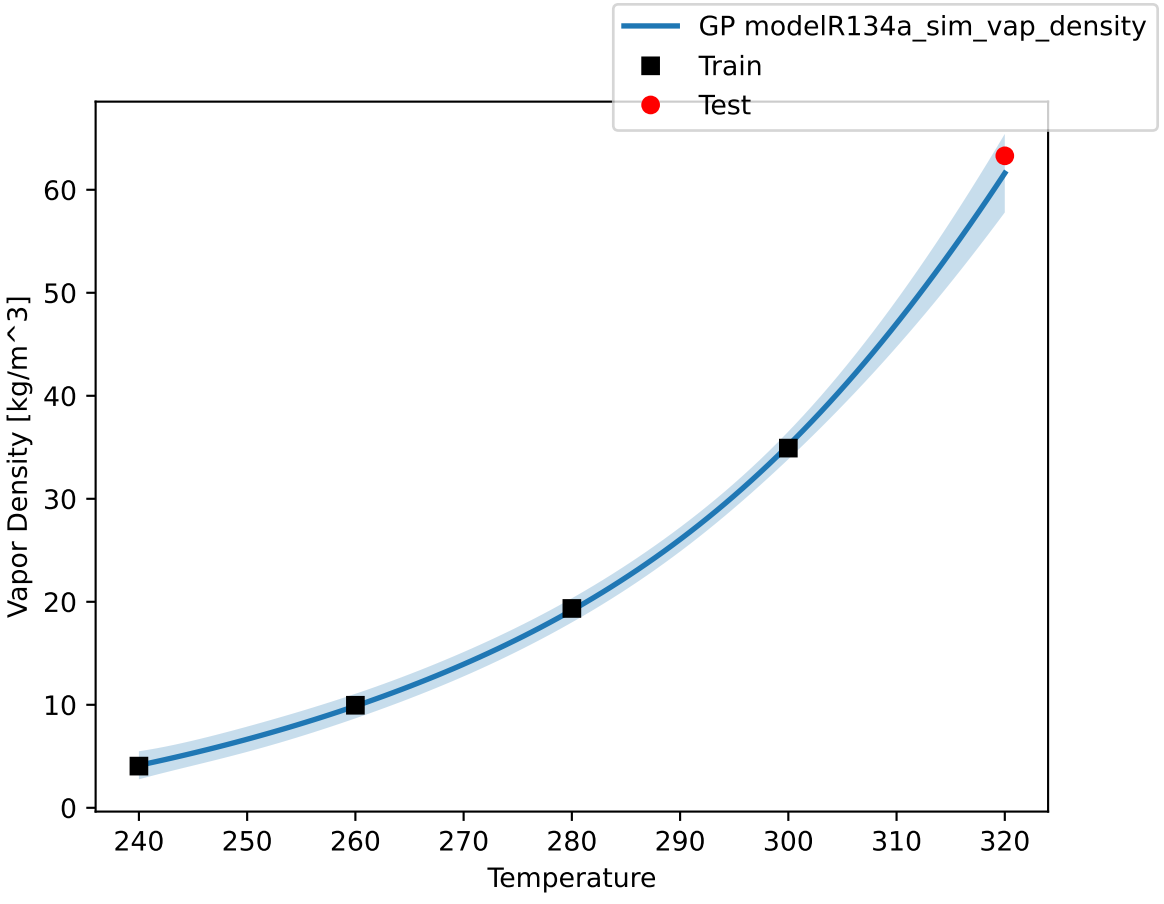
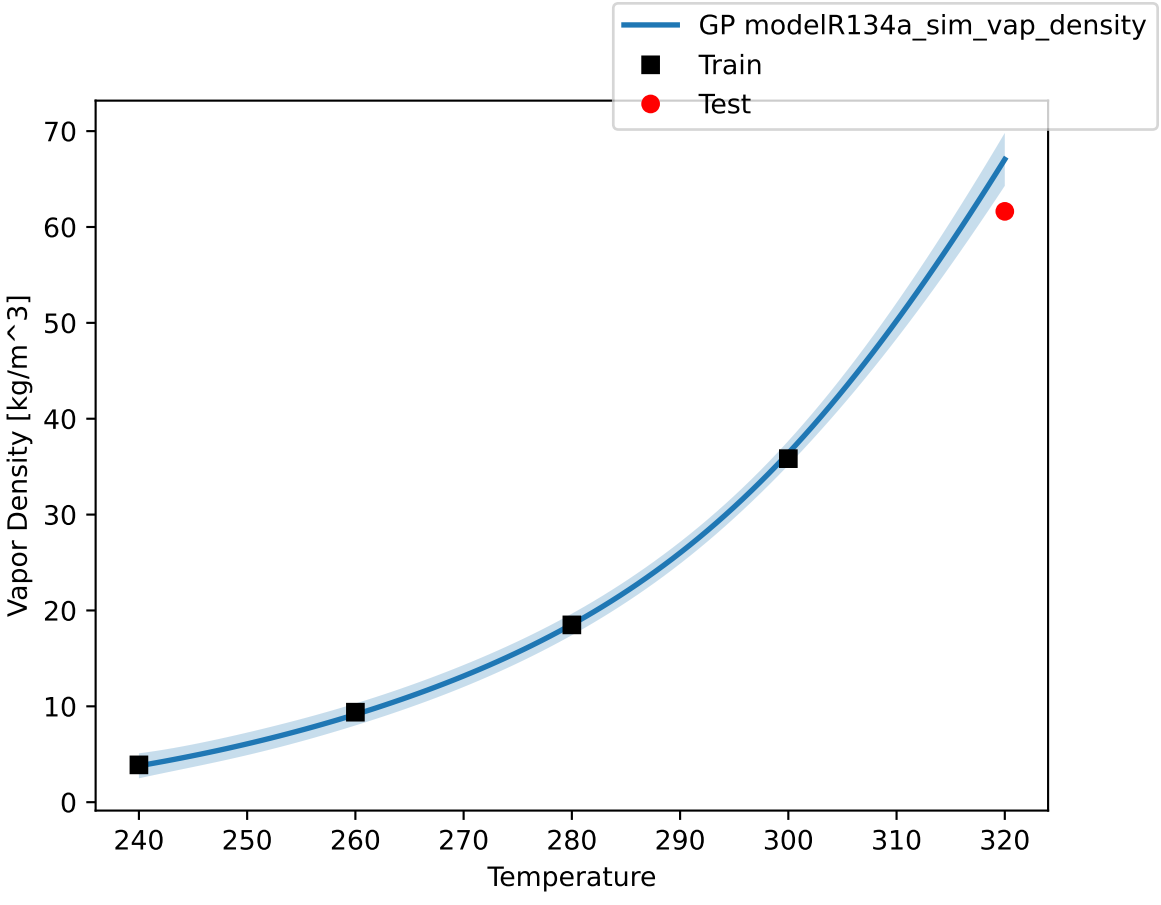
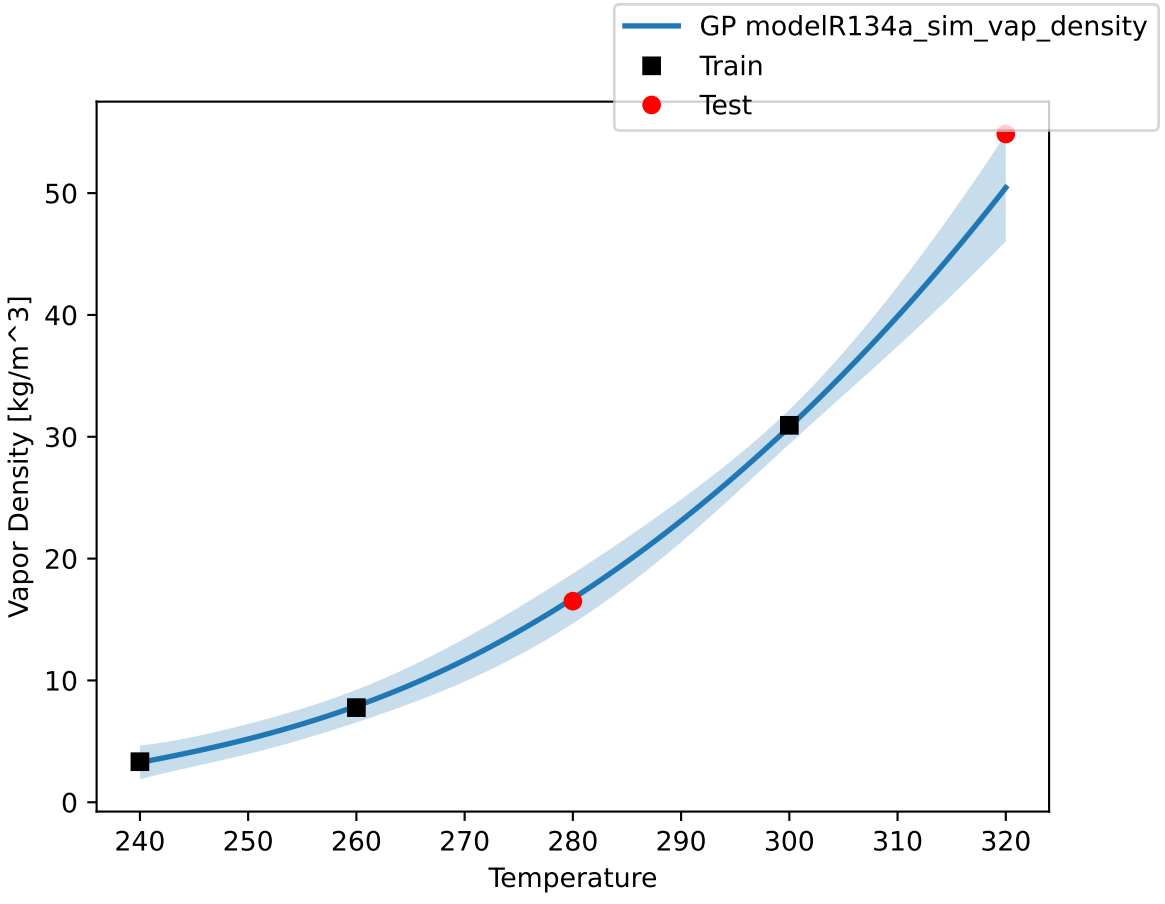
260
270
280
290
300
310
320
Temperature

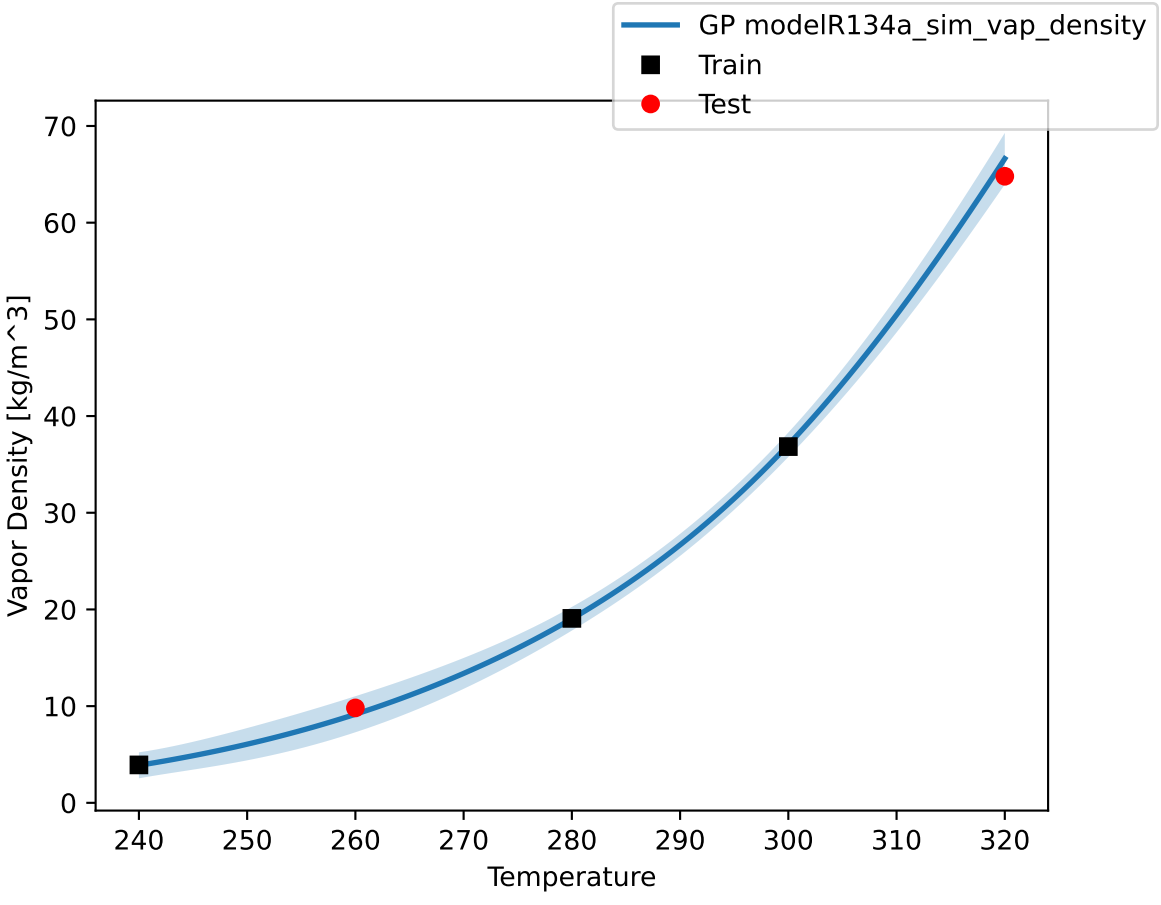

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature

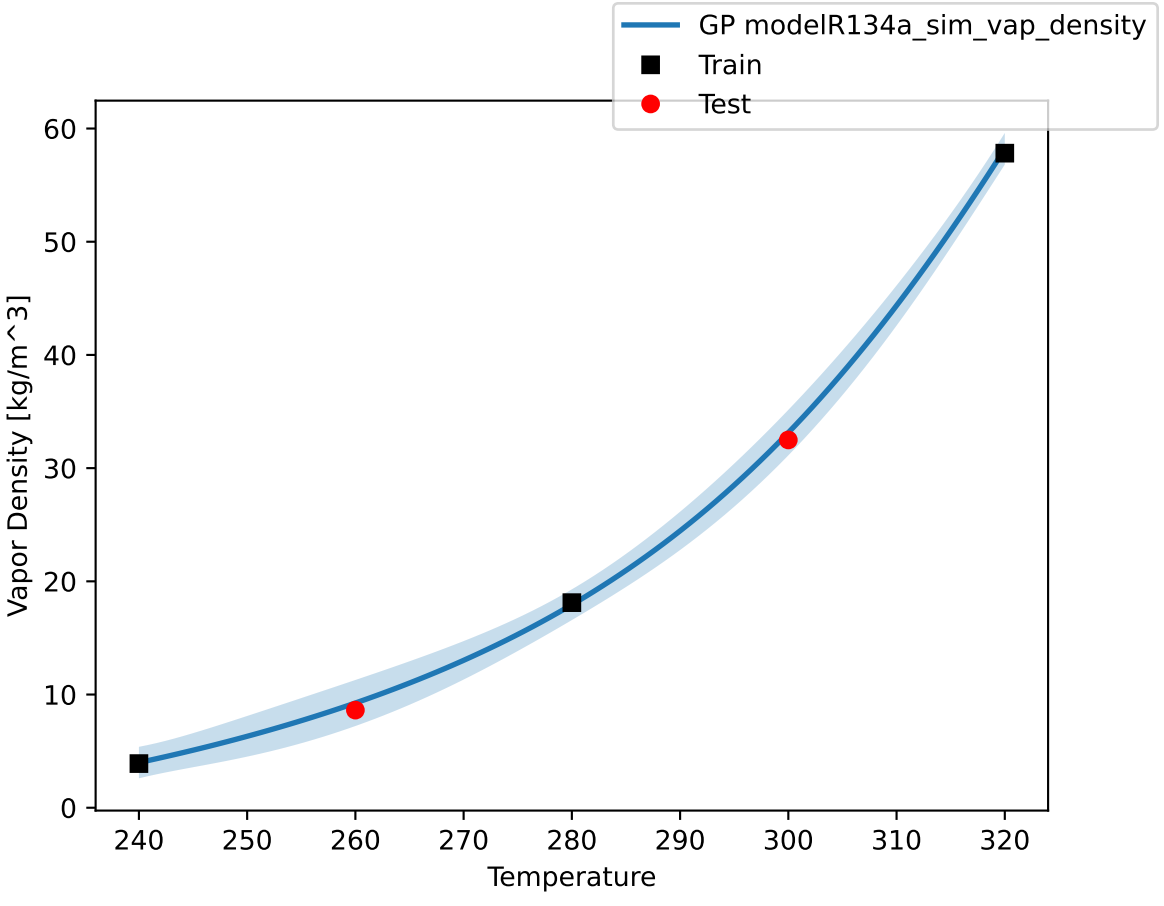

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
240
250
260
270
280
290
300
310
320
Temperature

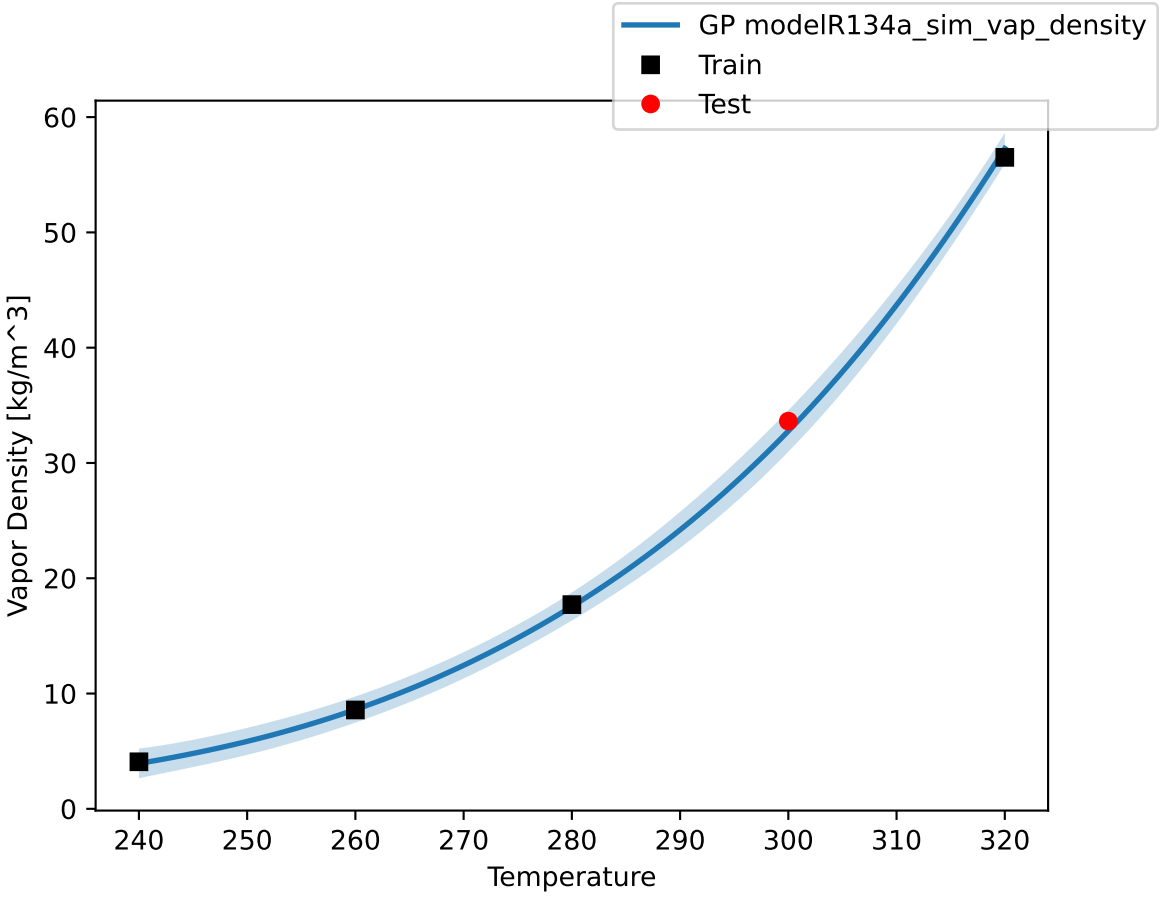

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320
Temperature

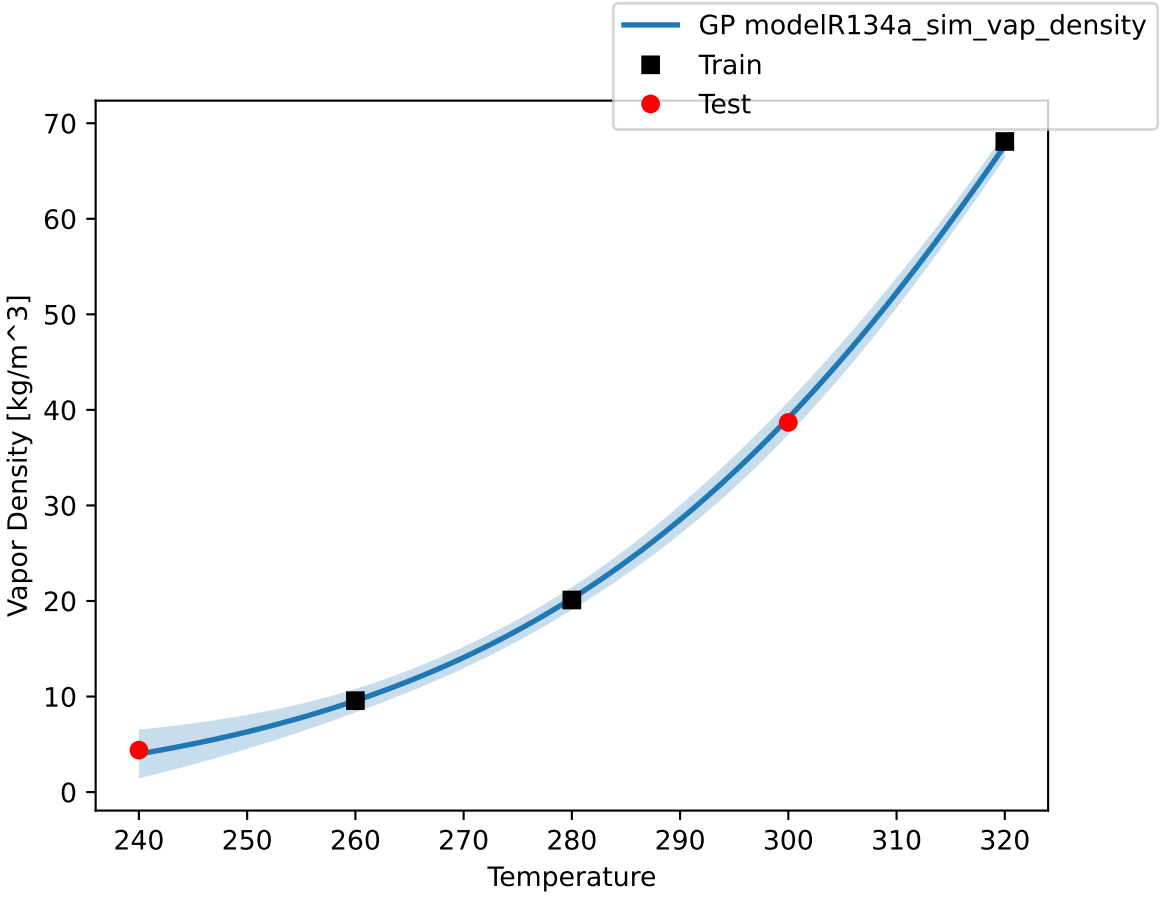

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320

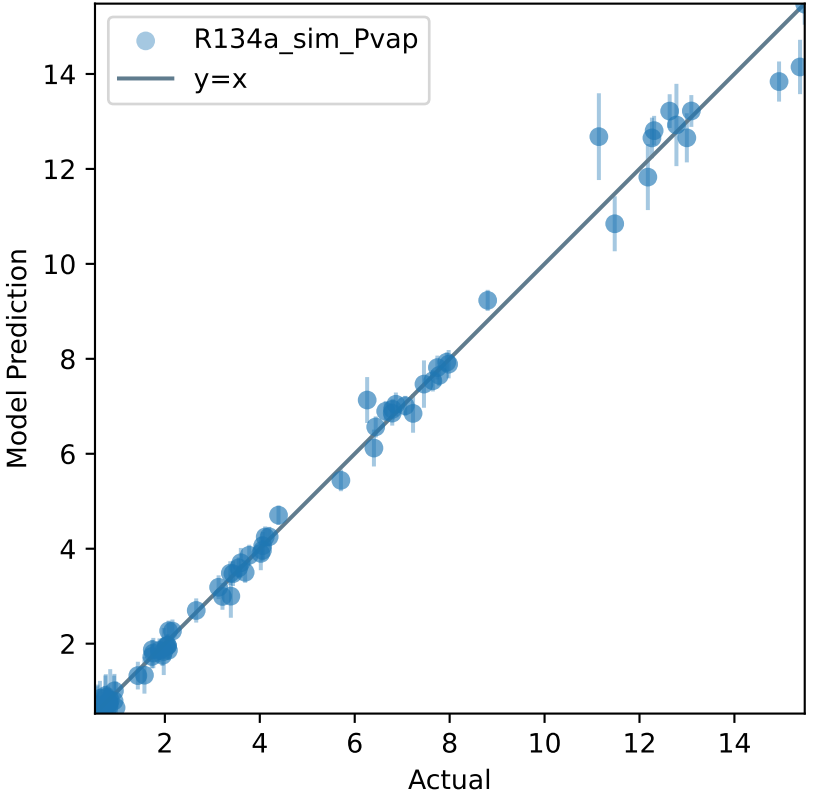

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
240
250
260
270
280
290
300
310
320
Temperature

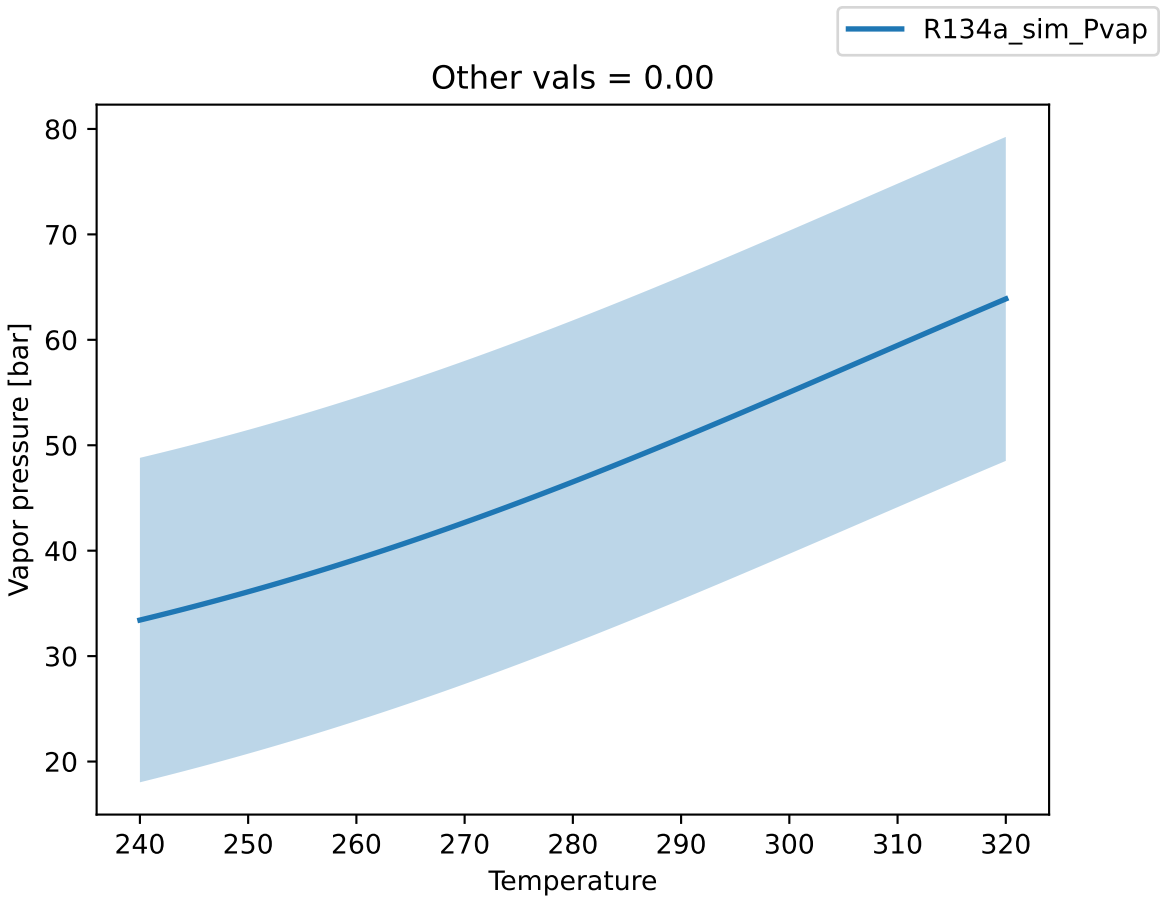

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320

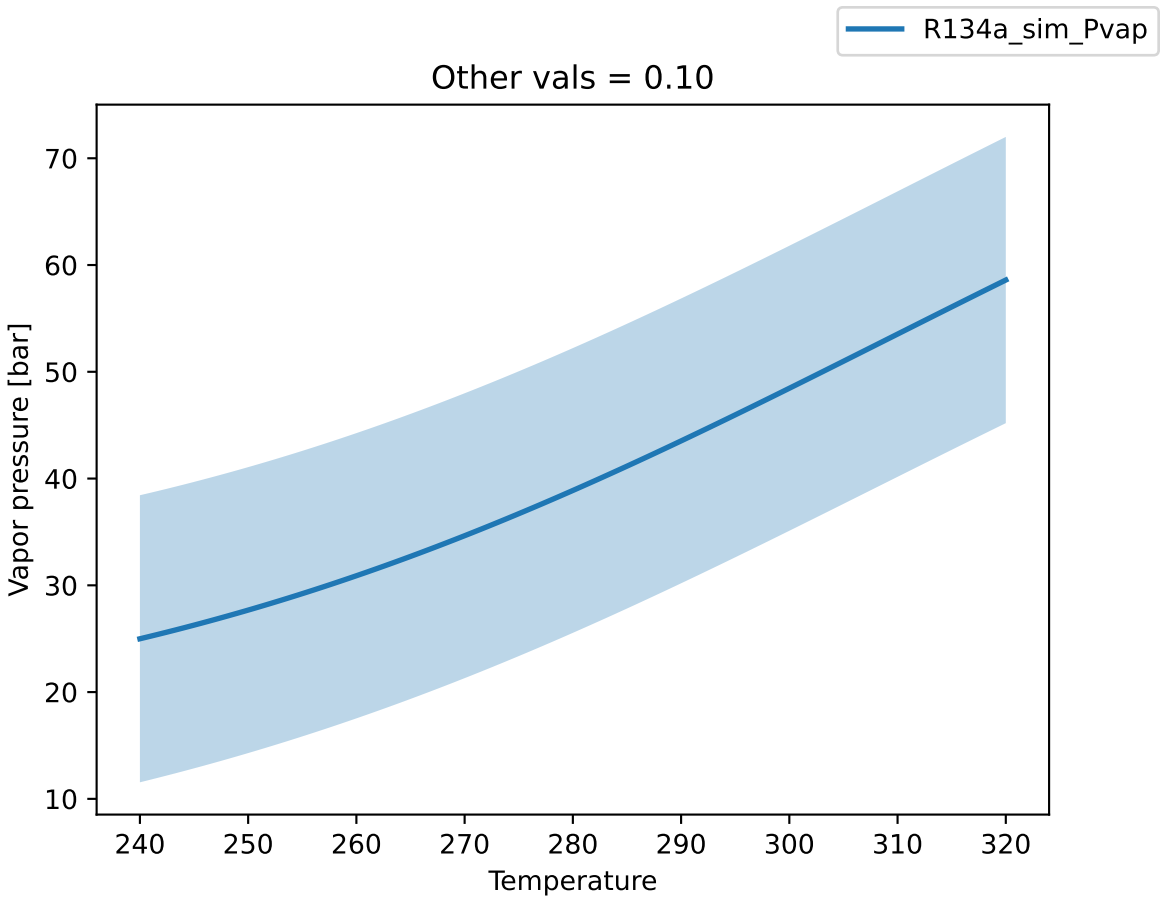

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320

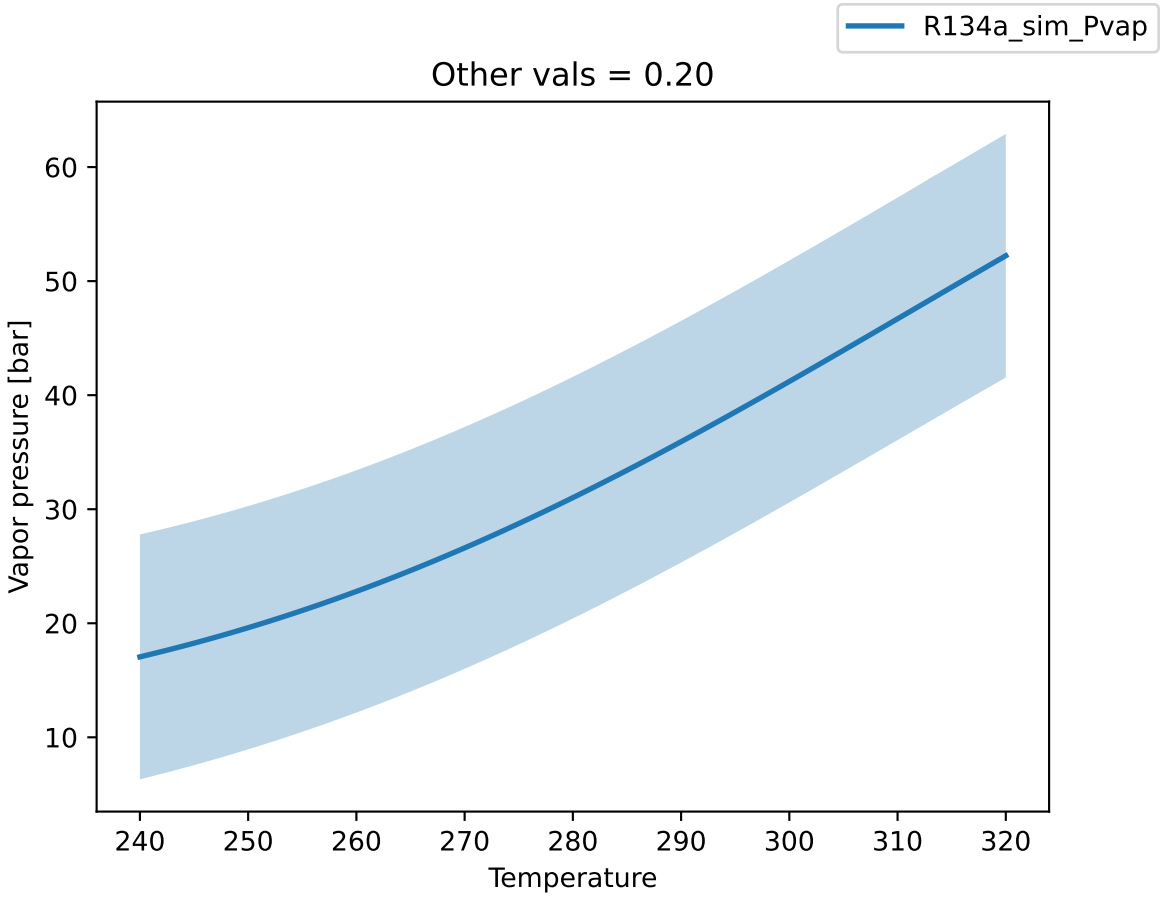

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
Temperature
0
10
20
30
40
50
60
240
250
260
270
280
290
300
310
320

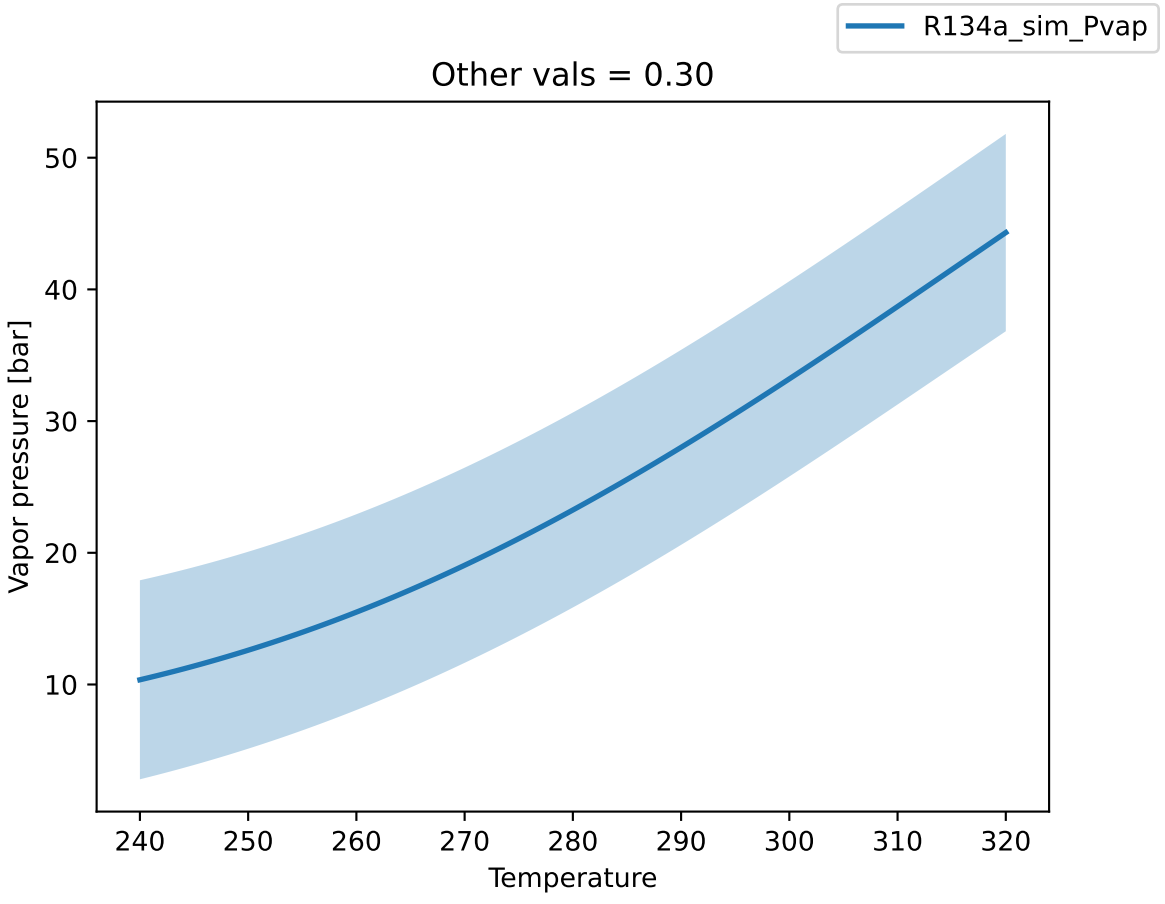

GP modelR134a_sim_vap_density
Train
Test
Vapor Density [kg/m^3]
0
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320
Temperature

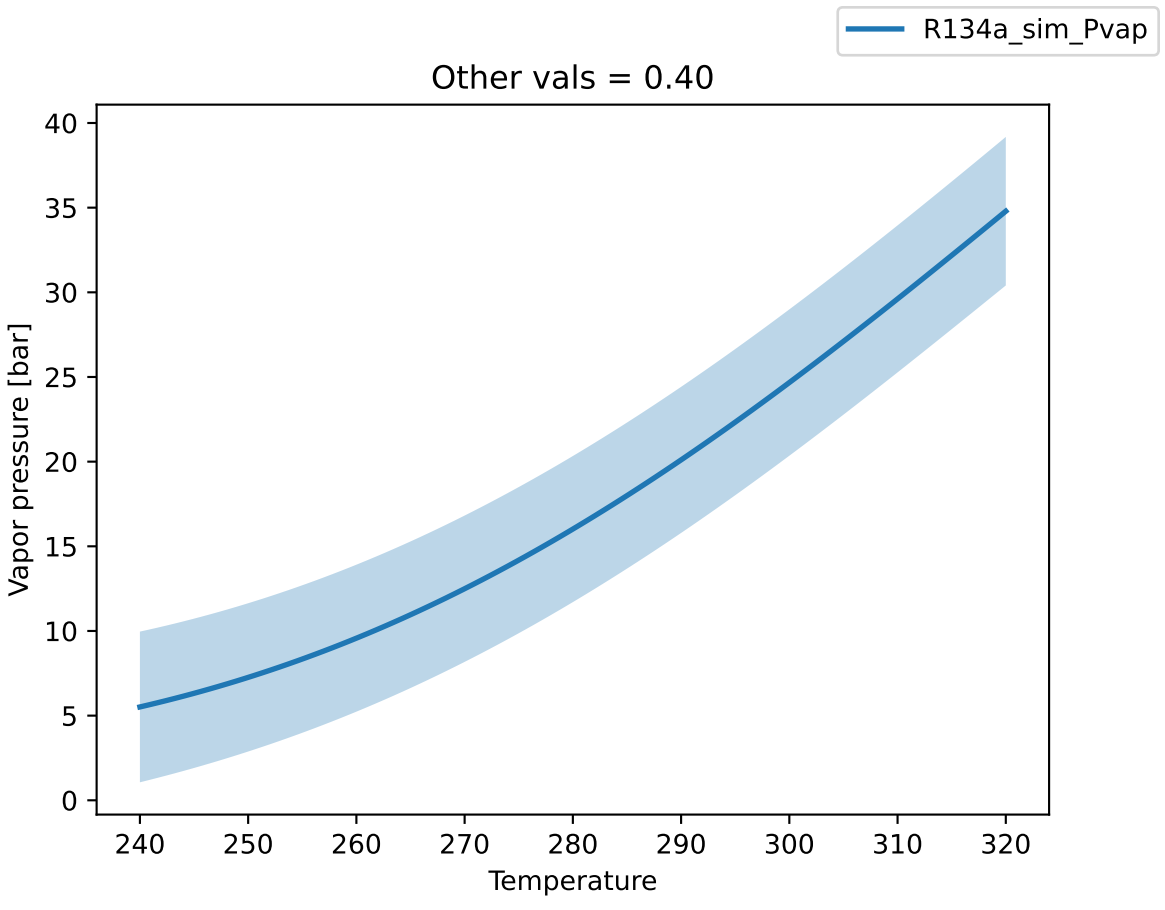

R134a_sim_Pvap
y=x
Model Prediction
Actual
2
4
6
8
10
12
14

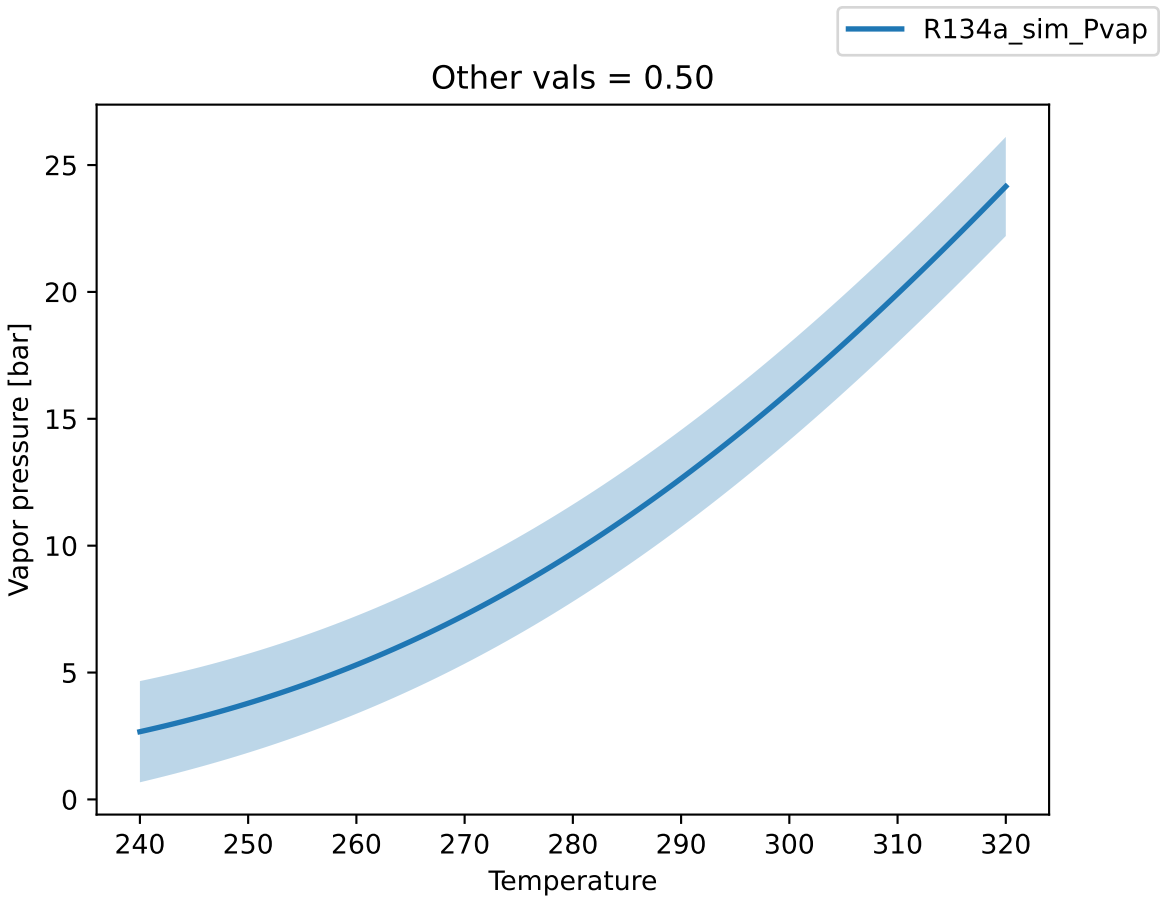

R134a_sim_Pvap
Other vals = 0.00
Vapor pressure [bar]
80
70
60
50
40
30
20
240
250
260
270
280
290
300
310
320
Temperature

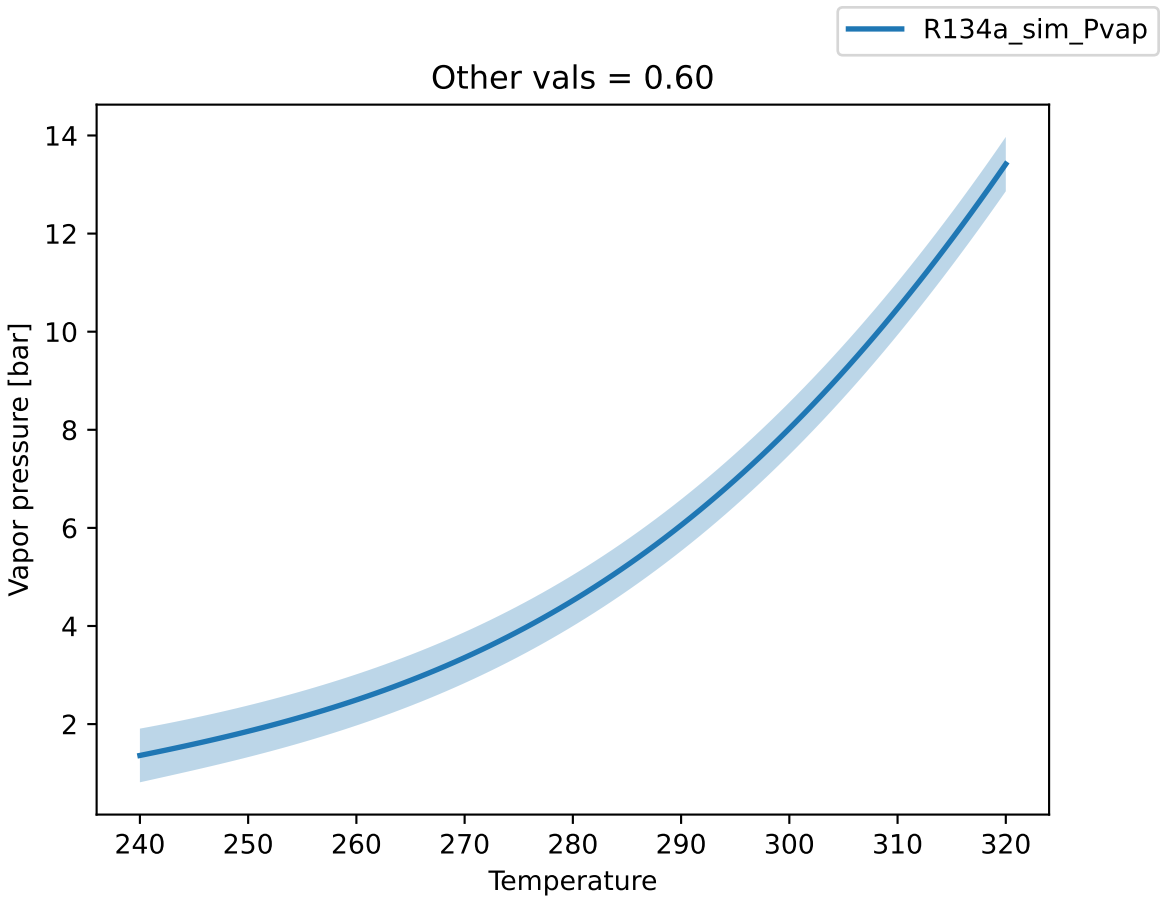

R134a_sim_Pvap
Other vals = 0.10
Vapor pressure [bar]
Temperature
10
20
30
40
50
60
70
240
250
260
270
280
290
300
310
320

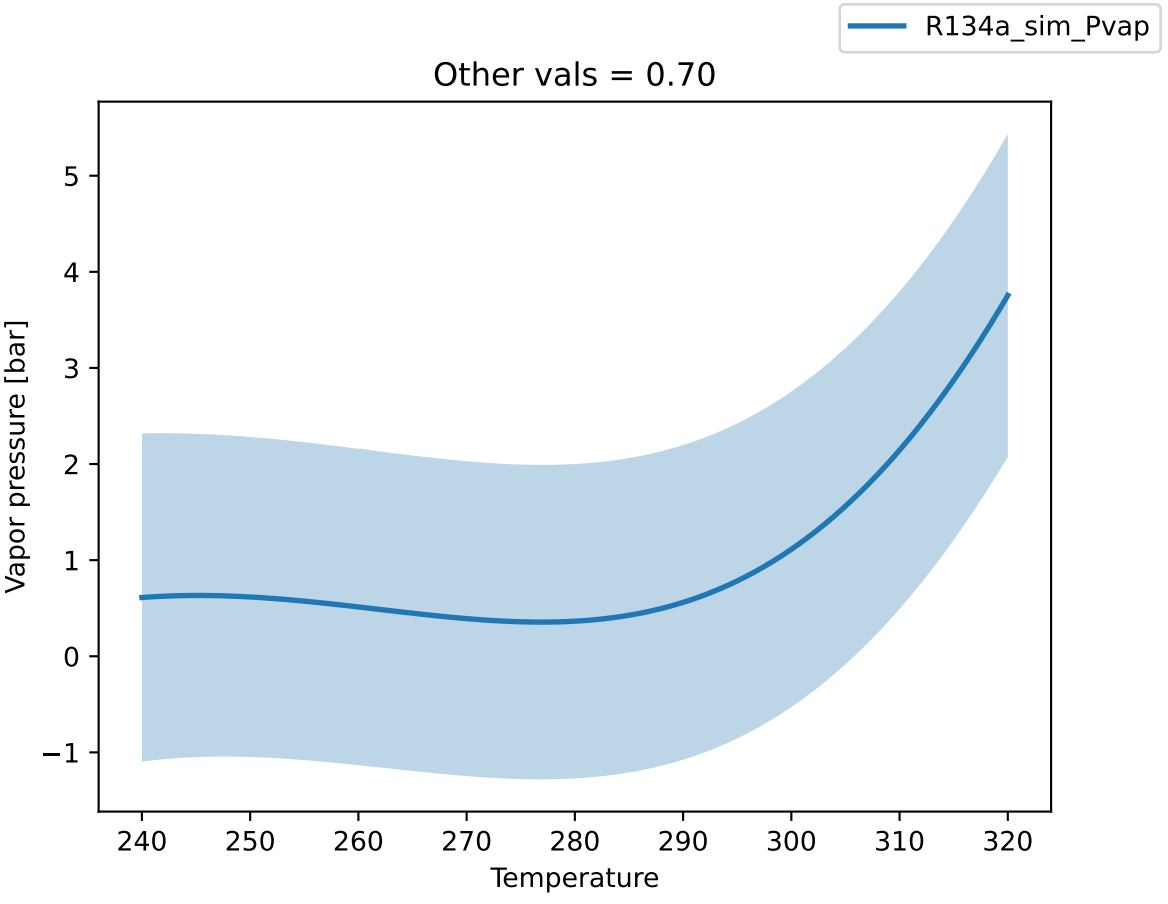

R134a_sim_Pvap
Other vals = 0.20
Vapor pressure [bar]
60
50
40
30
20
10
240
250
260
270
280
290
300
310
320
Temperature

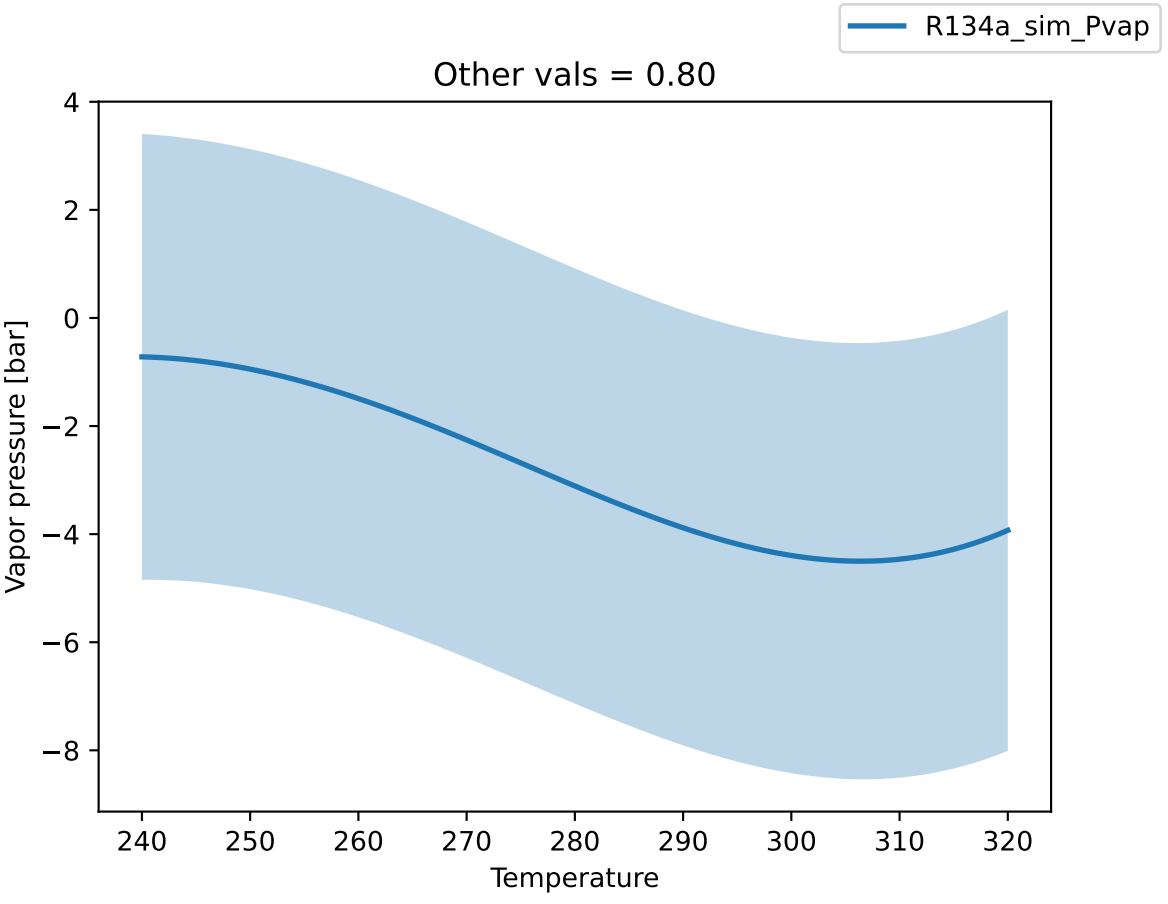

R134a_sim_Pvap
Other vals = 0.30
Vapor pressure [bar]
50
40
30
20
10
240
250
260
270
280
290
300
310
320
Temperature

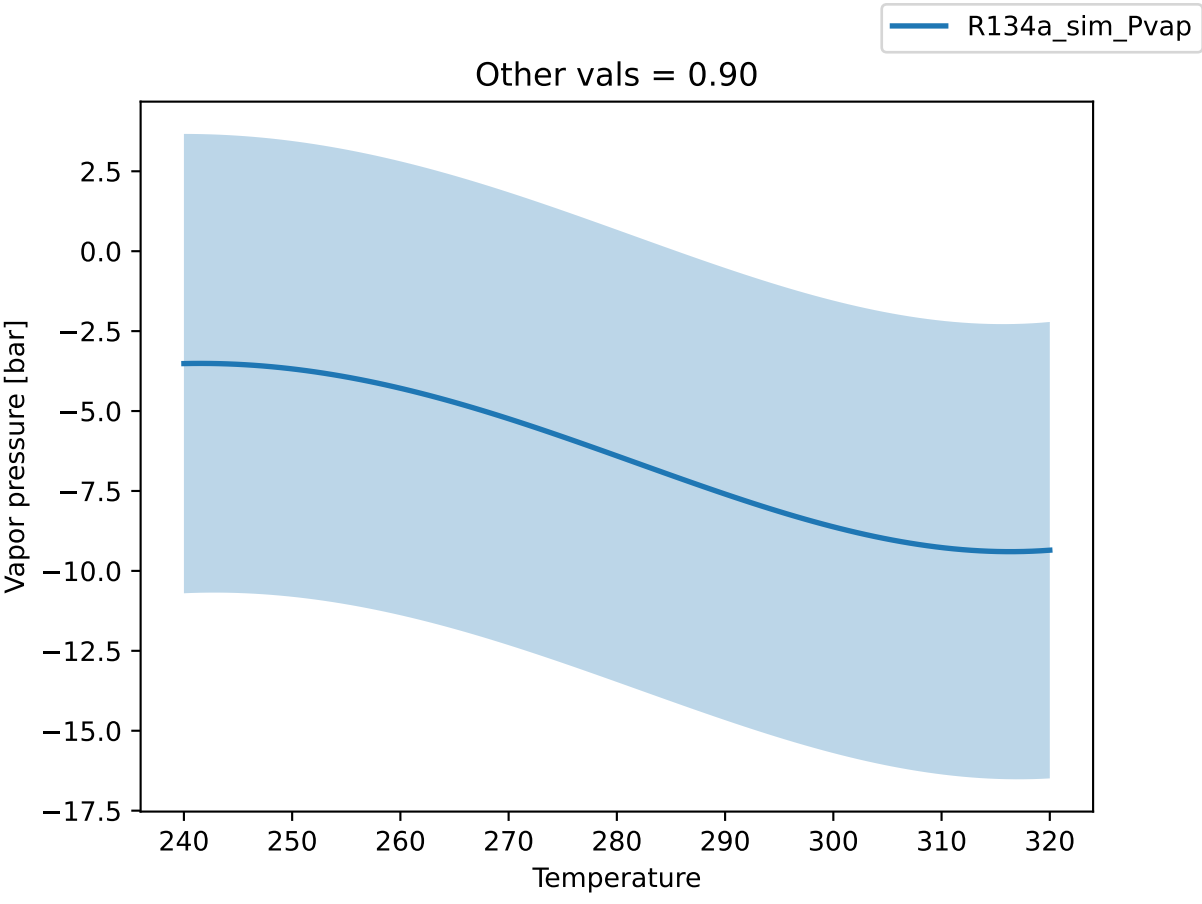

R134a_sim_Pvap
Other vals = 0.40
Vapor pressure [bar]
0
5
10
15
20
25
30
35
40
240
250
260
270
280
290
300
310
320
Temperature

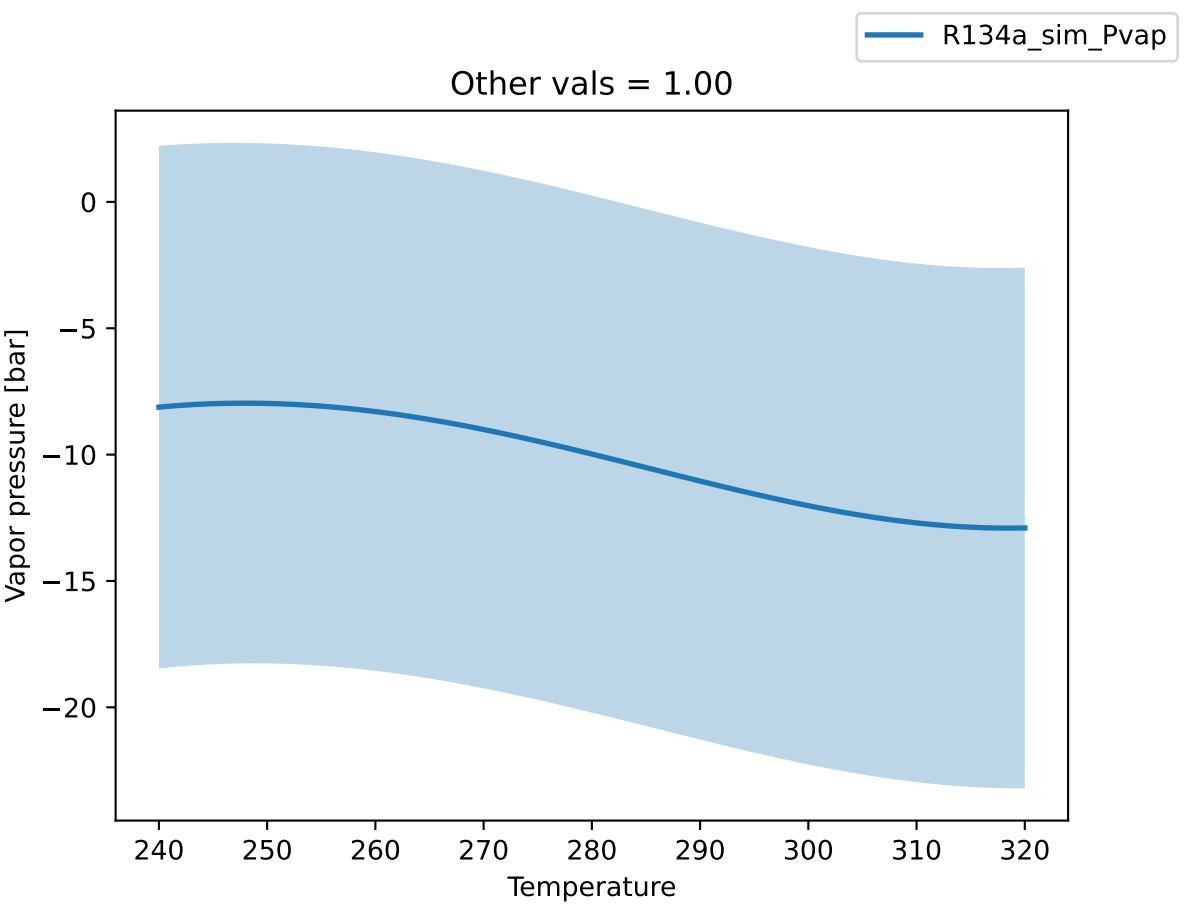

R134a_sim_Pvap
Other vals = 0.50
Vapor pressure [bar]
0
5
10
15
20
25
240
250
260
270
280
290
300
310
320
Temperature

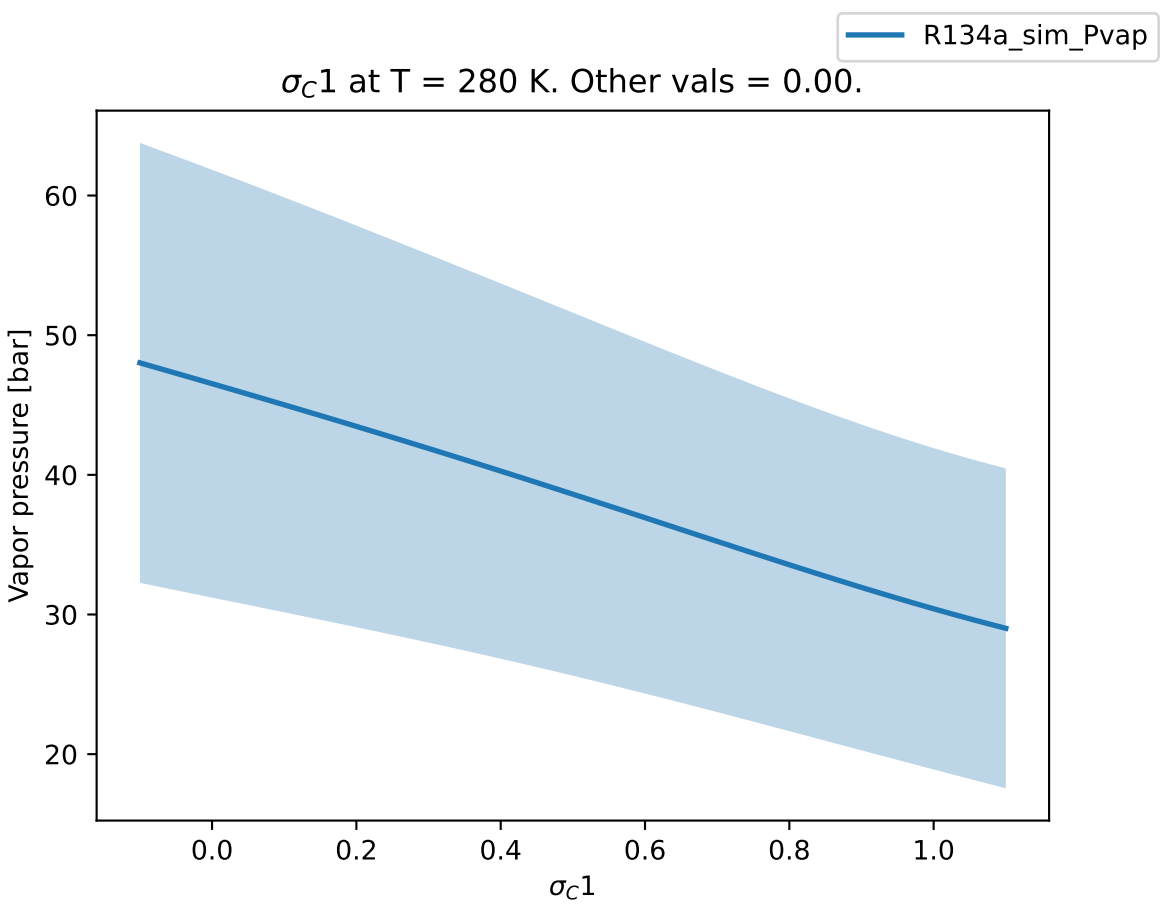

R134a_sim_Pvap
Other vals = 0.60
Vapor pressure [bar]
Temperature
14
12
10
8
6
4
2
240
250
260
270
280
290
300
310
320

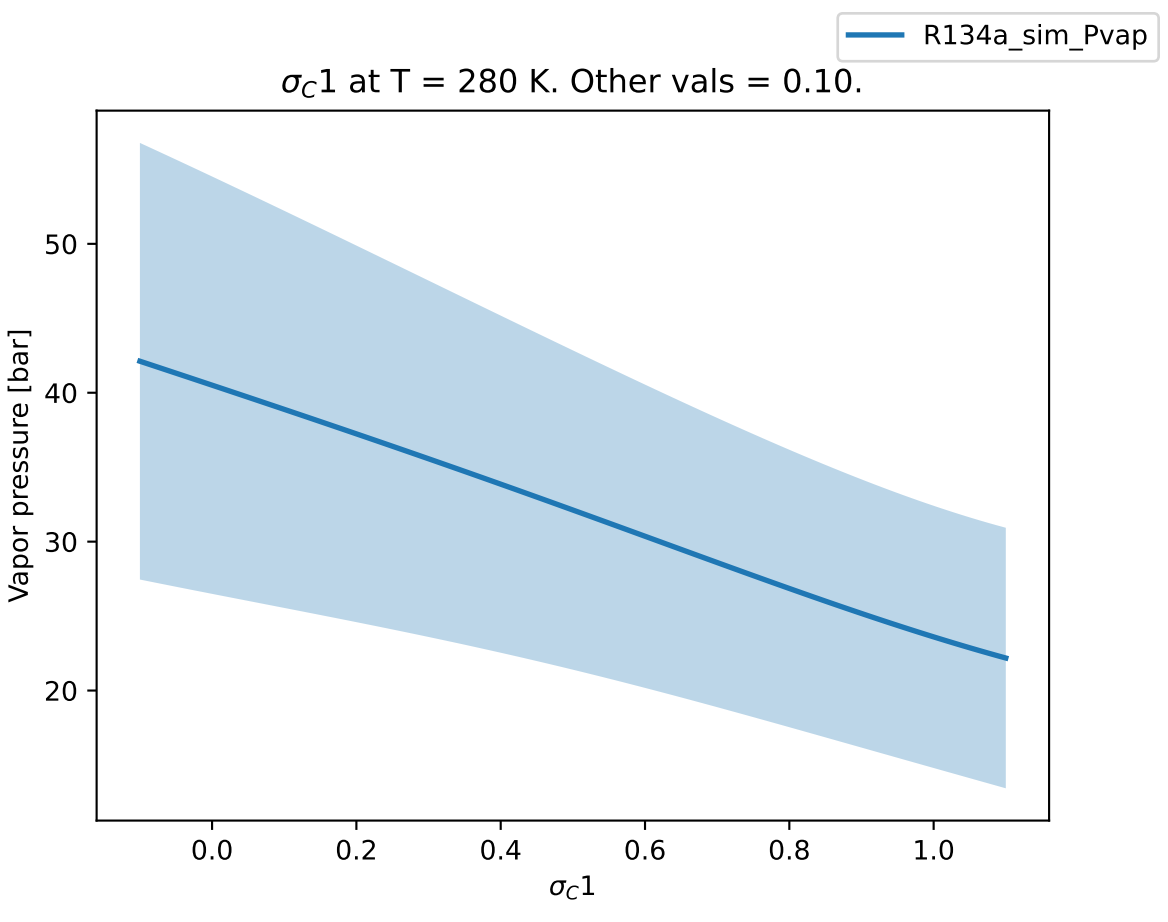

R134a_sim_Pvap
Other vals = 0.70
Vapor pressure [bar]
5
4
3
2
1
0
−1
240
250
260
270
280
290
300
310
320
Temperature

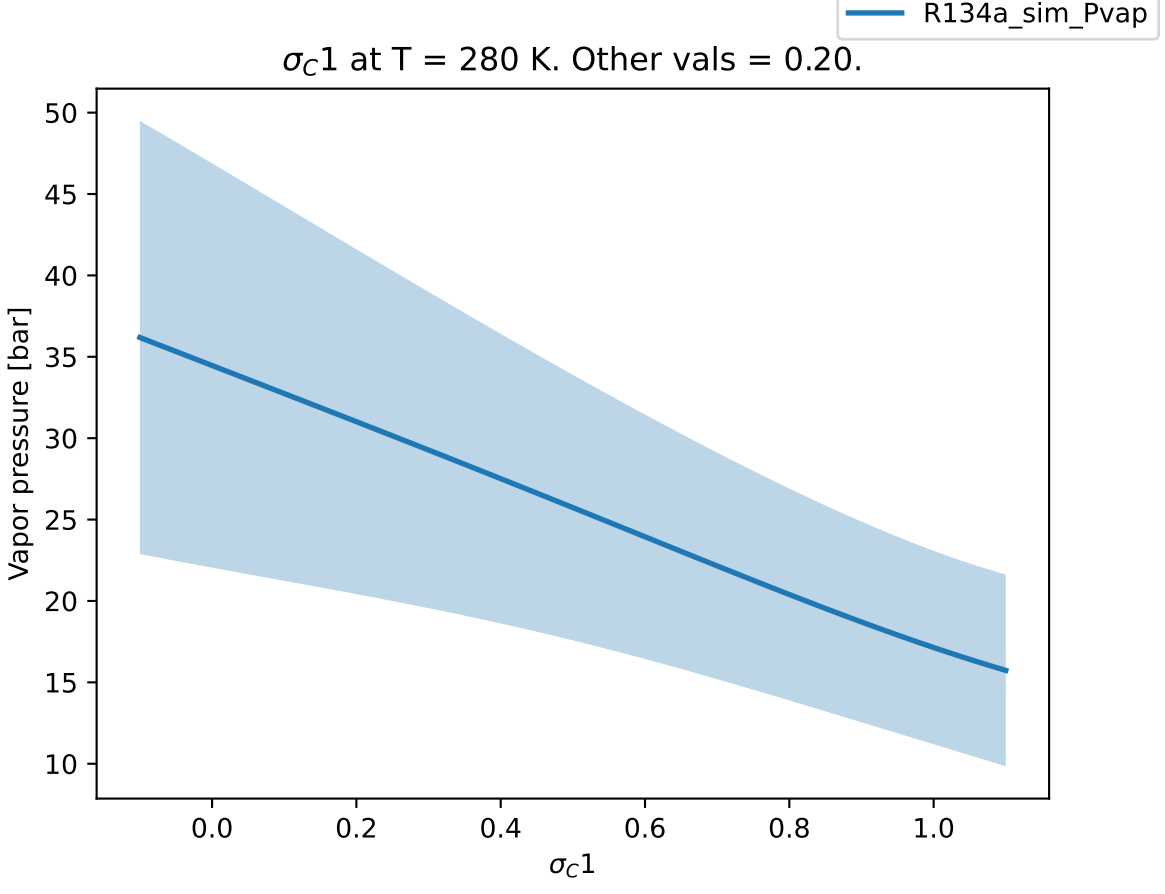

R134a_sim_Pvap
Other vals = 0.80
Vapor pressure [bar]
Temperature
4
2
0
−2
−4
−6
−8
240
250
260
270
280
290
300
310
320

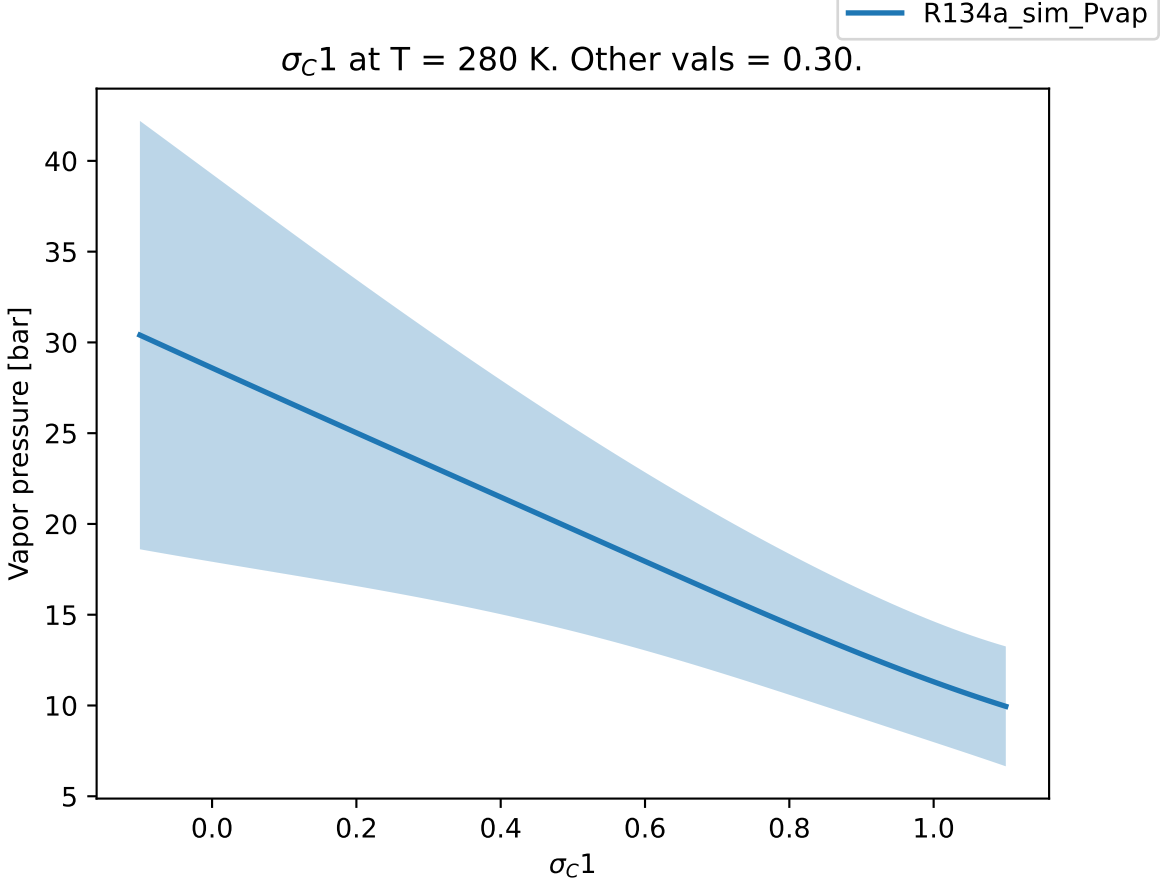

R134a_sim_Pvap
Other vals = 0.90
Vapor pressure [bar]
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
−17.5
240
250
260
270
280
290
300
310
320
Temperature

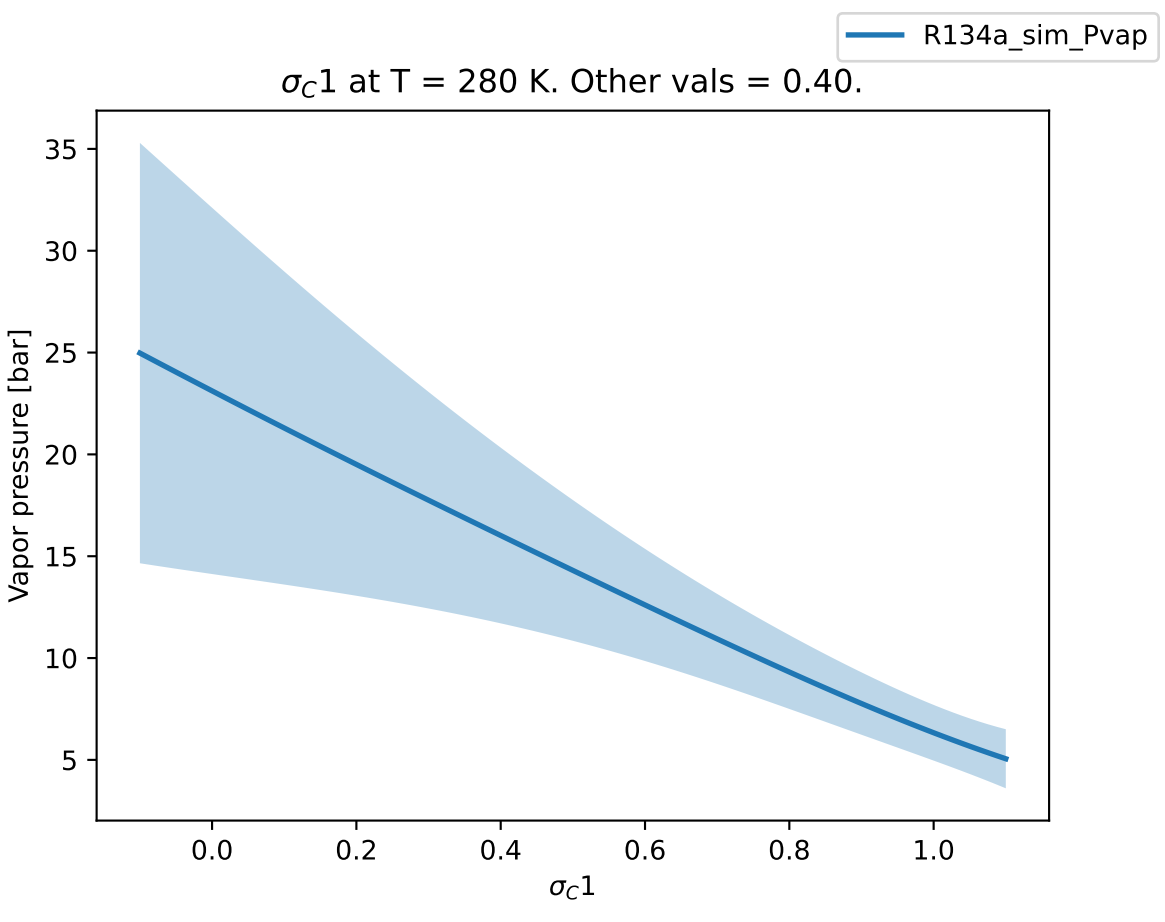

R134a_sim_Pvap
Other vals = 1.00
0
−5
−10
−15
−20
Vapor pressure [bar]
240
250
260
270
280
290
300
310
320
Temperature

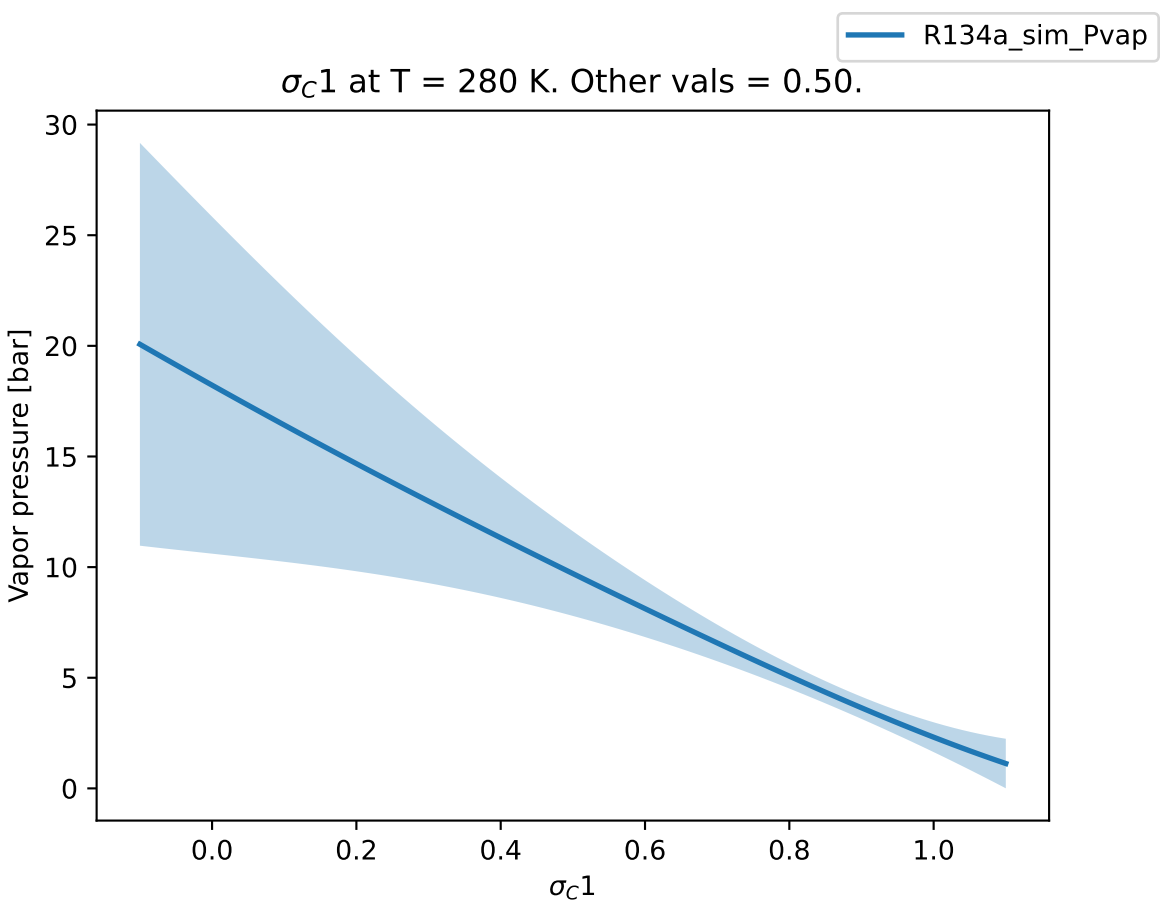

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

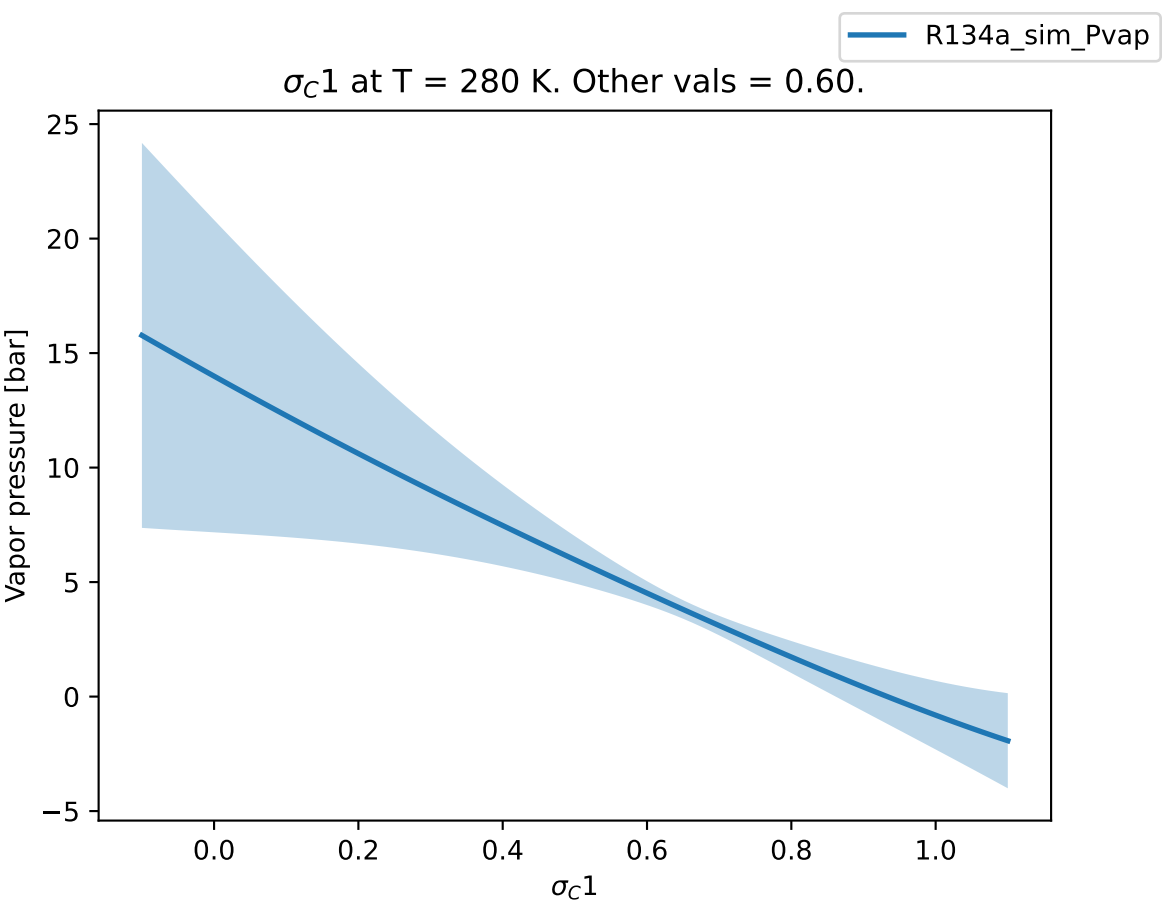

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

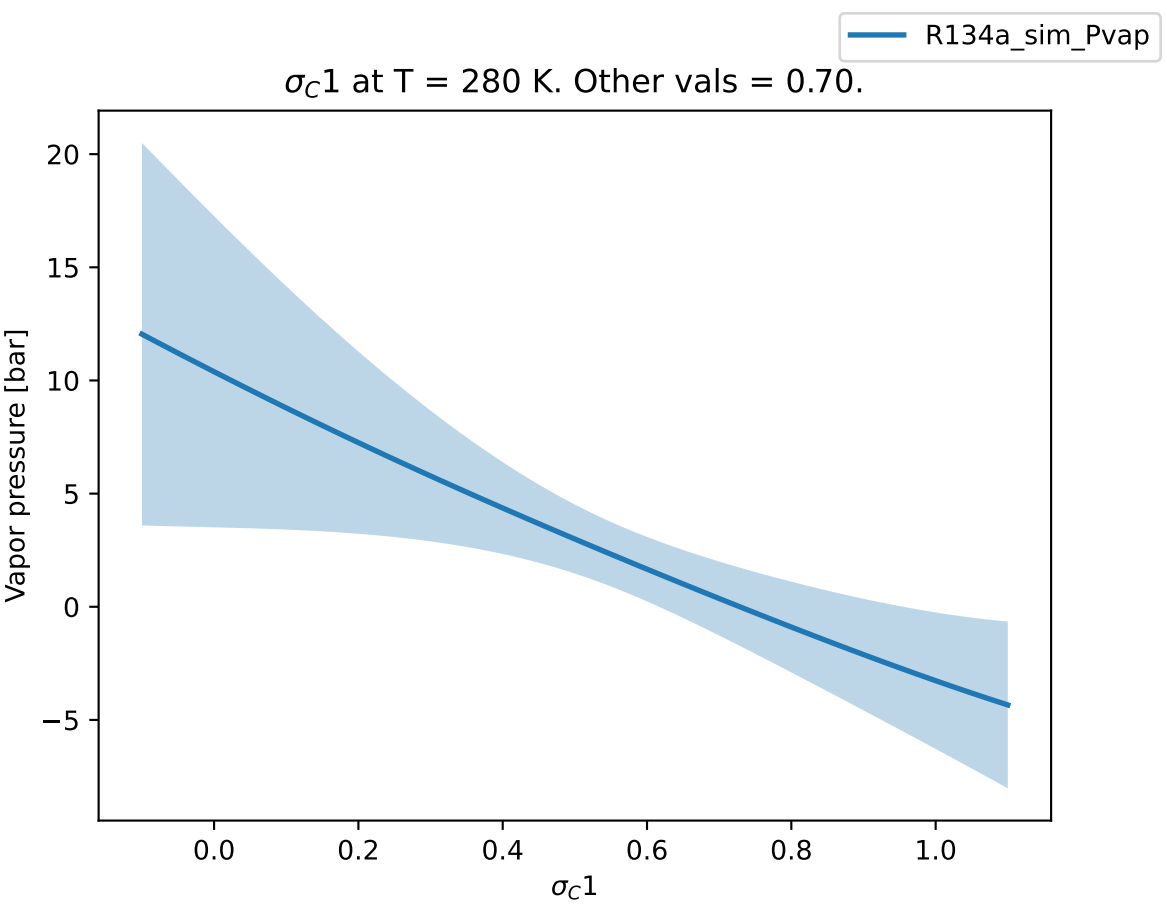

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
50
45
40
35
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

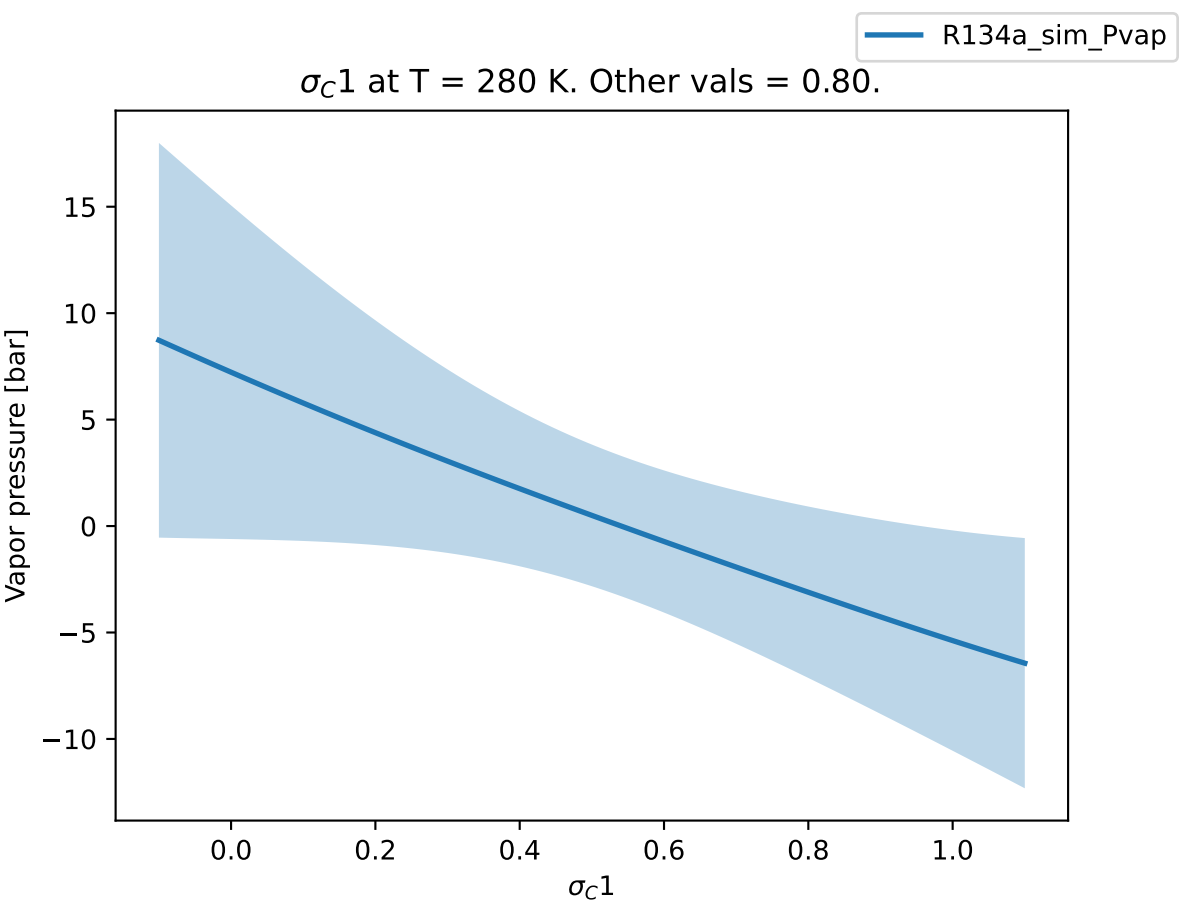

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
40
35
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

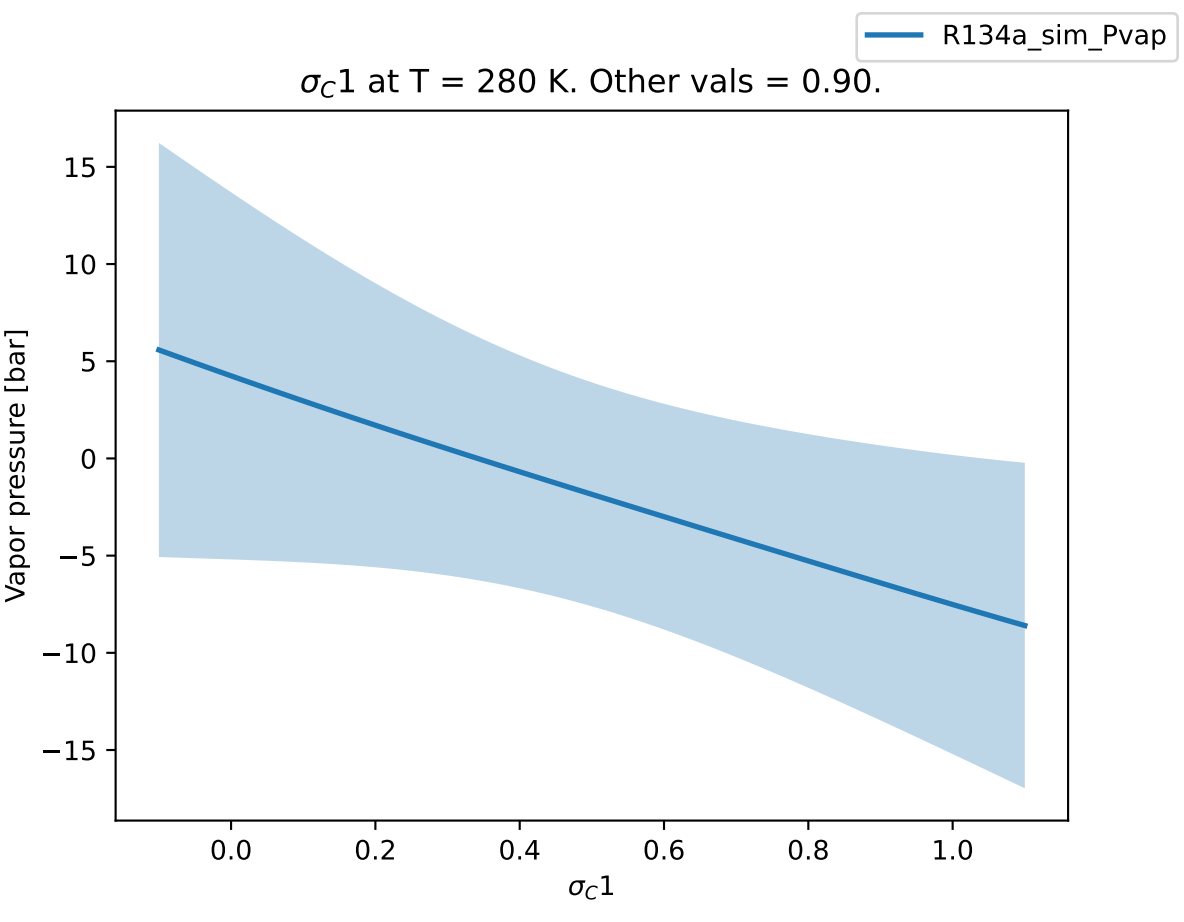

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
35
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

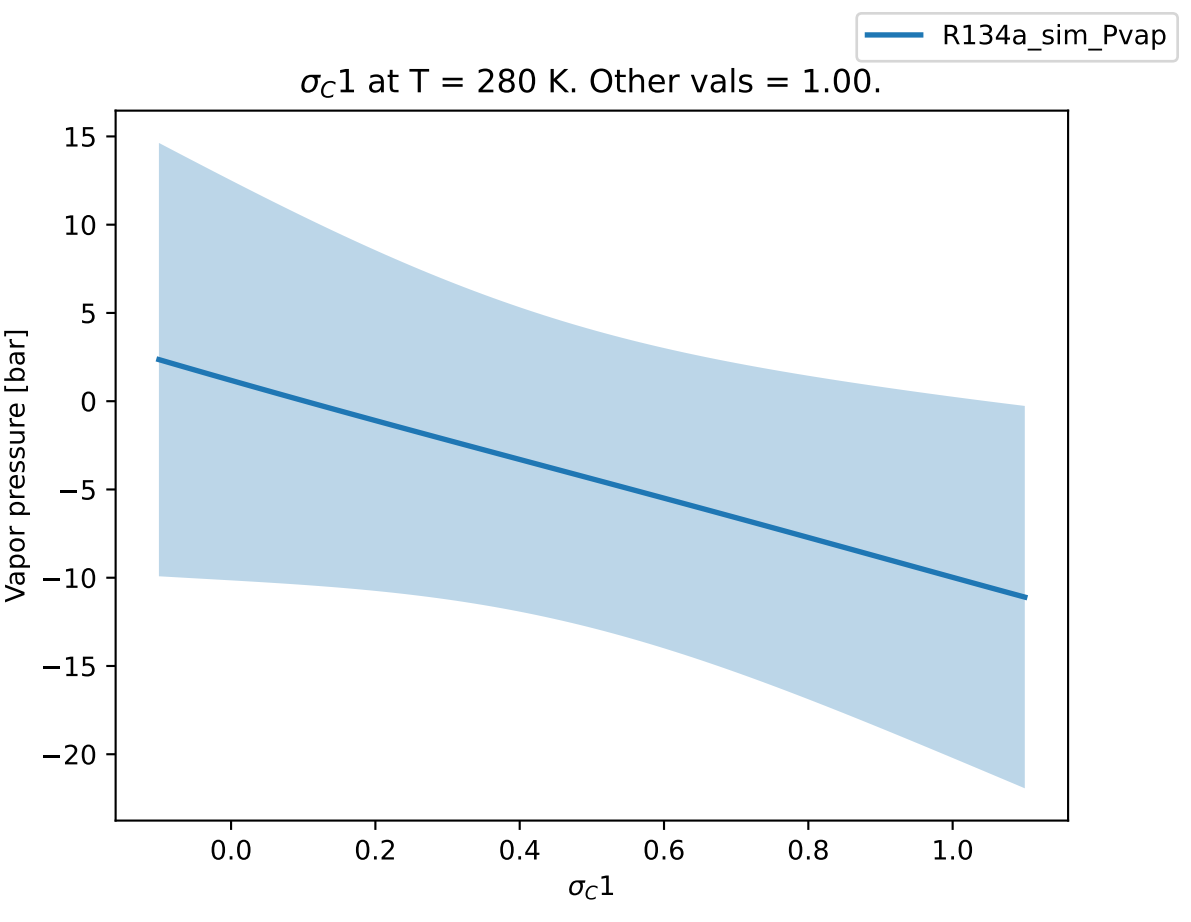

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
30
25
20
15
10
5
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

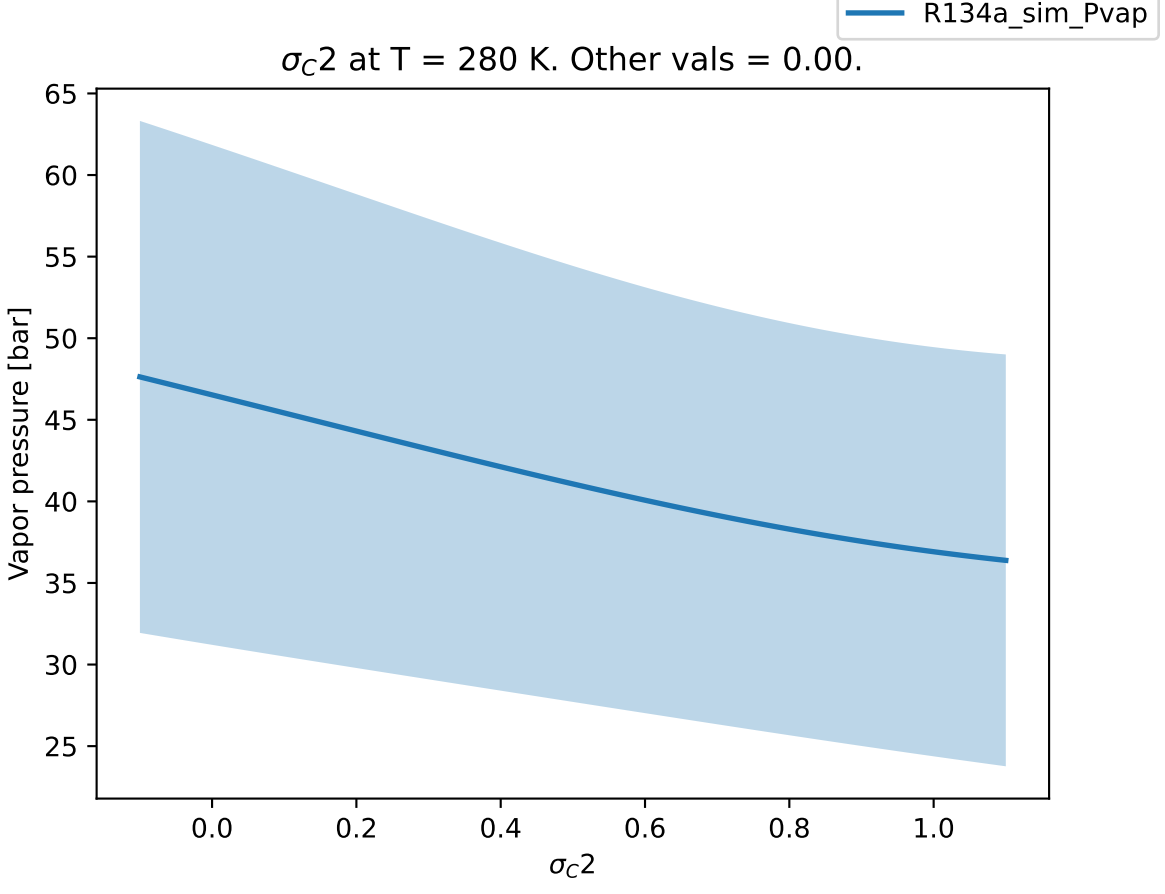

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
25
20
15
10
5
0
−5
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

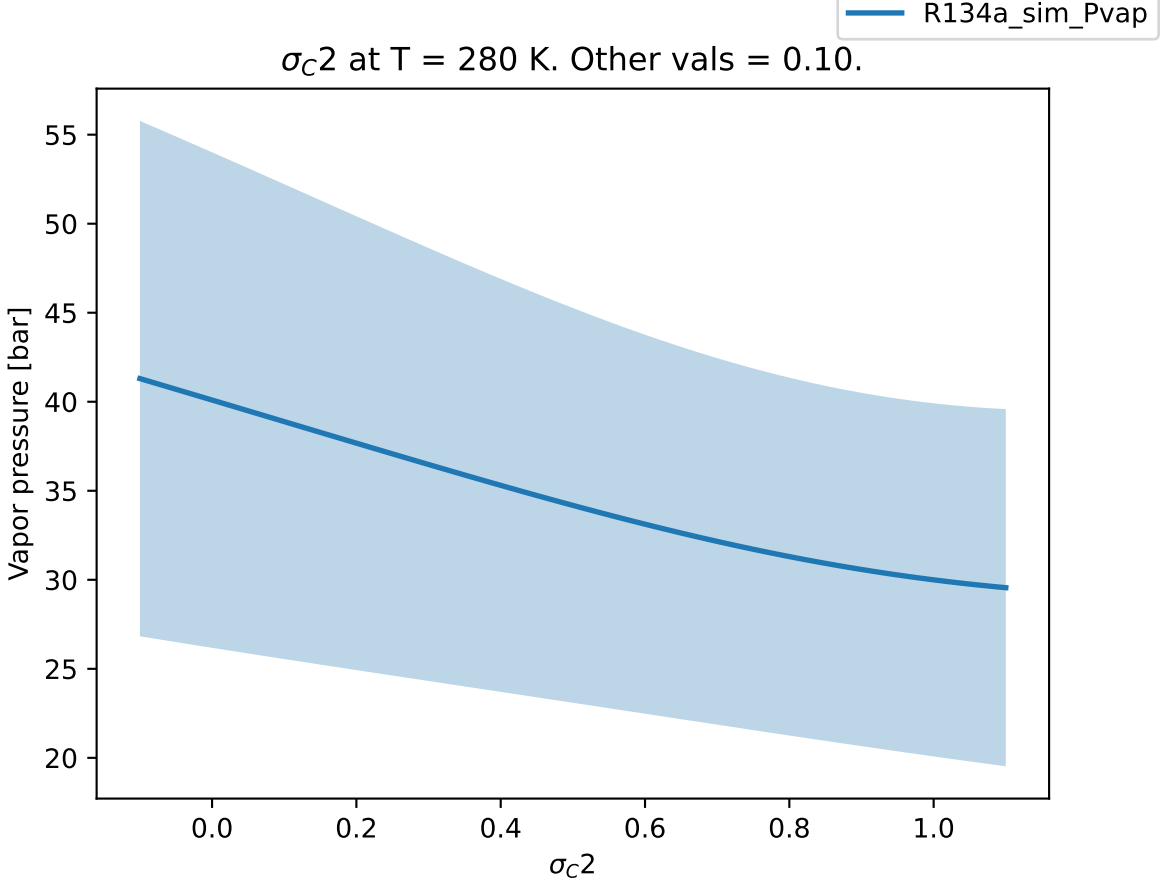

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
20
15
10
5
0
−5
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

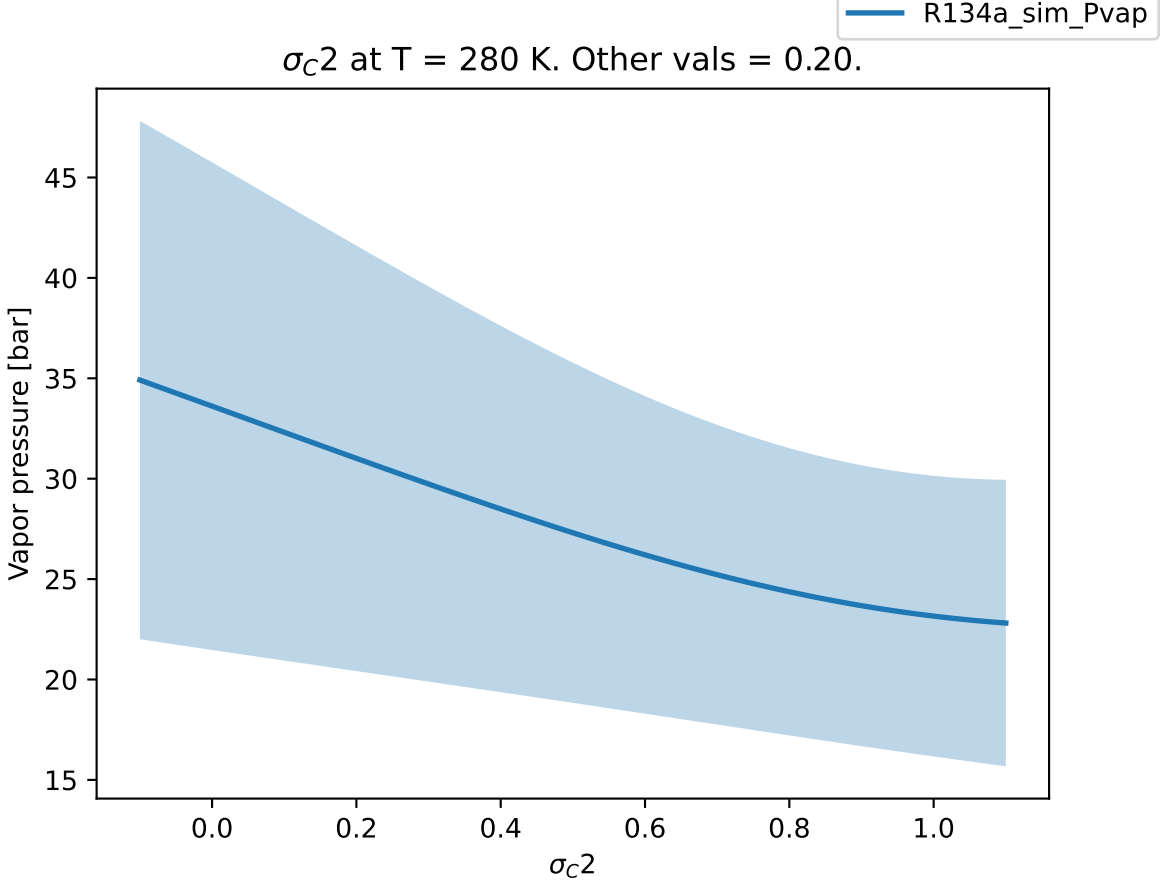

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
15
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

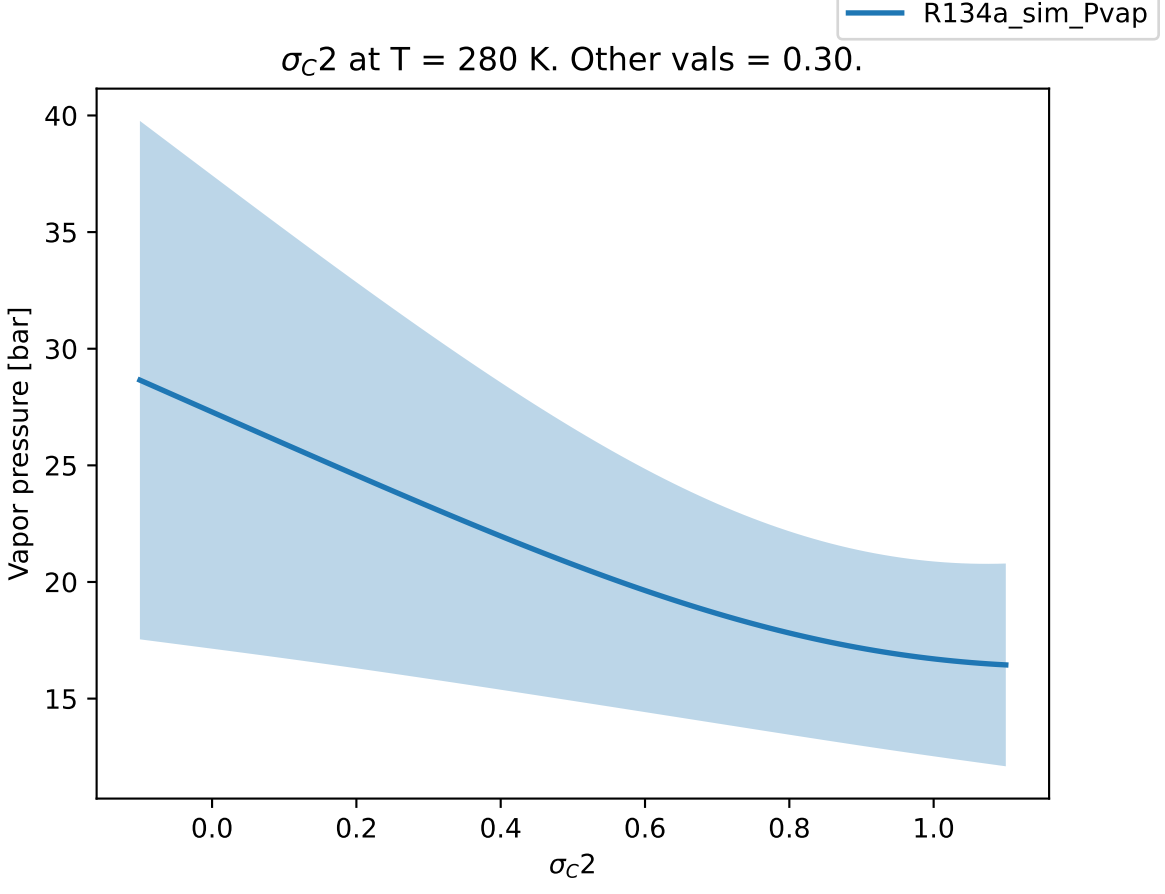

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
15
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

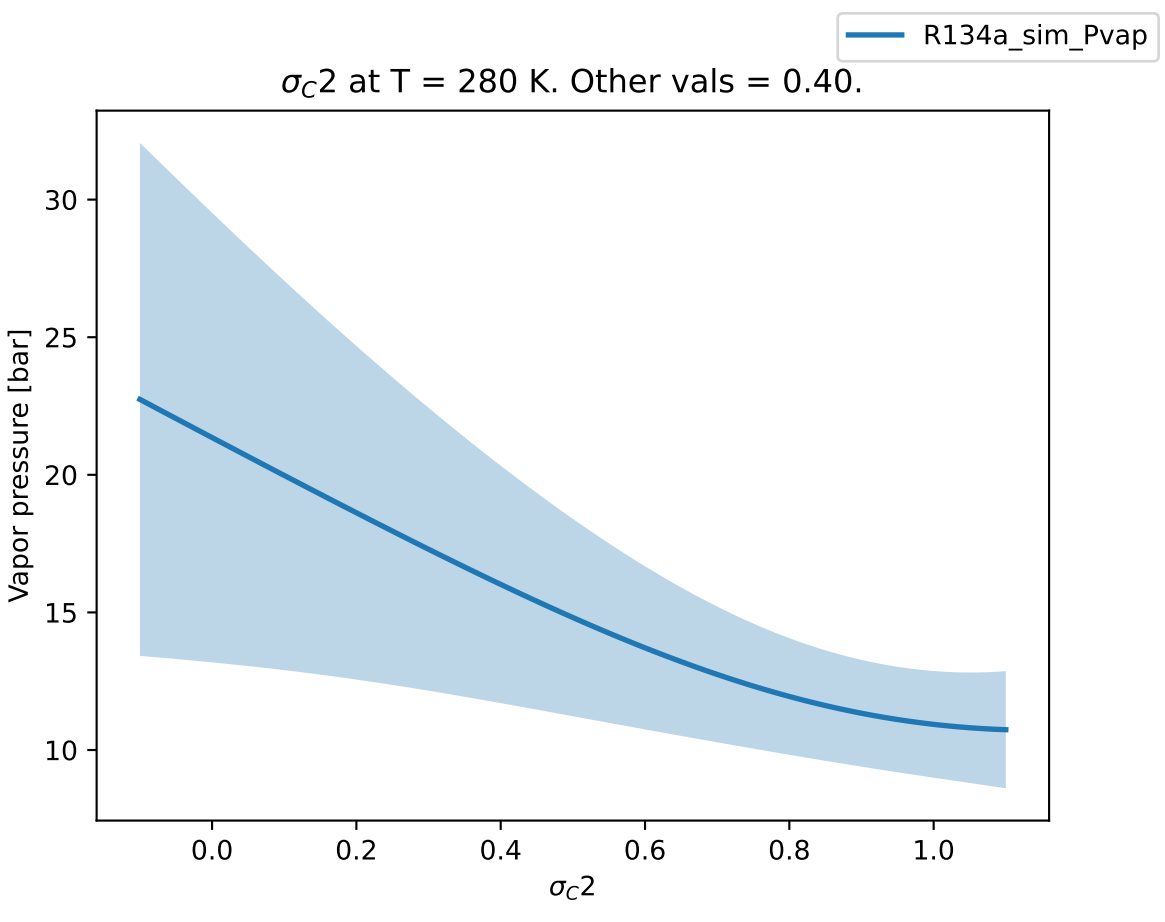

R134a_sim_Pvap
σ_C1 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
15
10
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

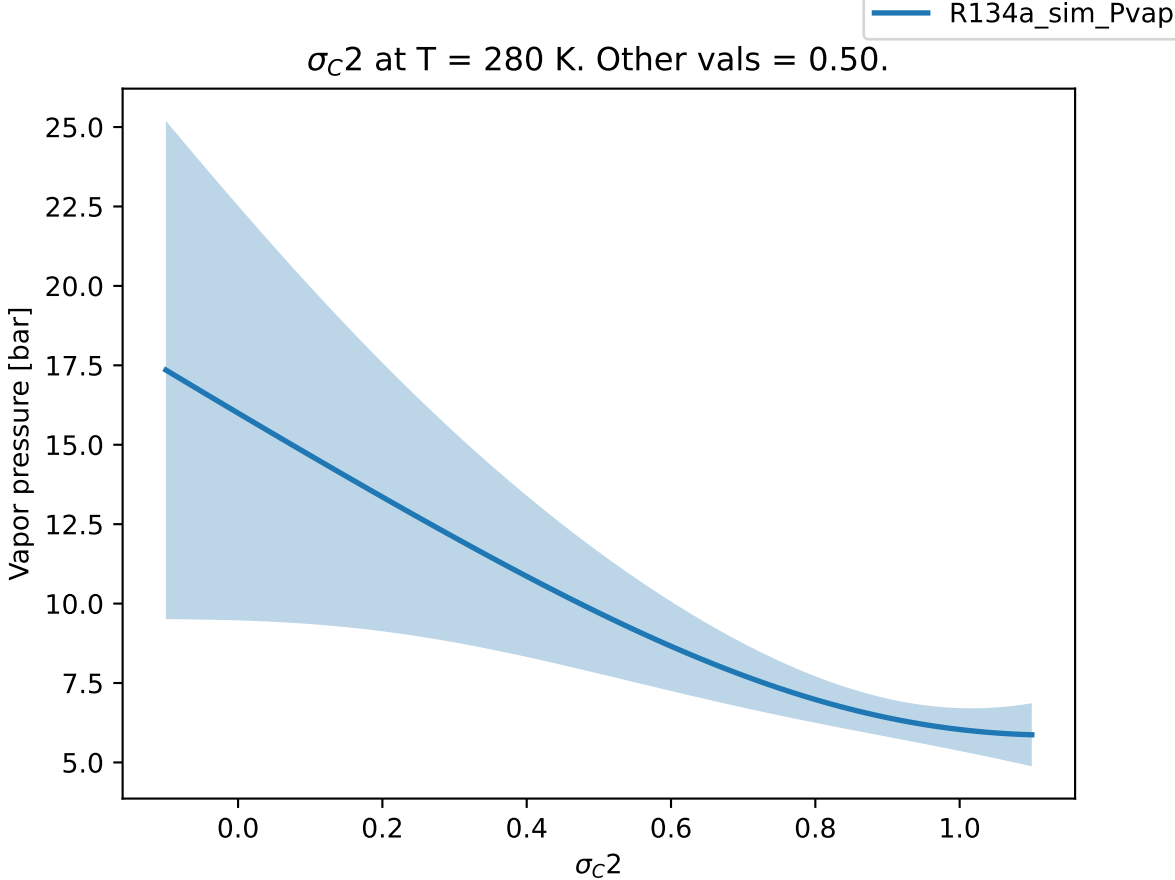

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
65
60
55
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

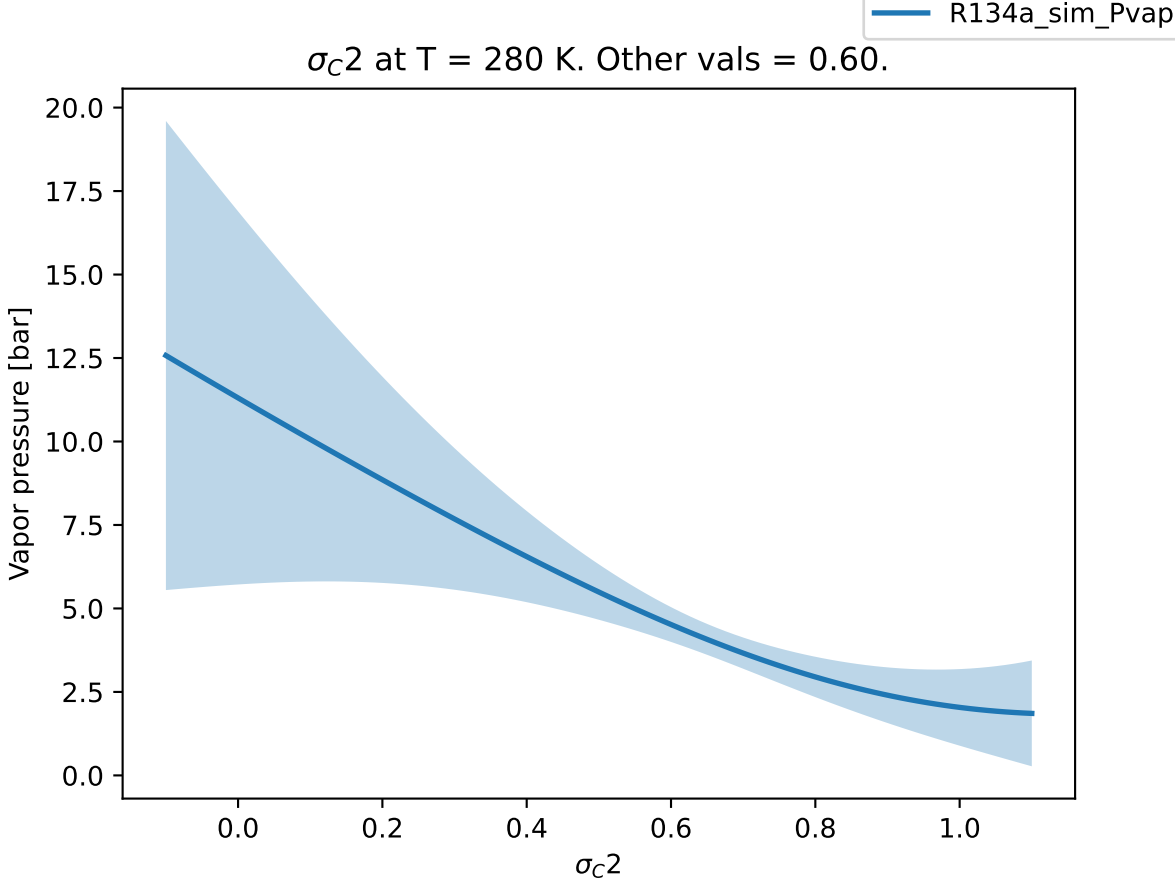

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
55
50
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

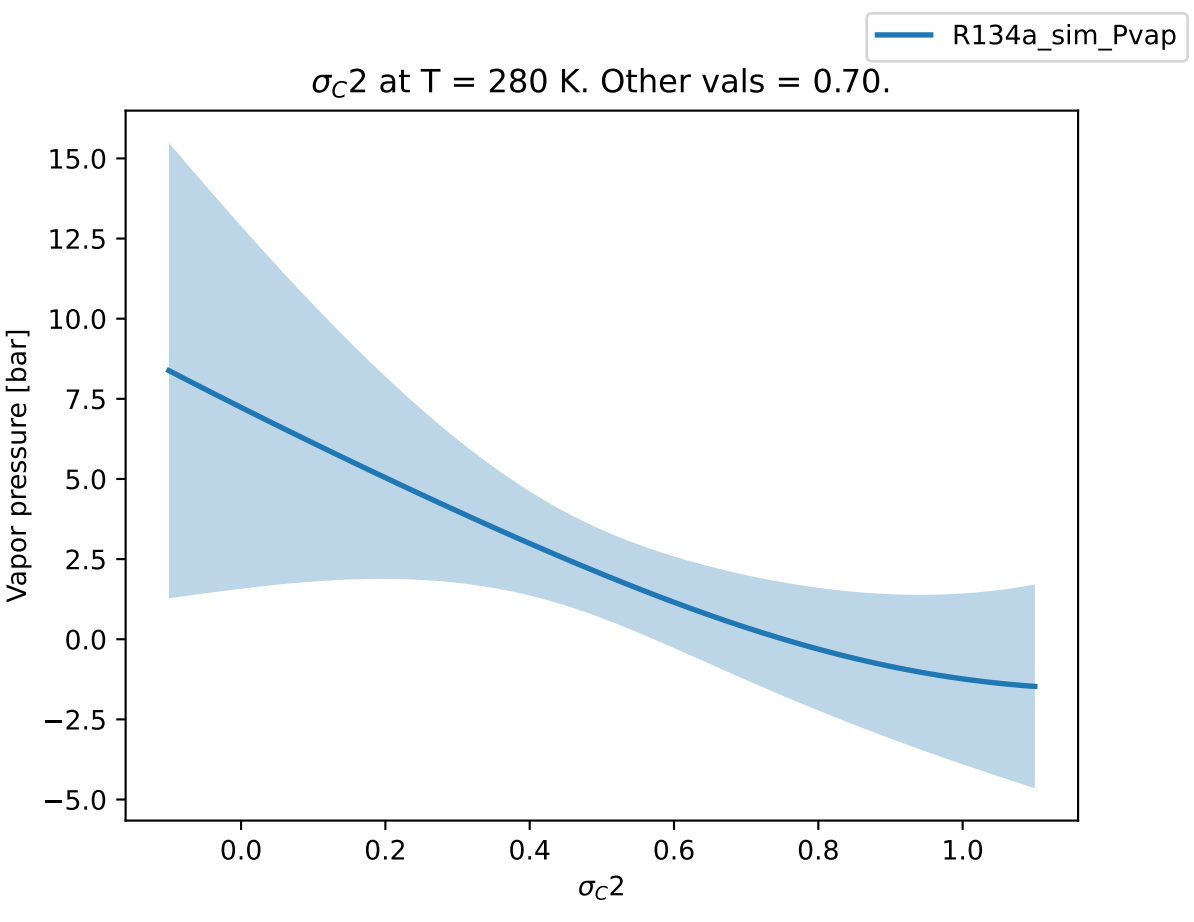

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

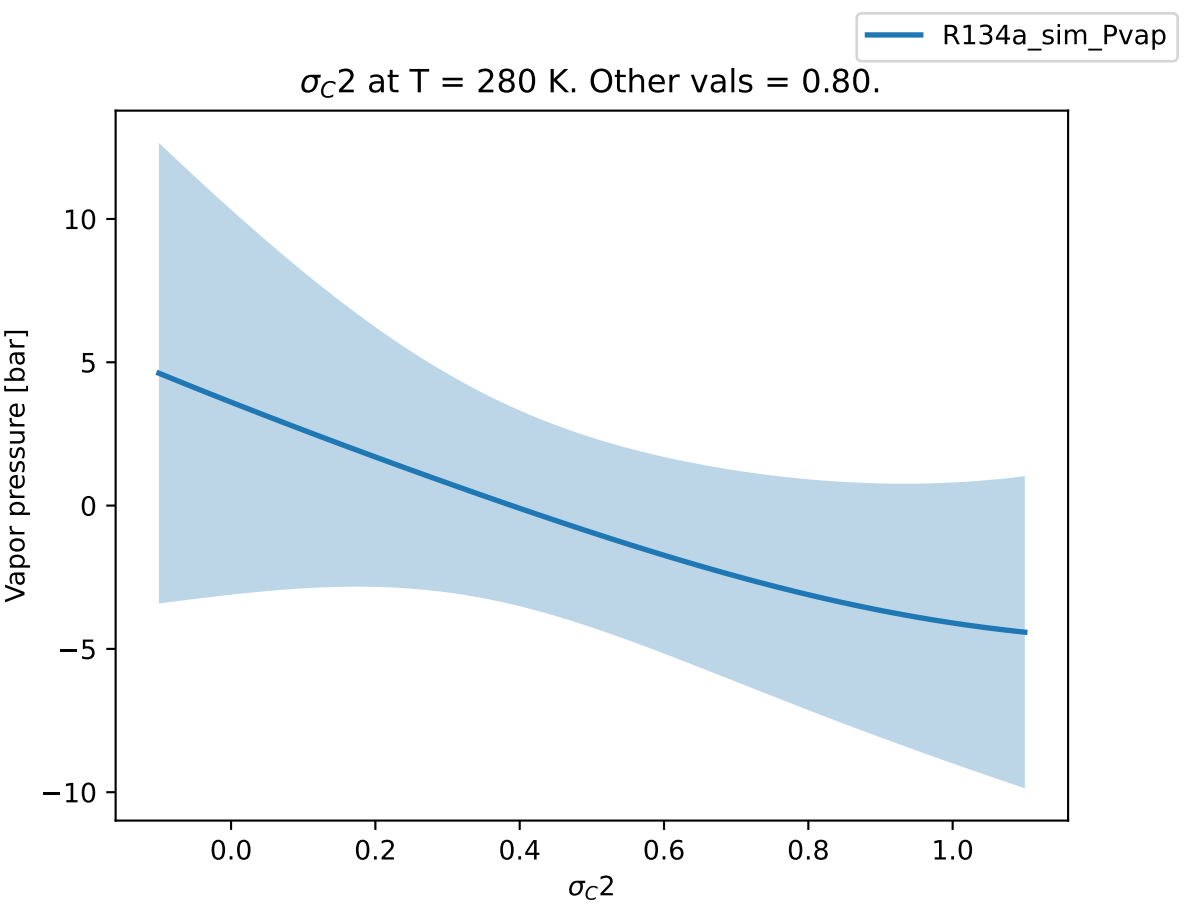

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

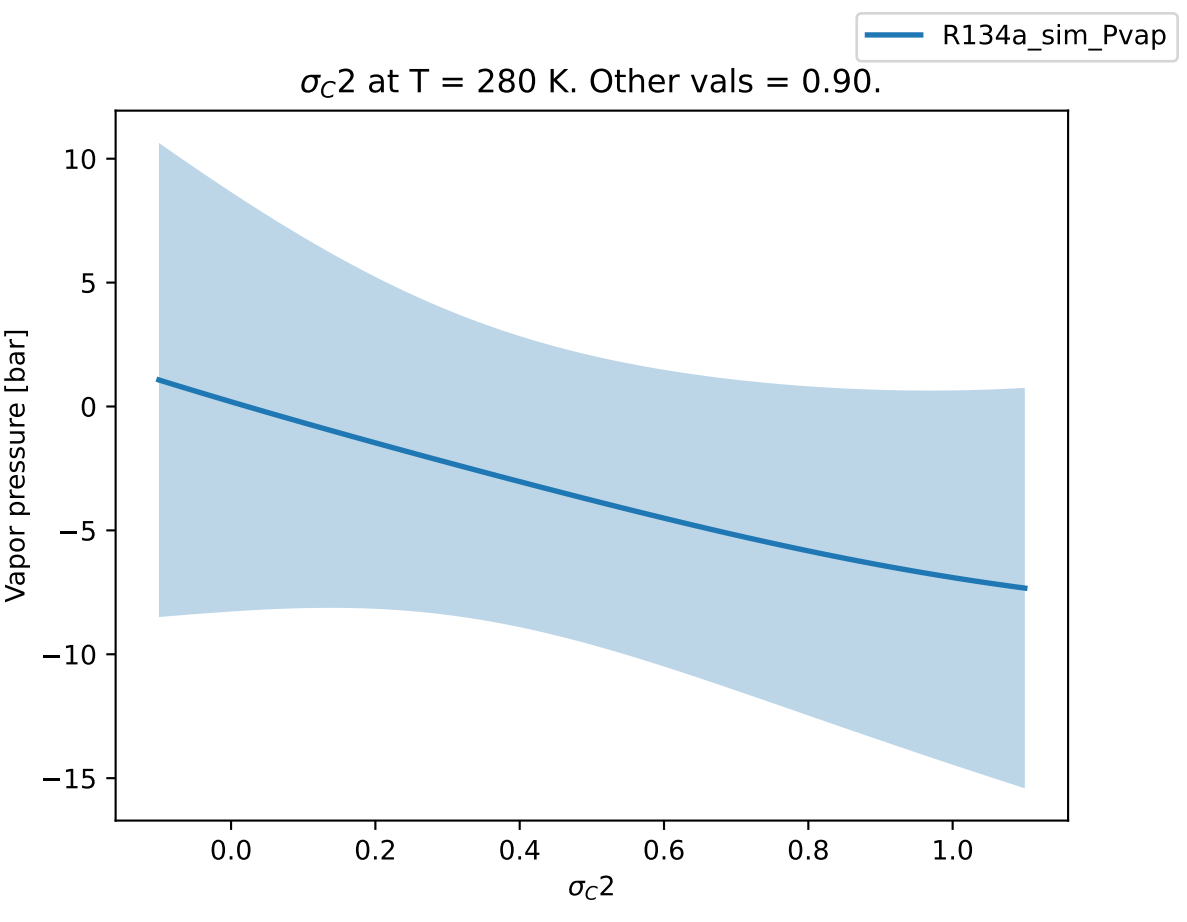

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

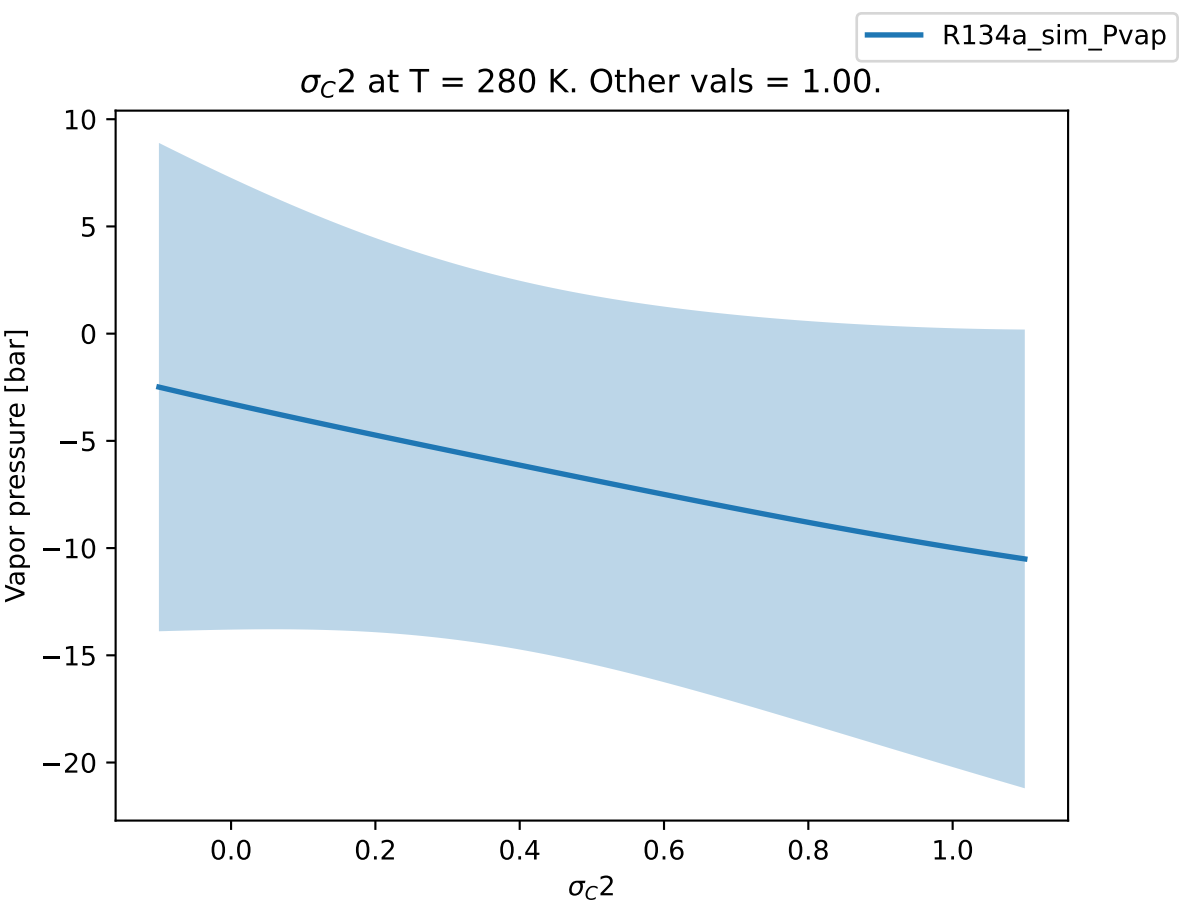

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

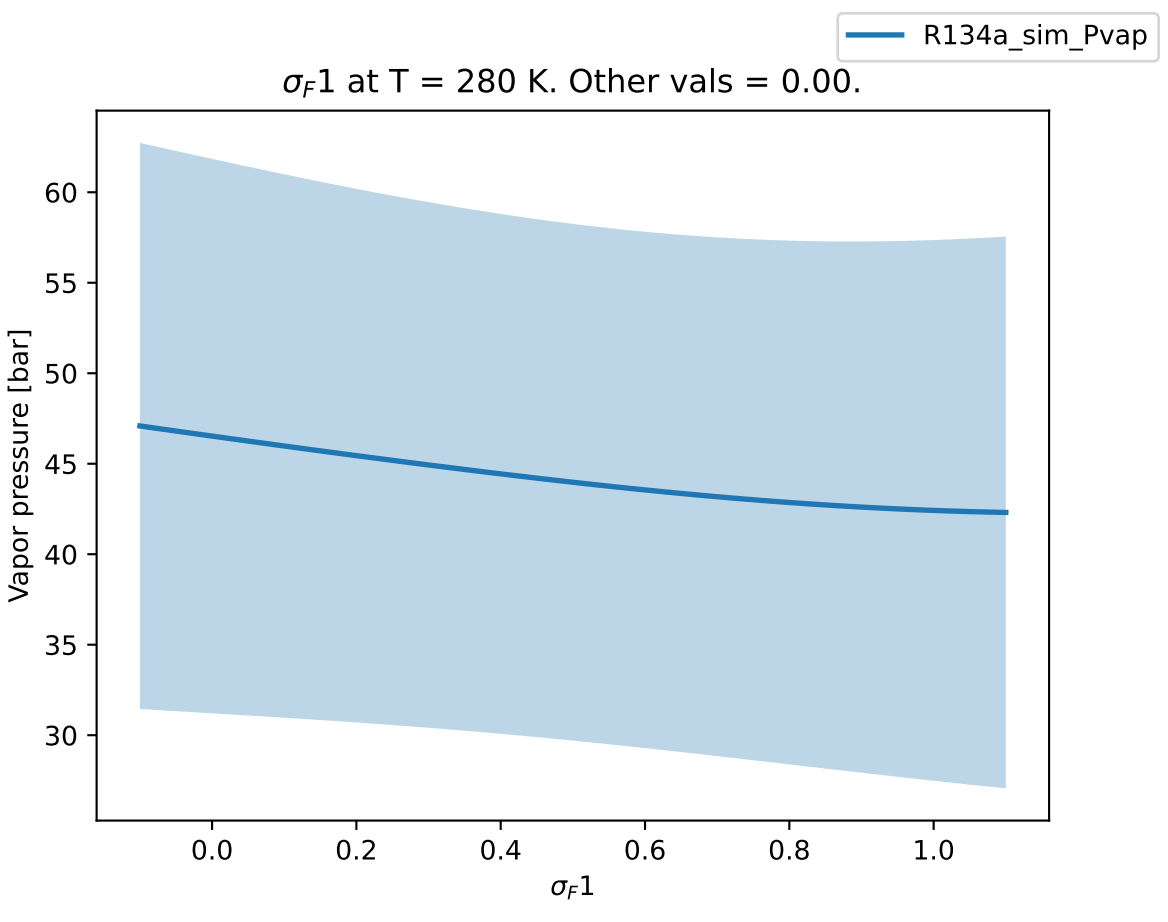

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

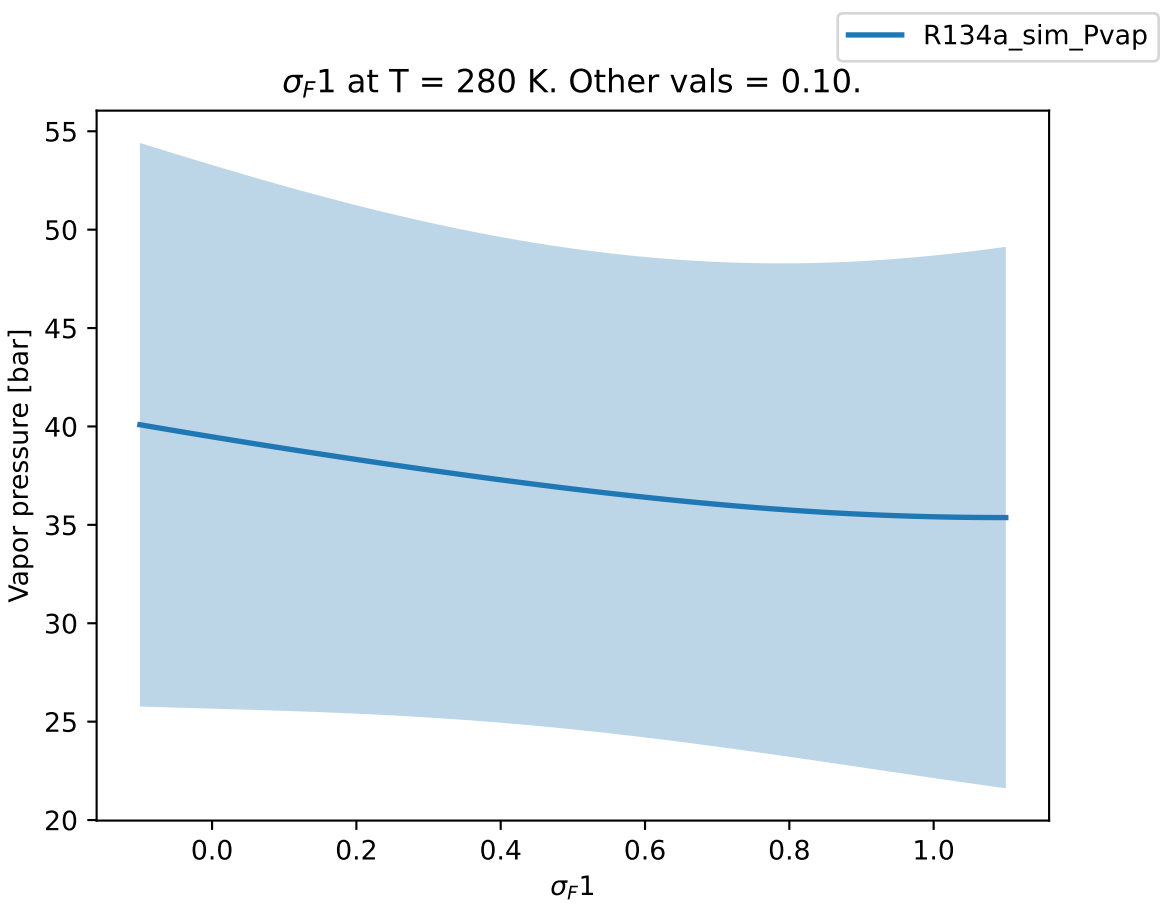

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
15.0
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

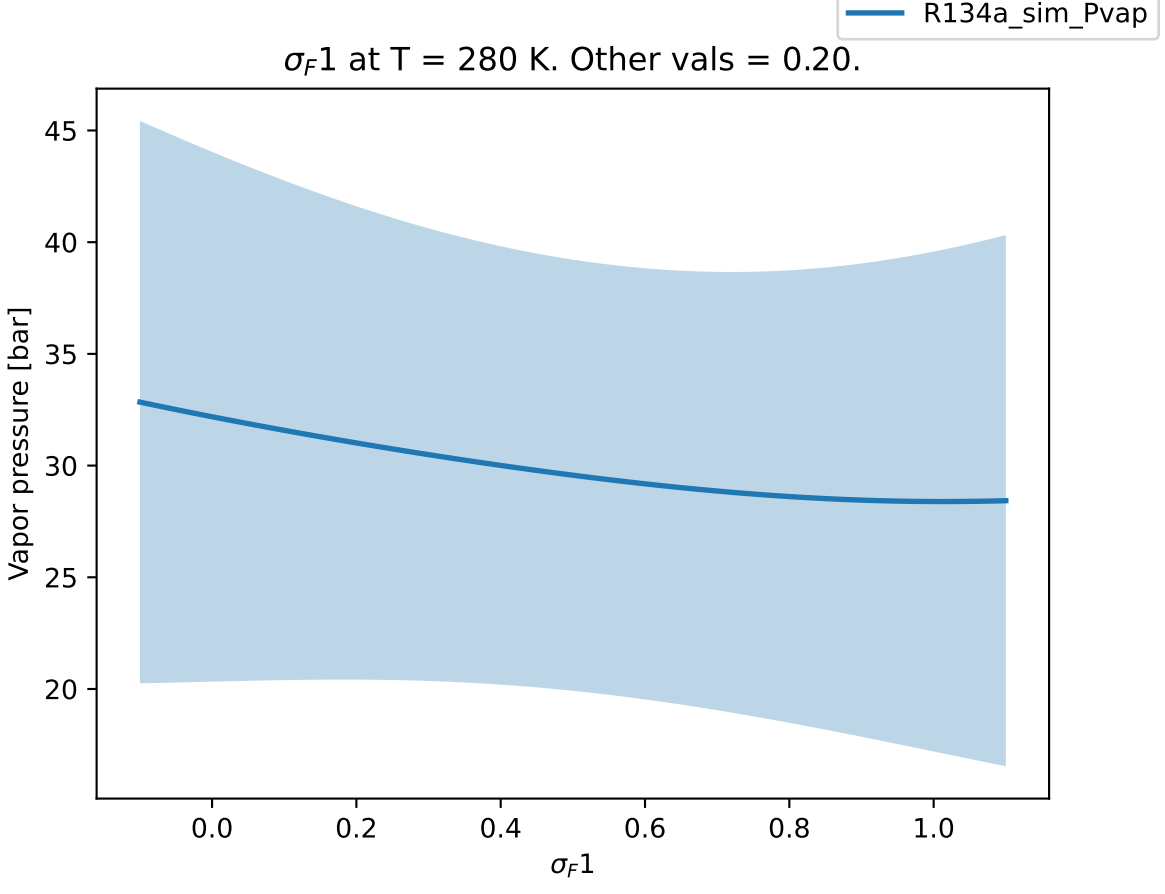

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

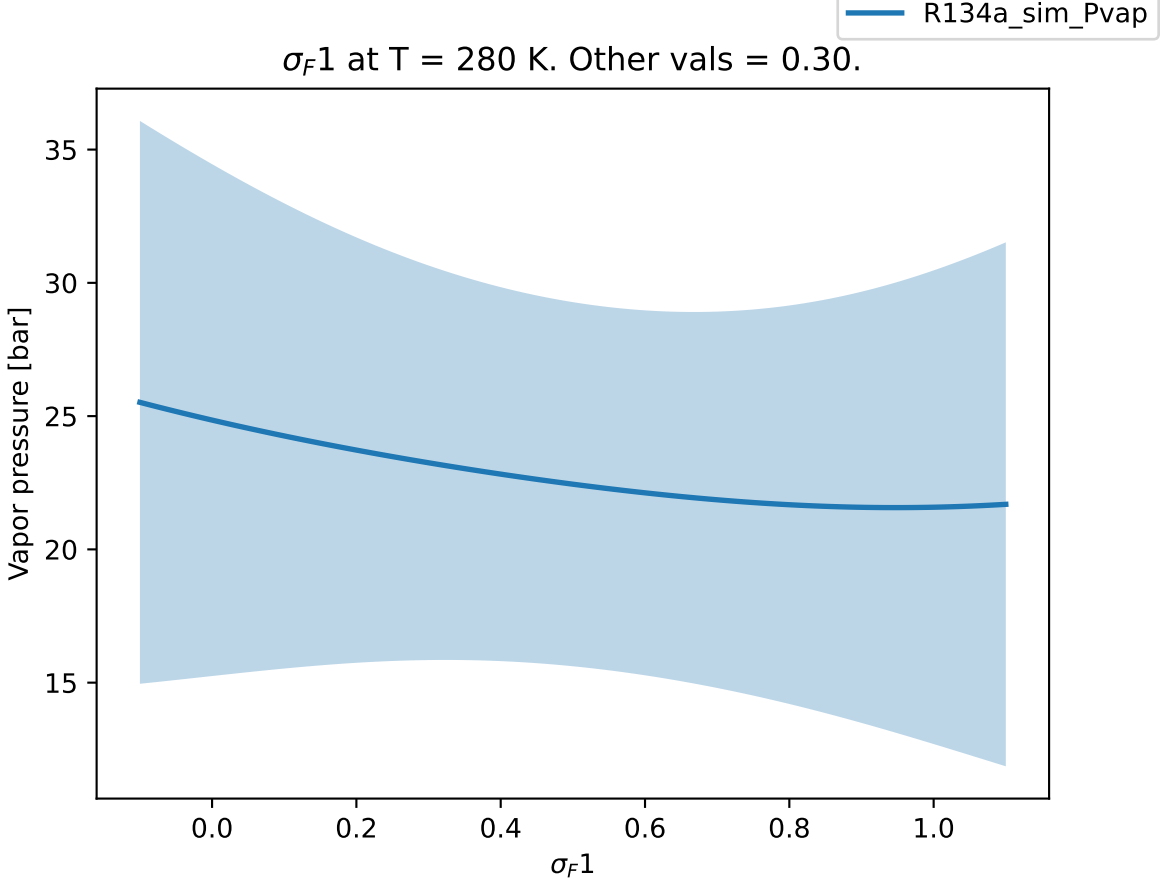

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

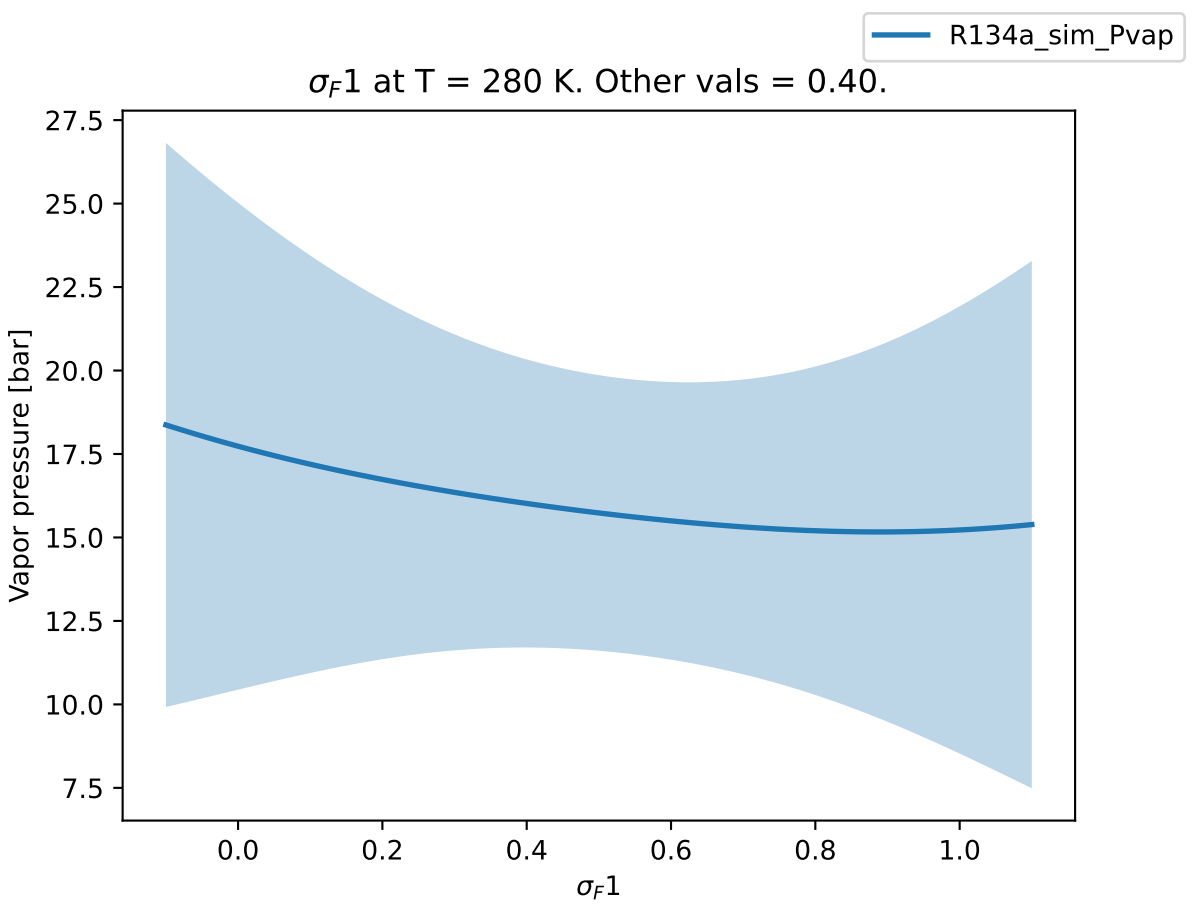

R134a_sim_Pvap
σ_C2 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
10
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

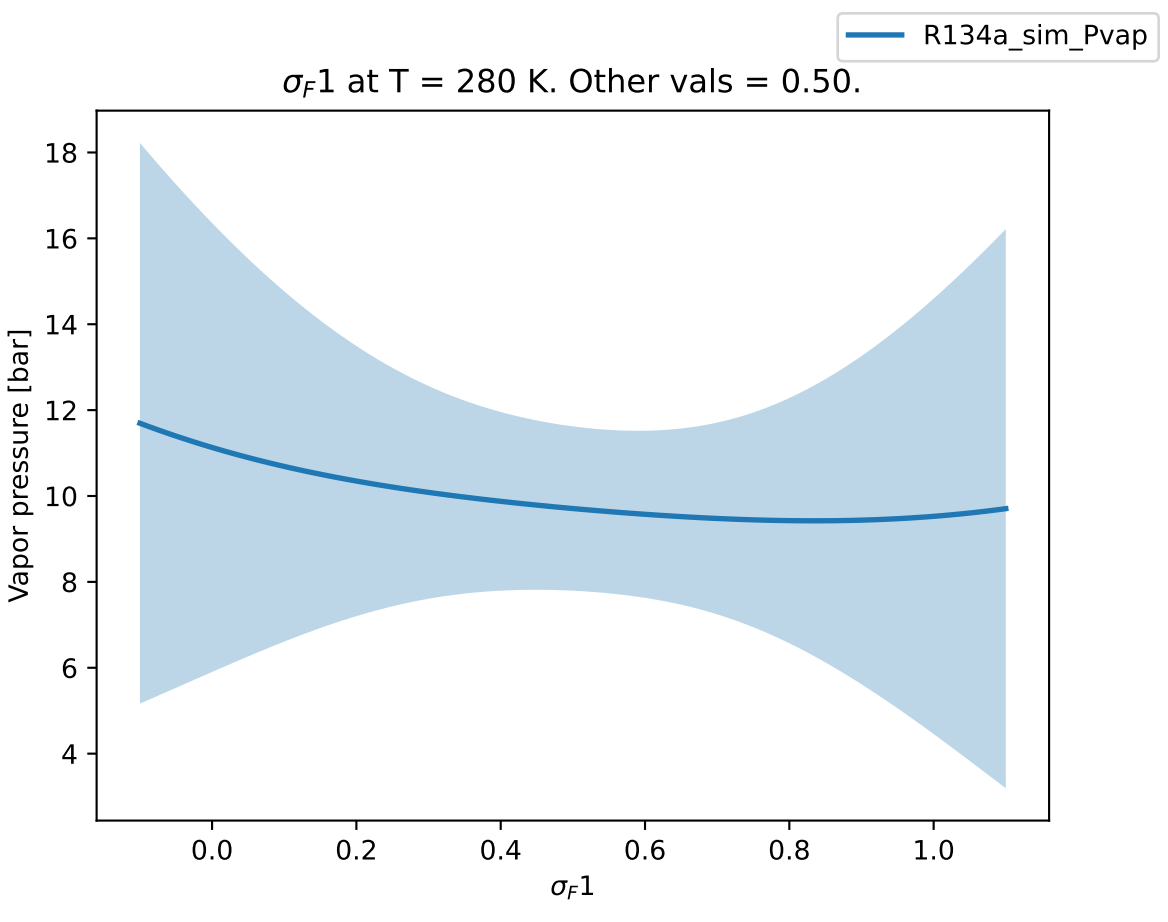

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

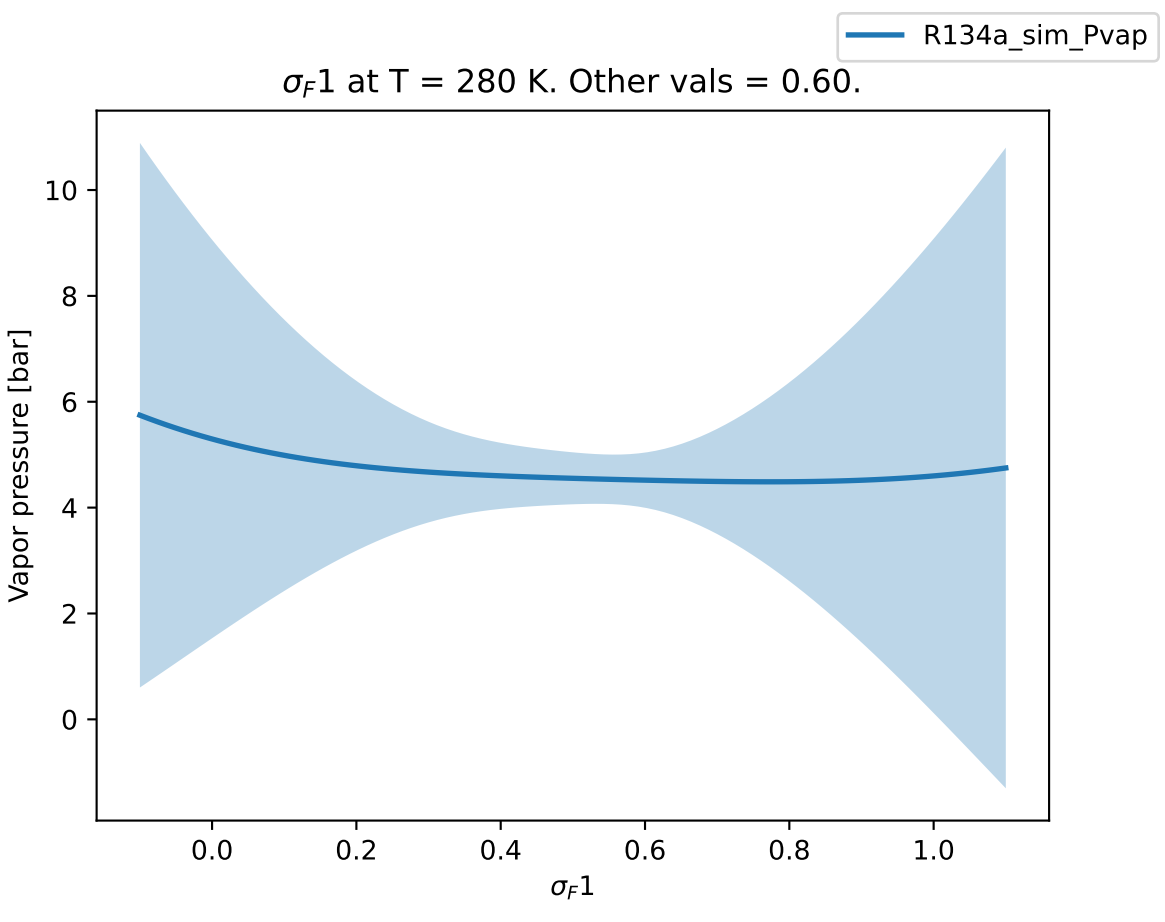

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
55
50
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

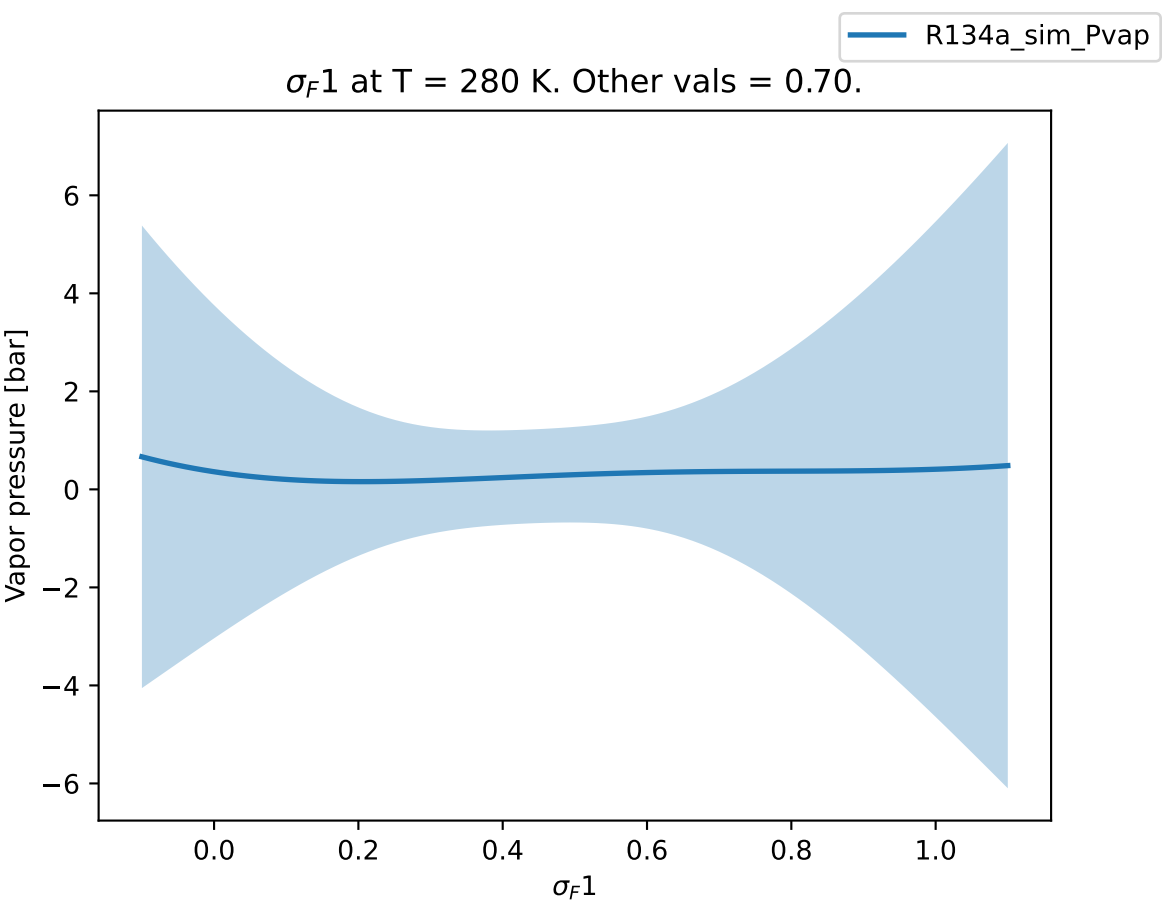

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

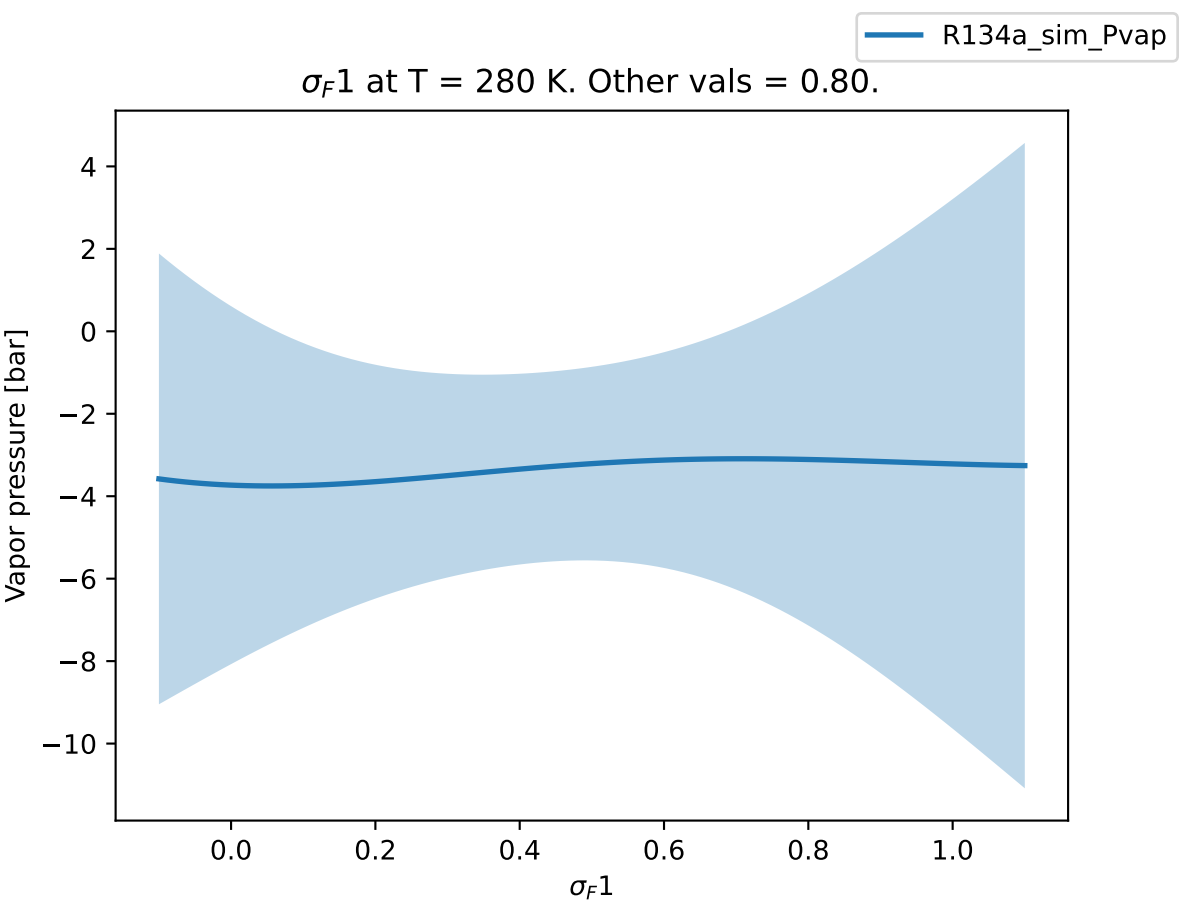

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

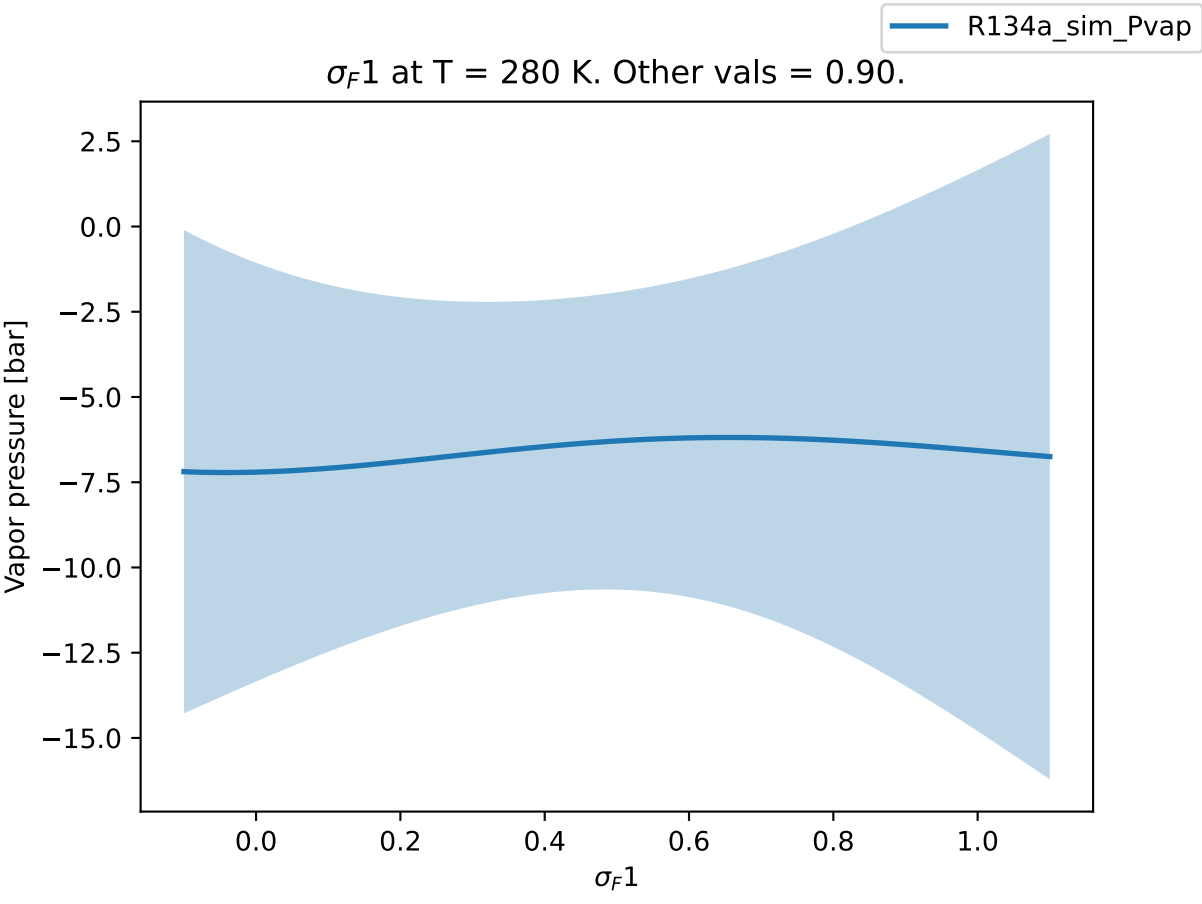

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

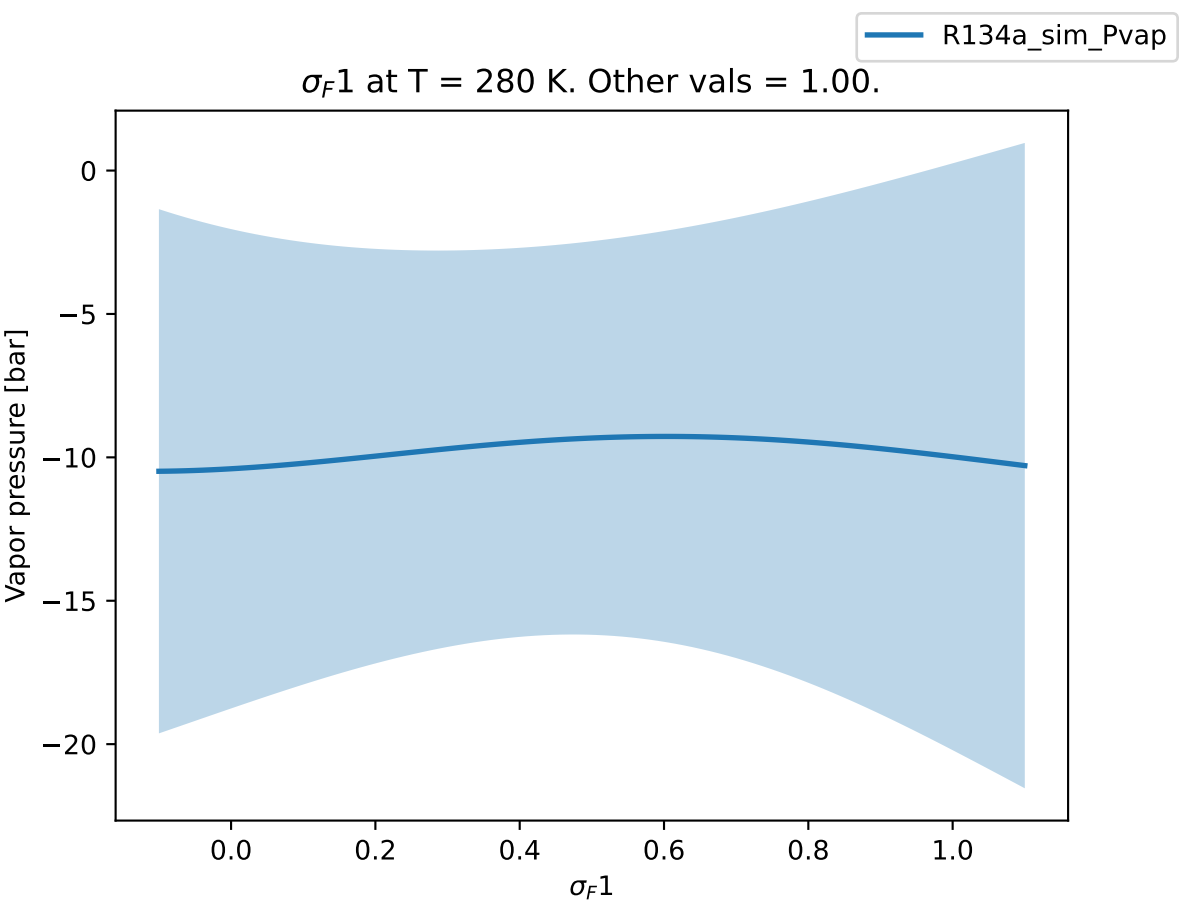

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
18
16
14
12
10
8
6
4
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

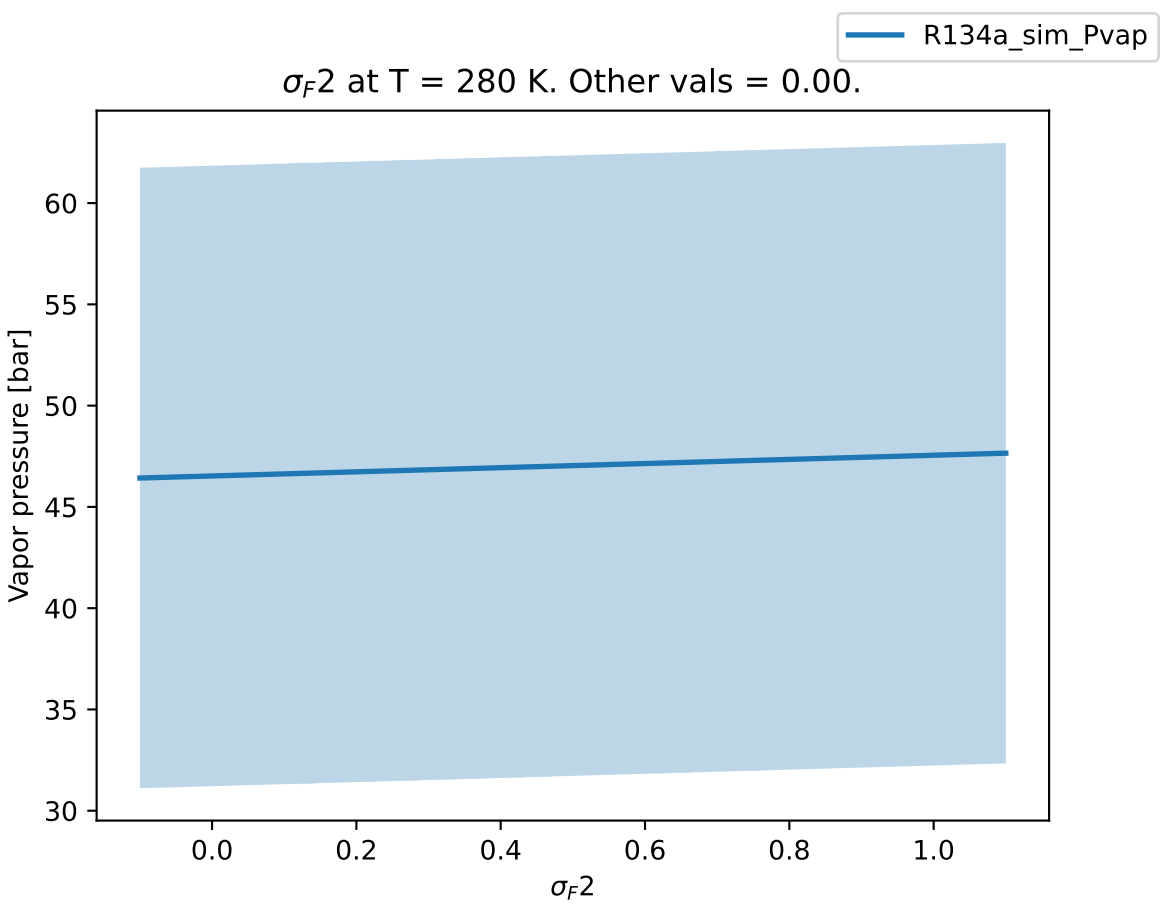

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
10
8
6
4
2
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

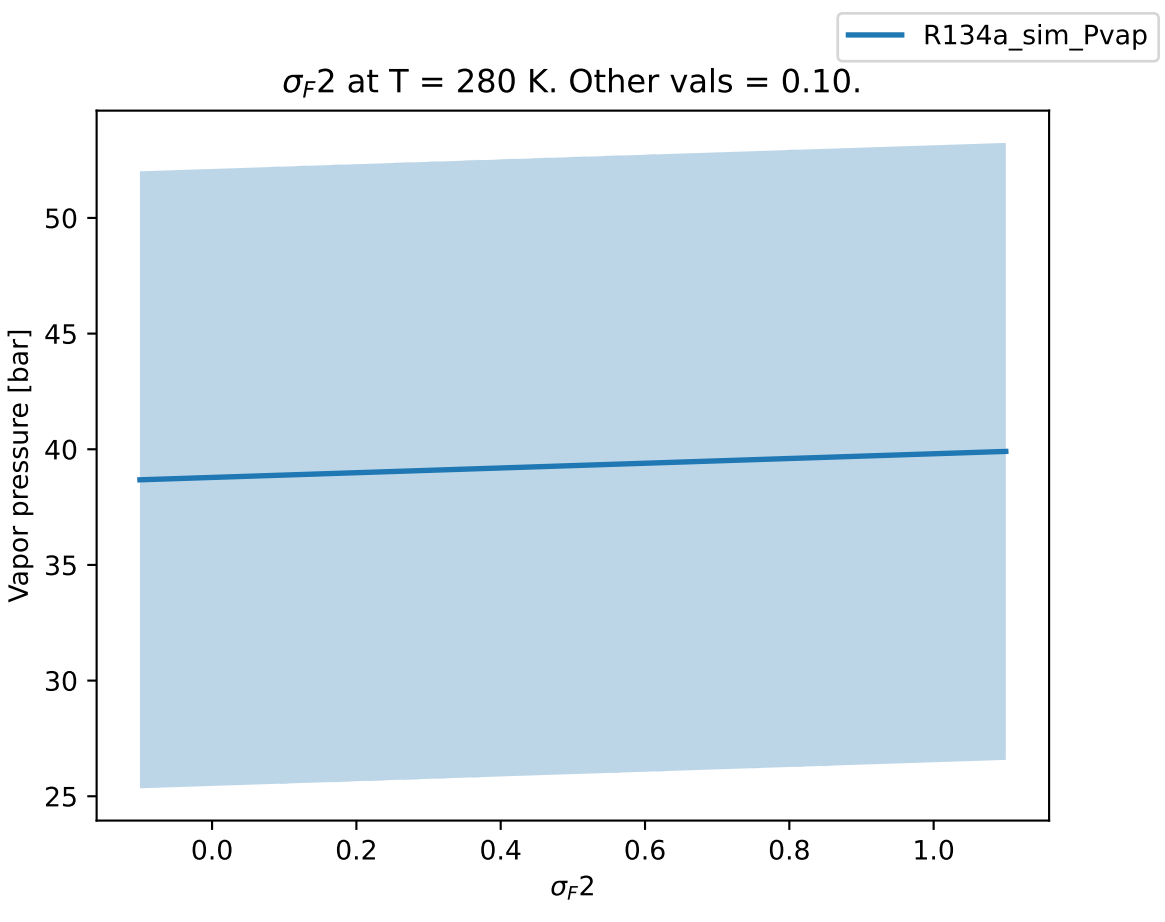

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
6
4
2
0
−2
−4
−6
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

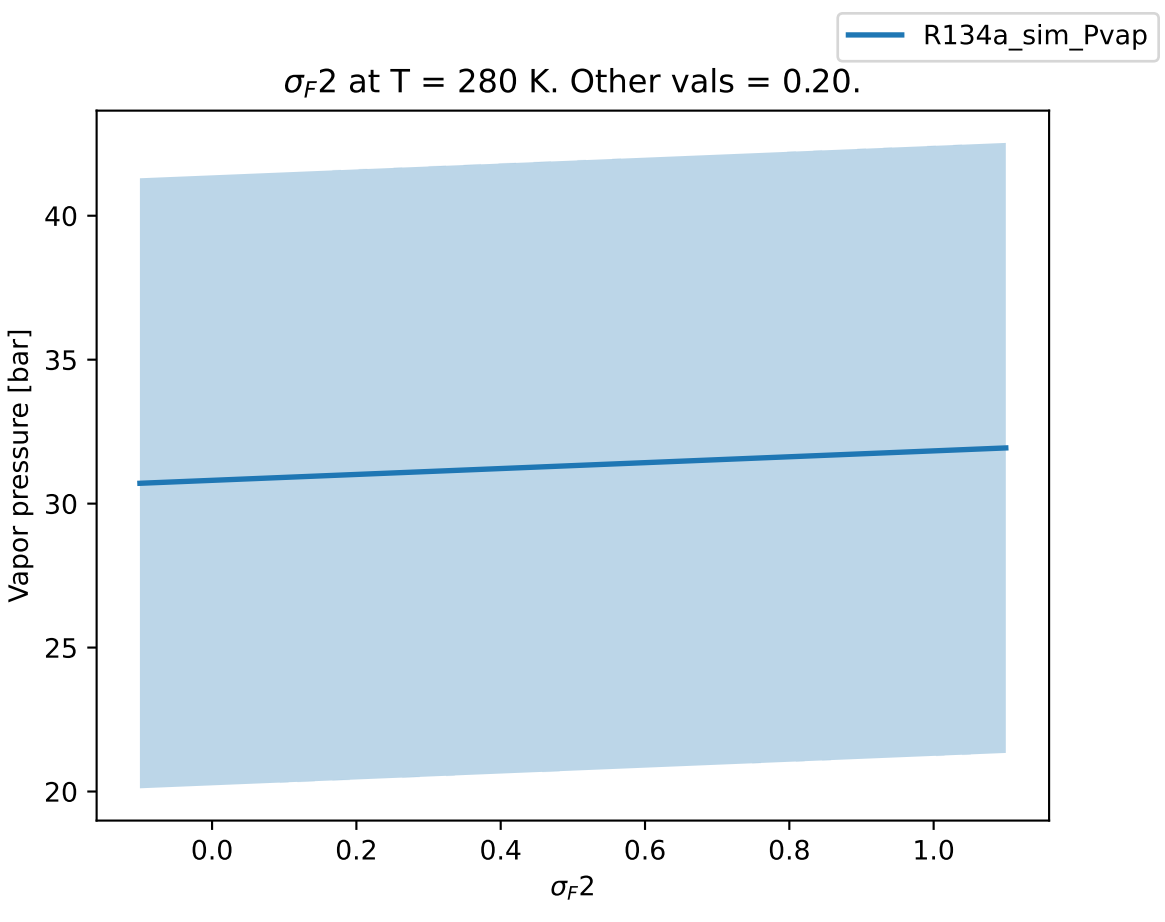

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
4
2
0
−2
−4
−6
−8
−10
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

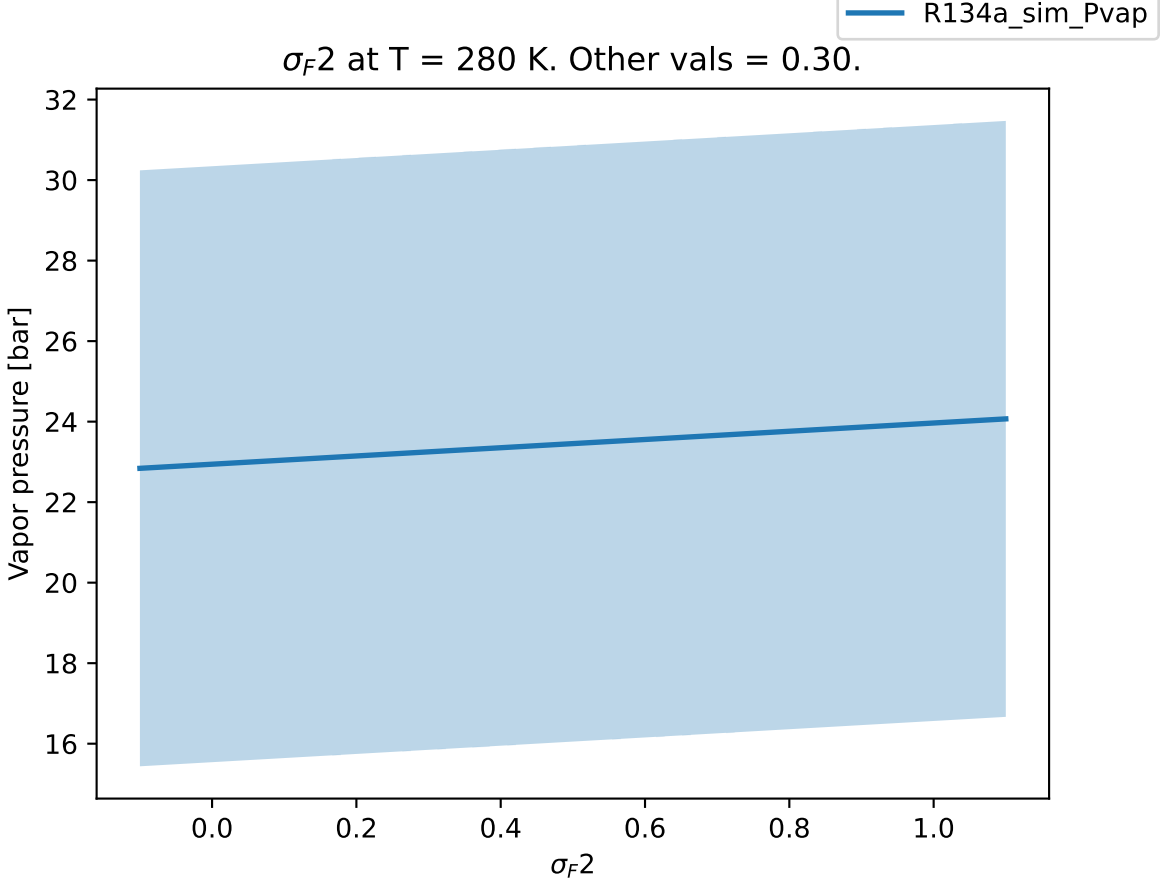

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

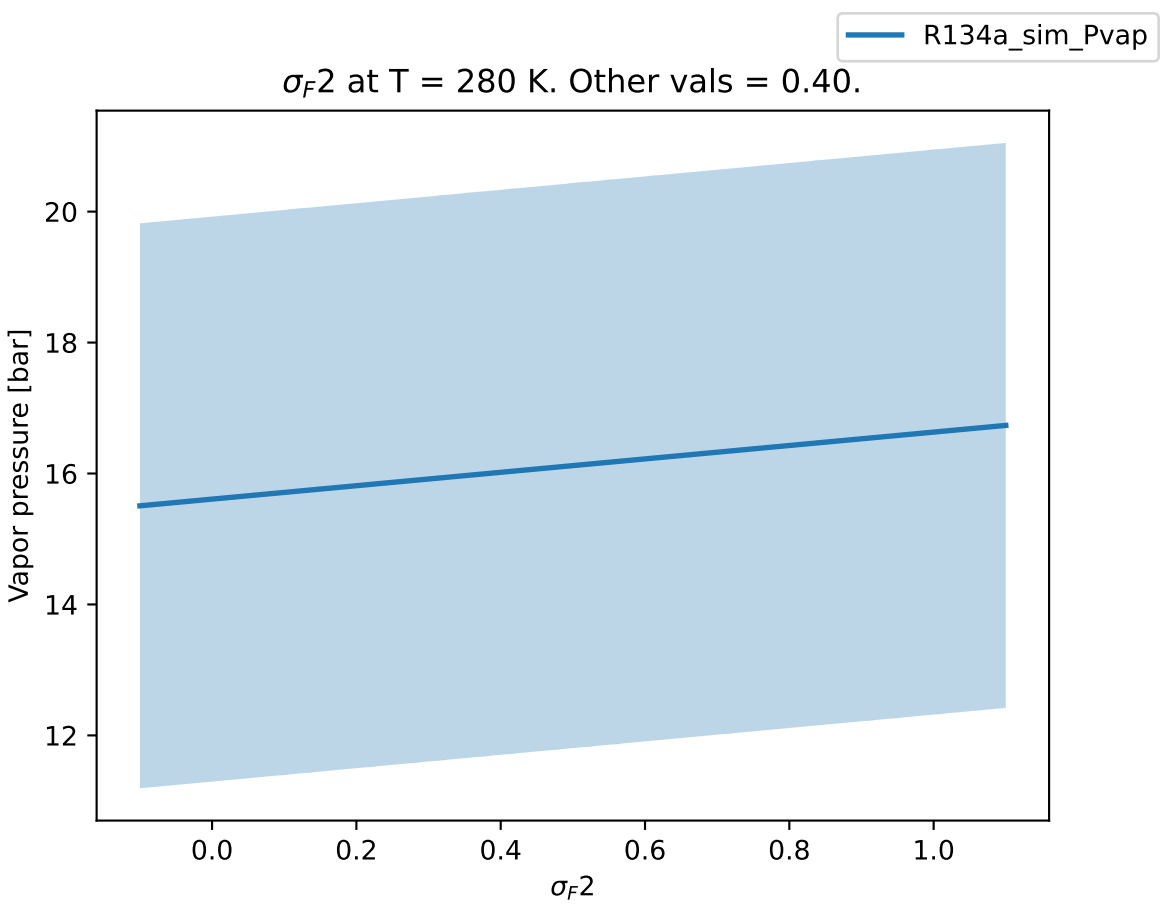

R134a_sim_Pvap
σ_F1 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

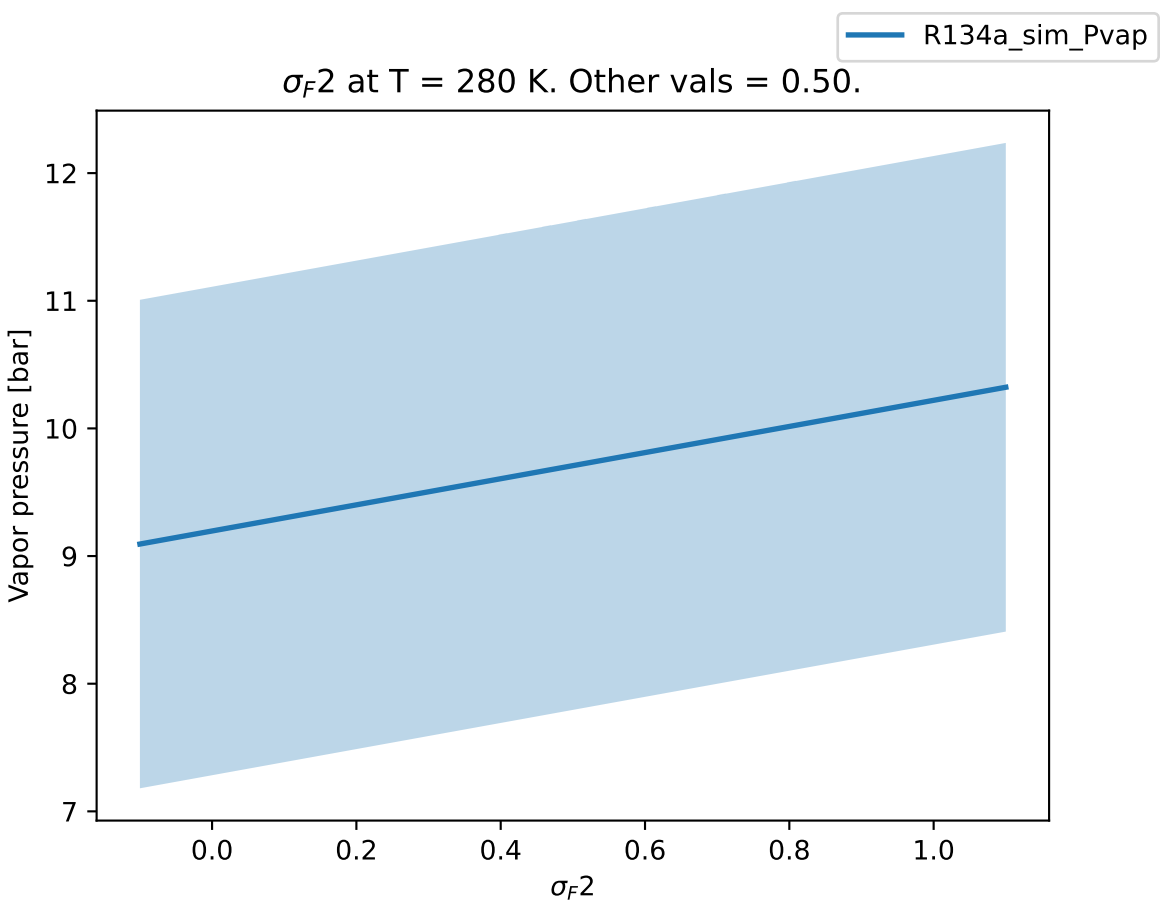

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

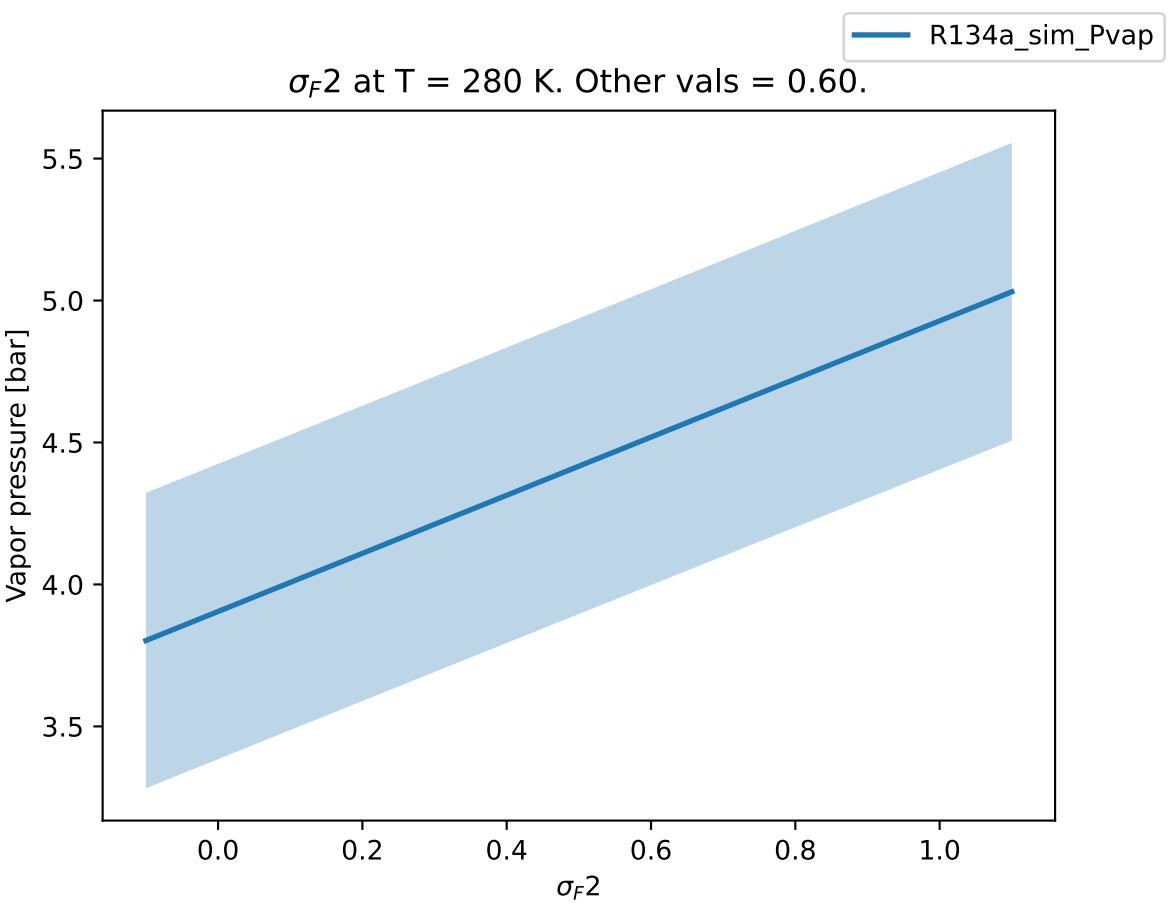

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

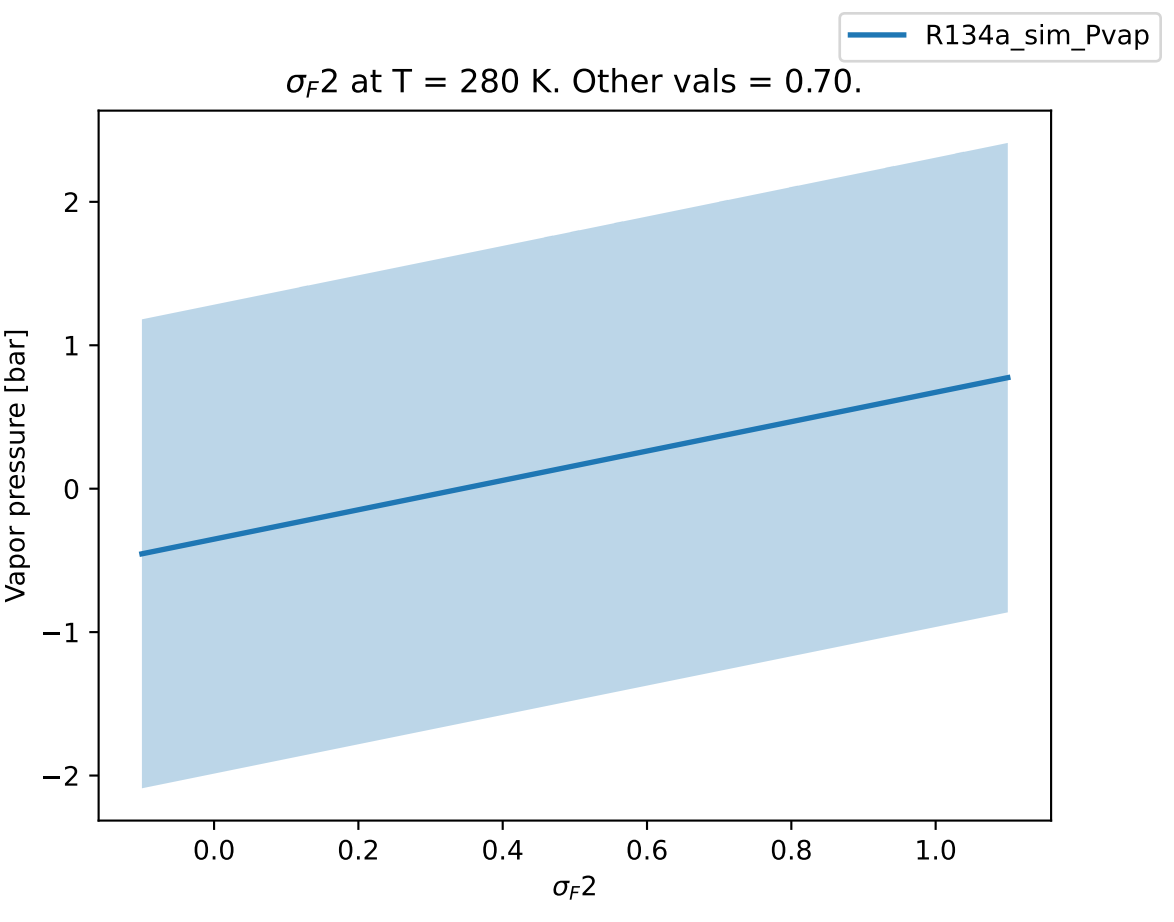

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

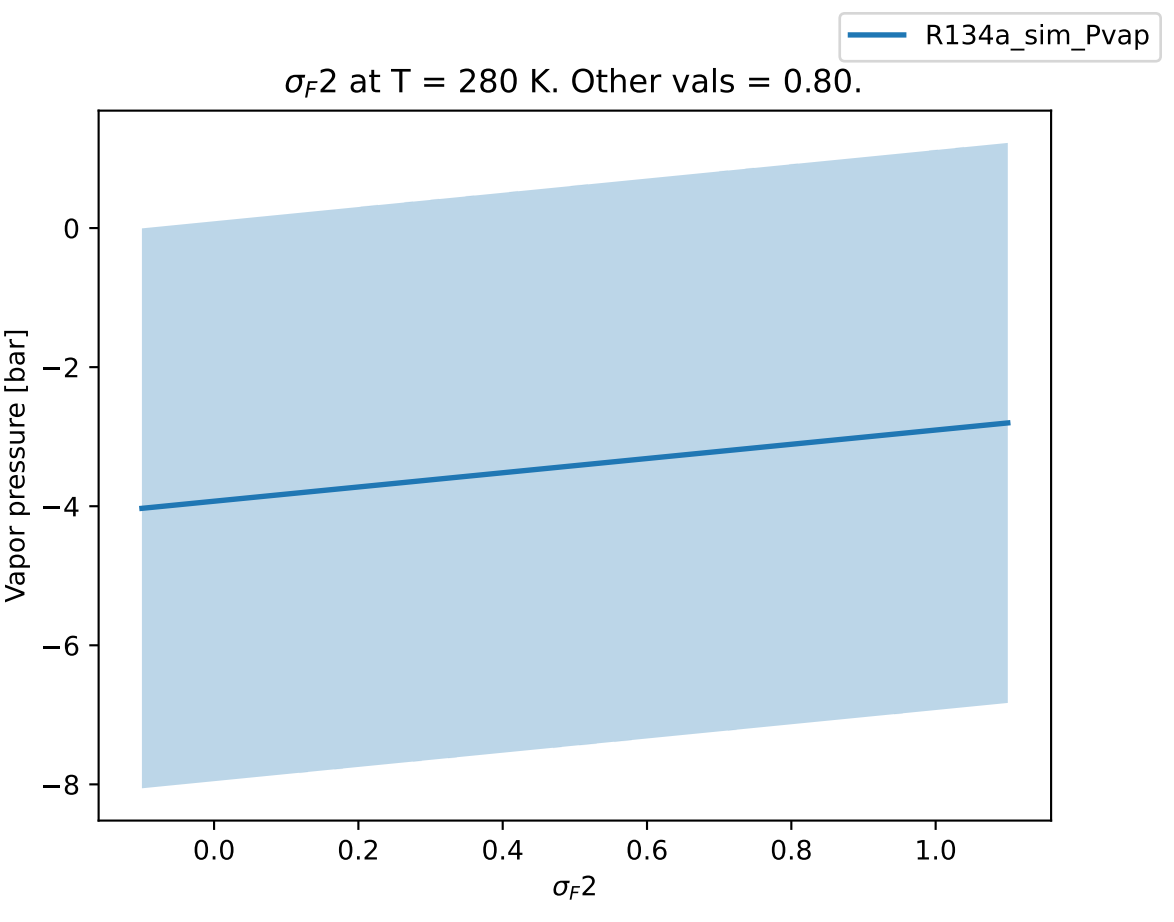

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
32
30
28
26
24
22
20
18
16
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

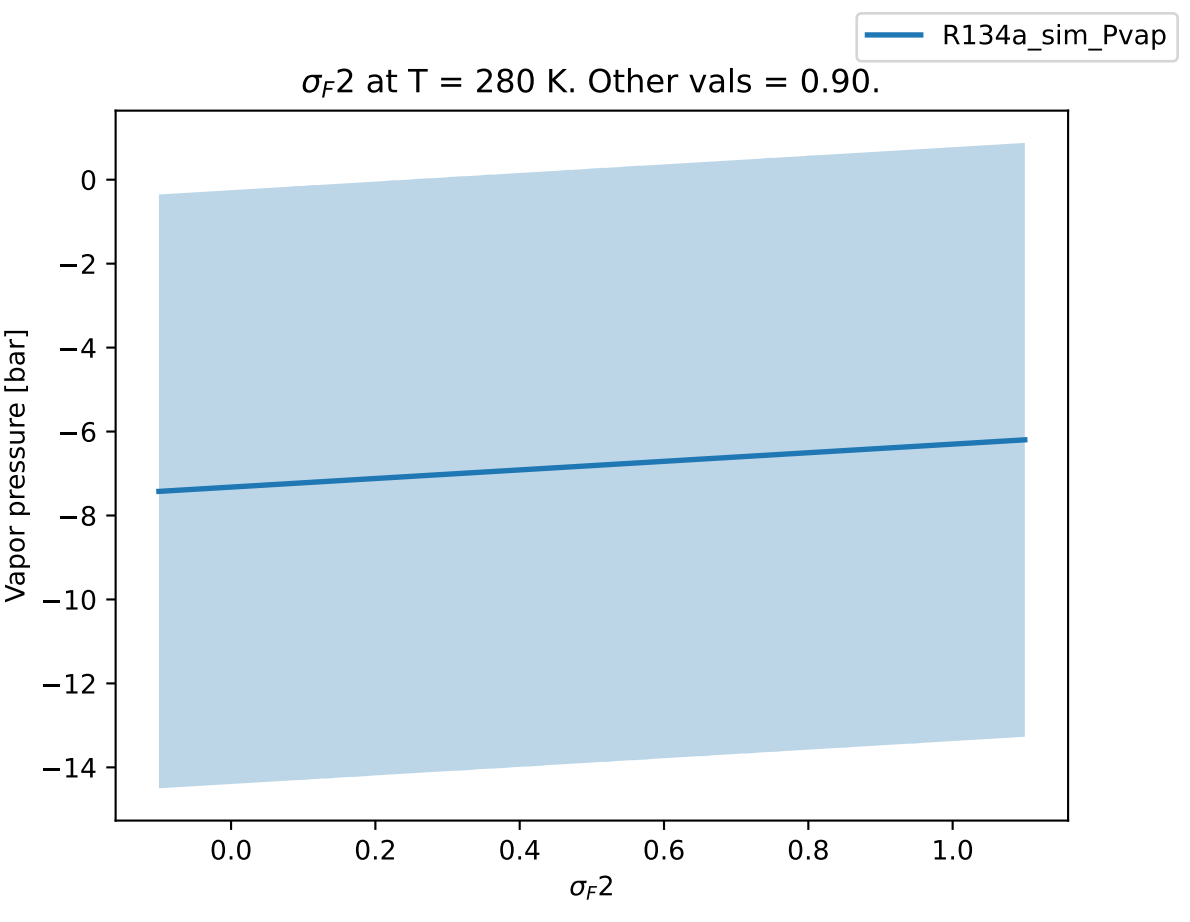

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
20
18
16
14
12
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

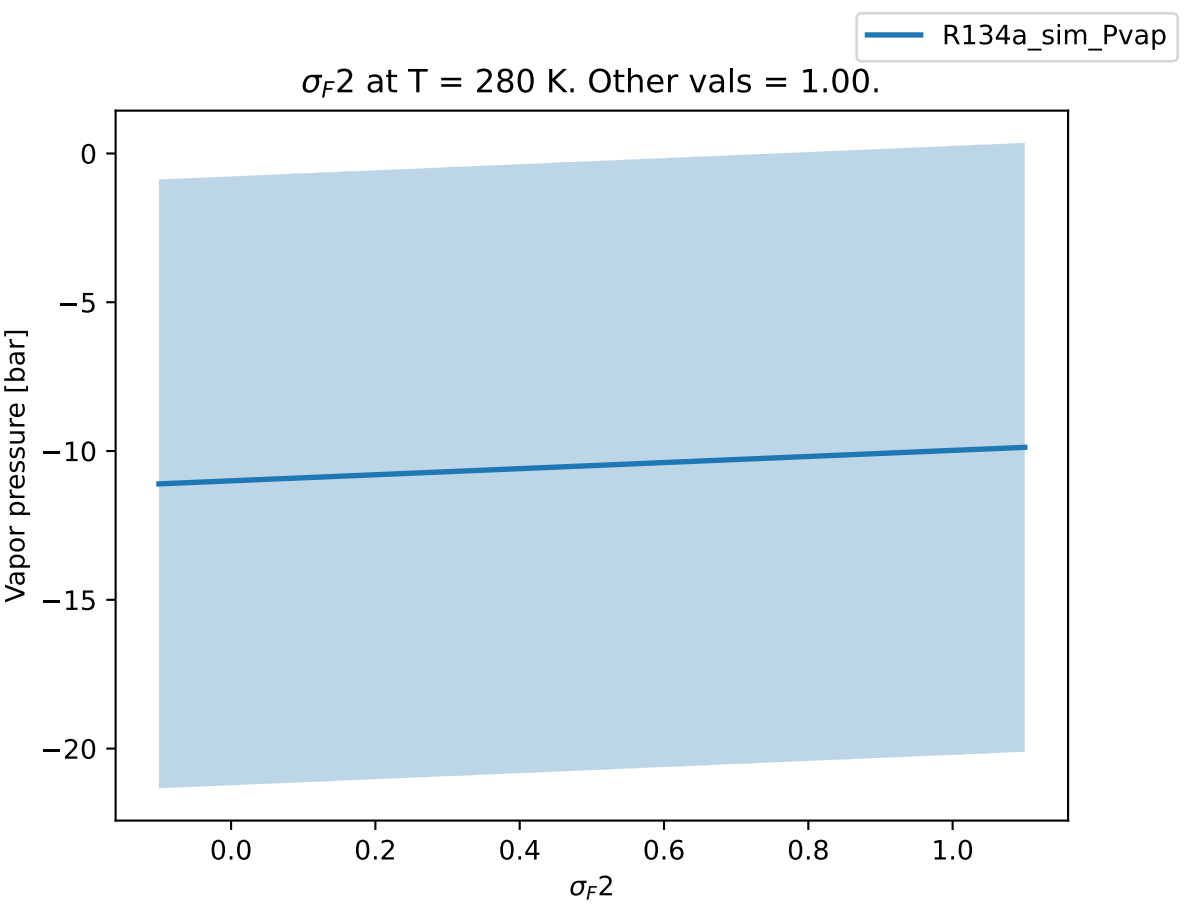

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
12
11
10
9
8
7
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

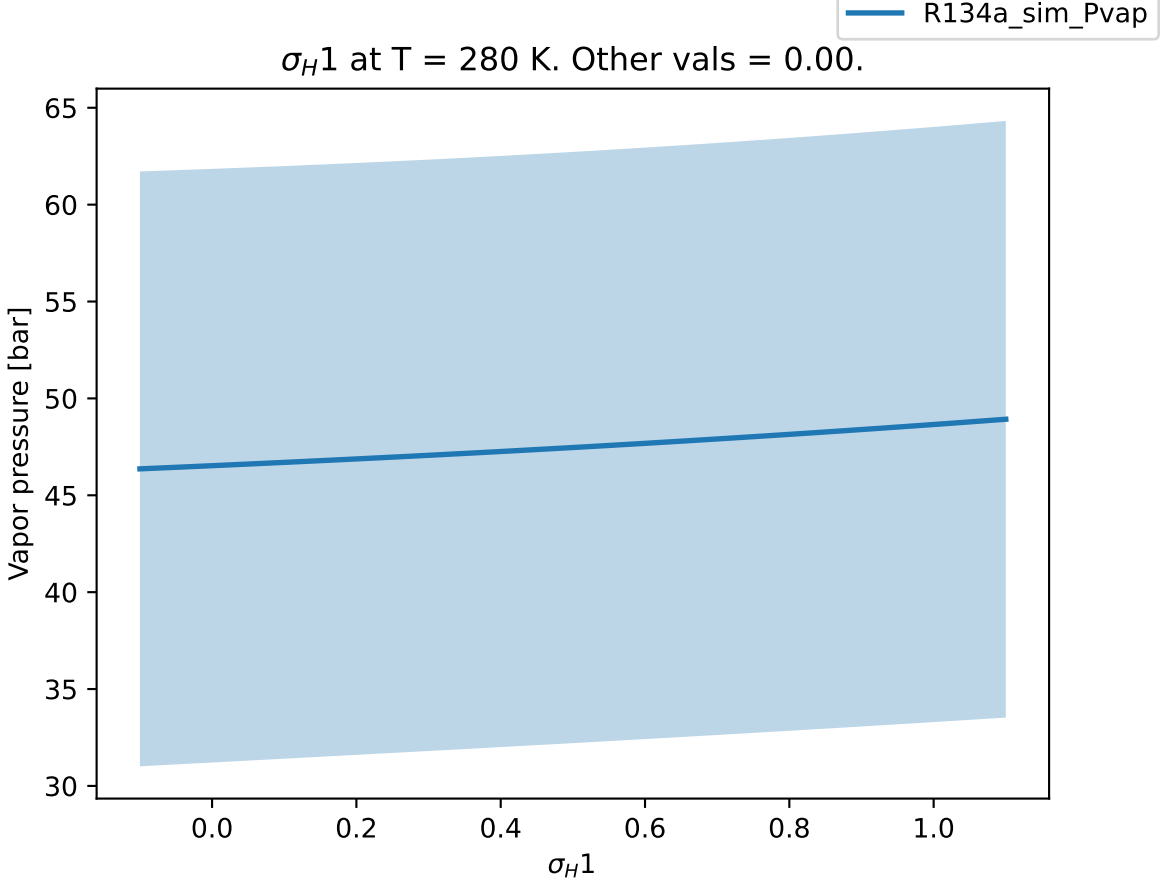

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
5.5
5.0
4.5
4.0
3.5
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

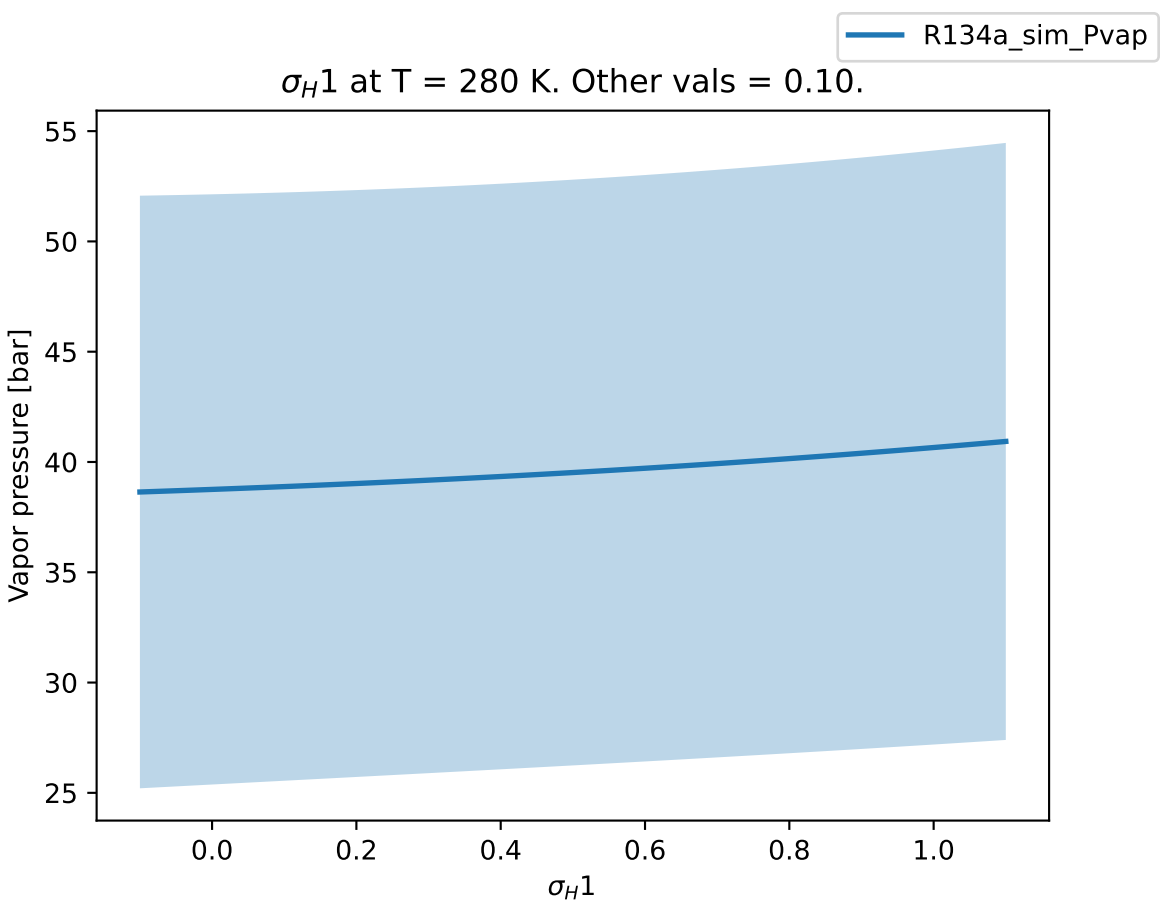

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
2
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

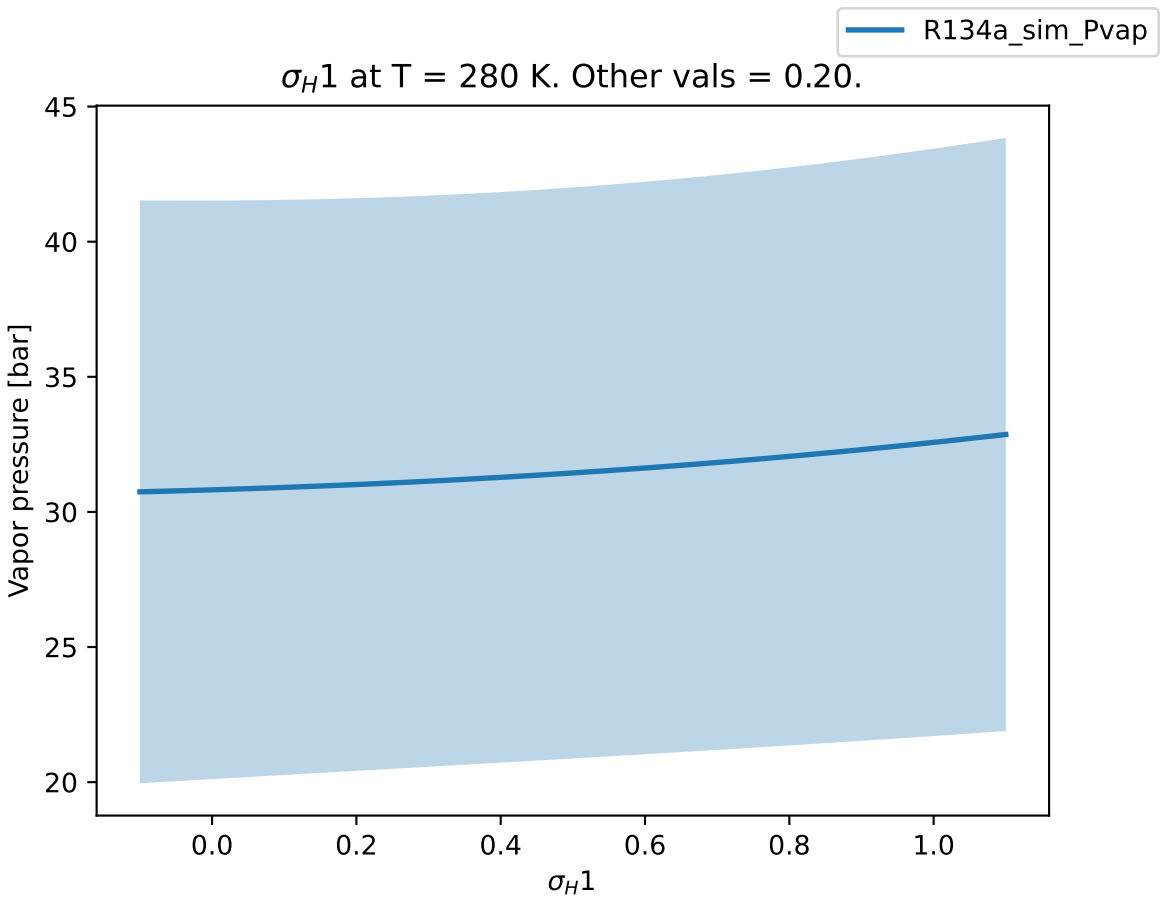

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
0
−2
−4
−6
−8
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

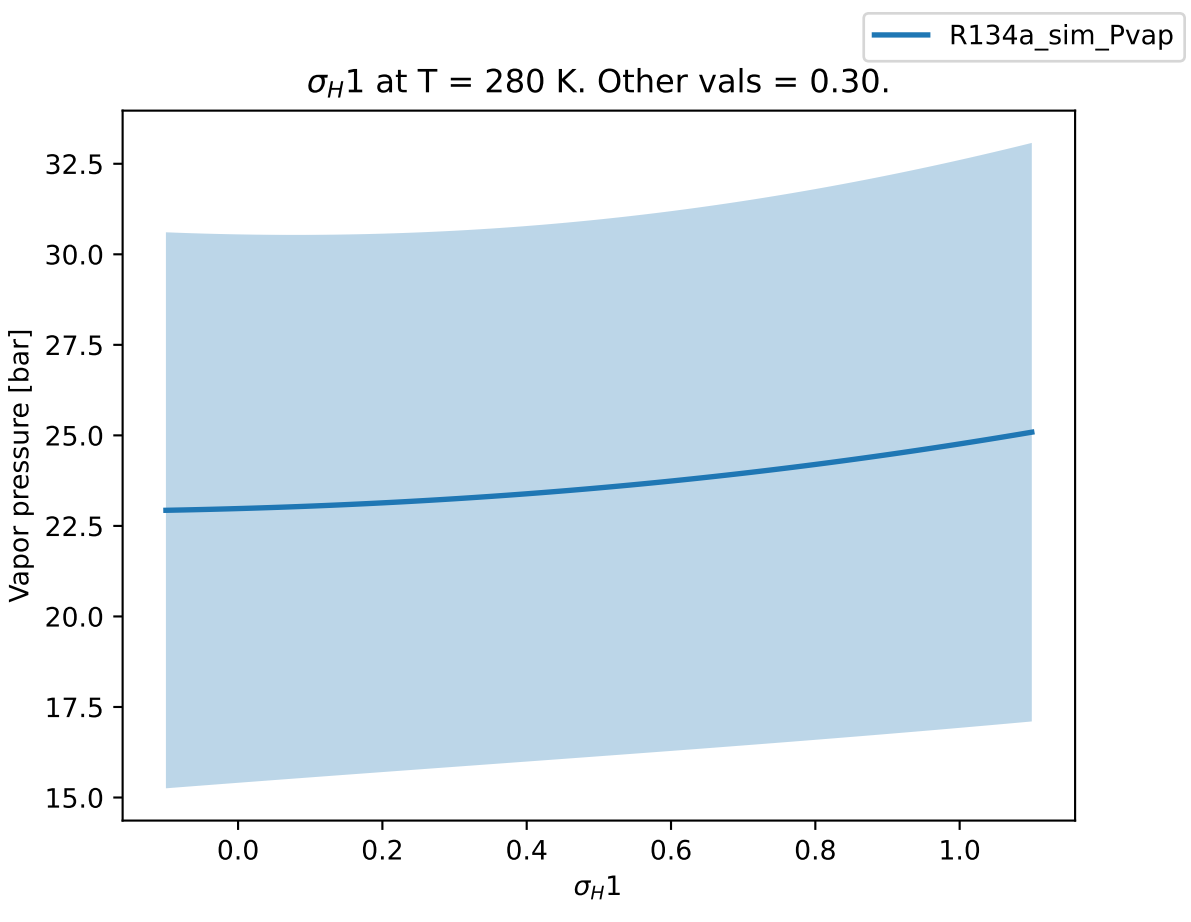

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
0
−2
−4
−6
−8
−10
−12
−14
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

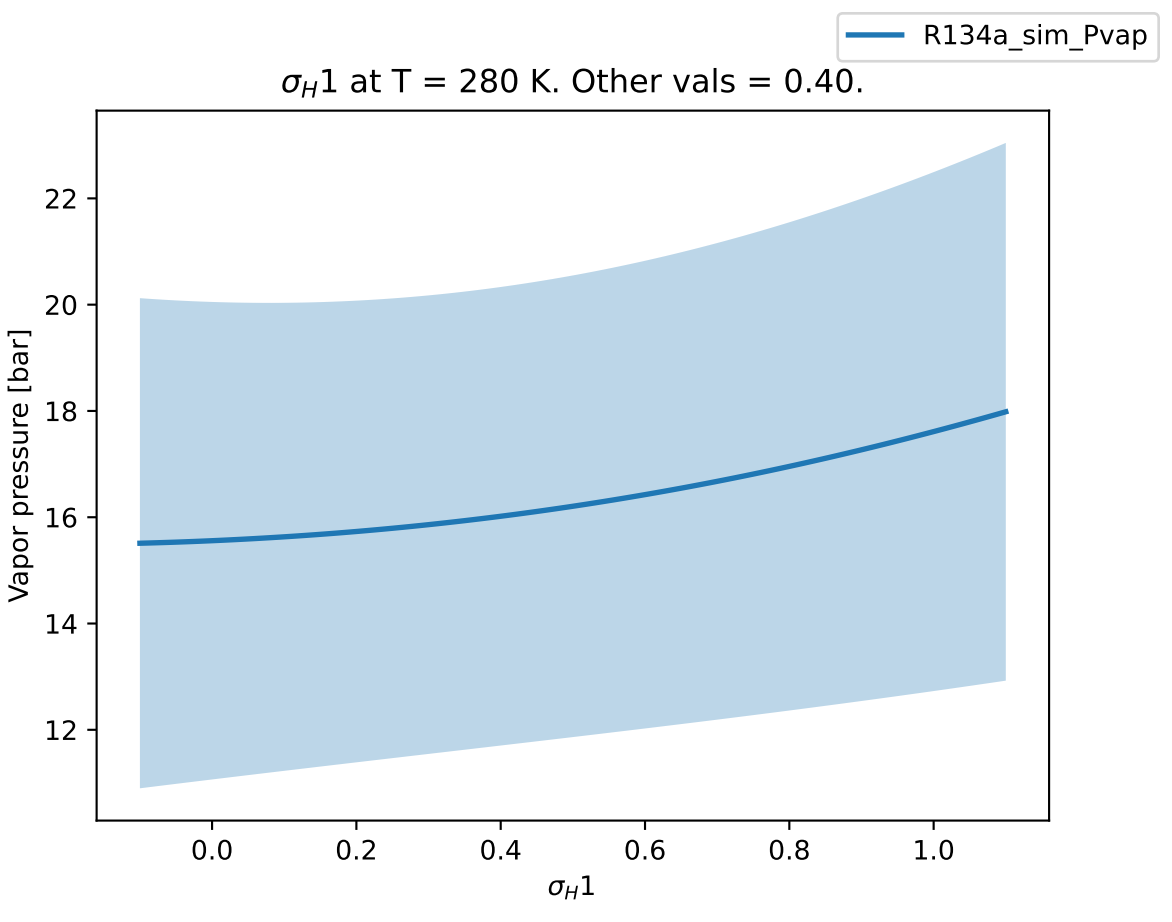

R134a_sim_Pvap
σ_F2 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

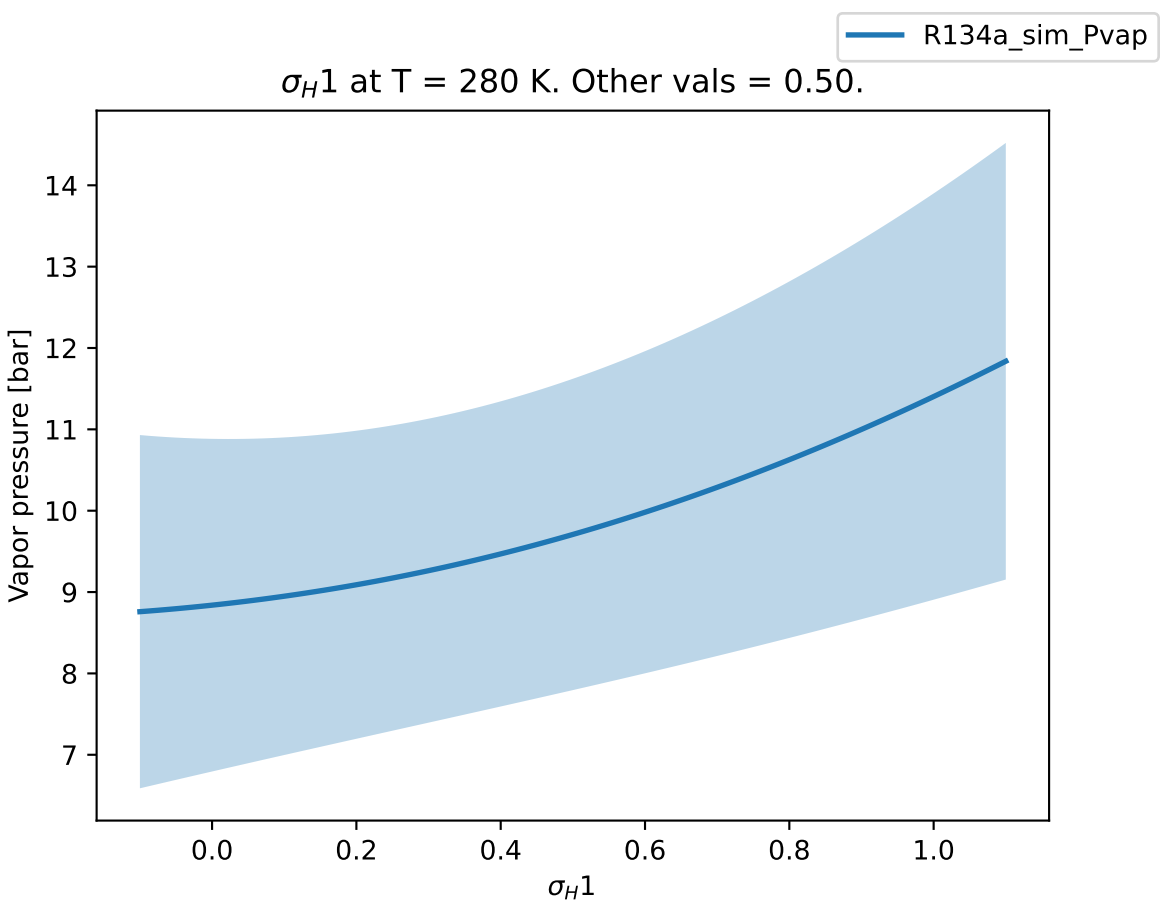

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
65
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

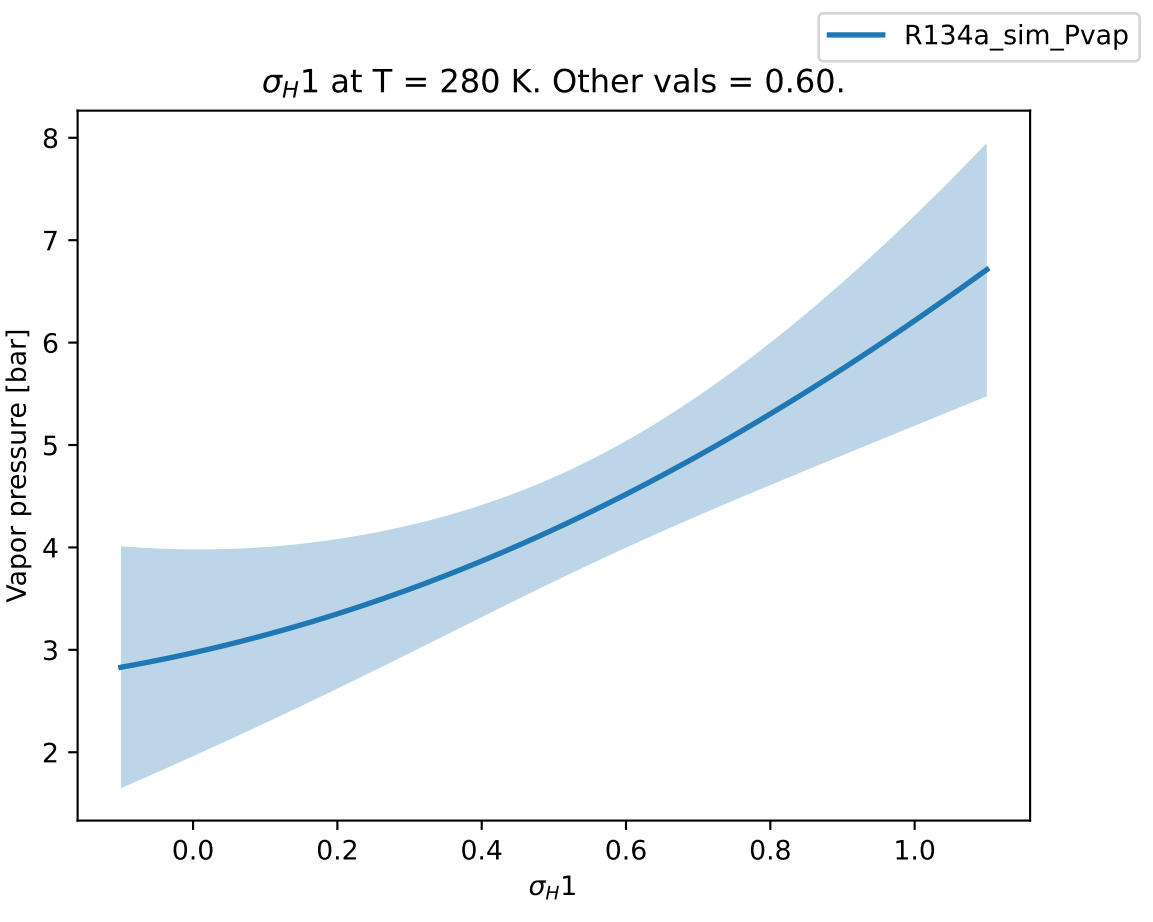

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
55
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

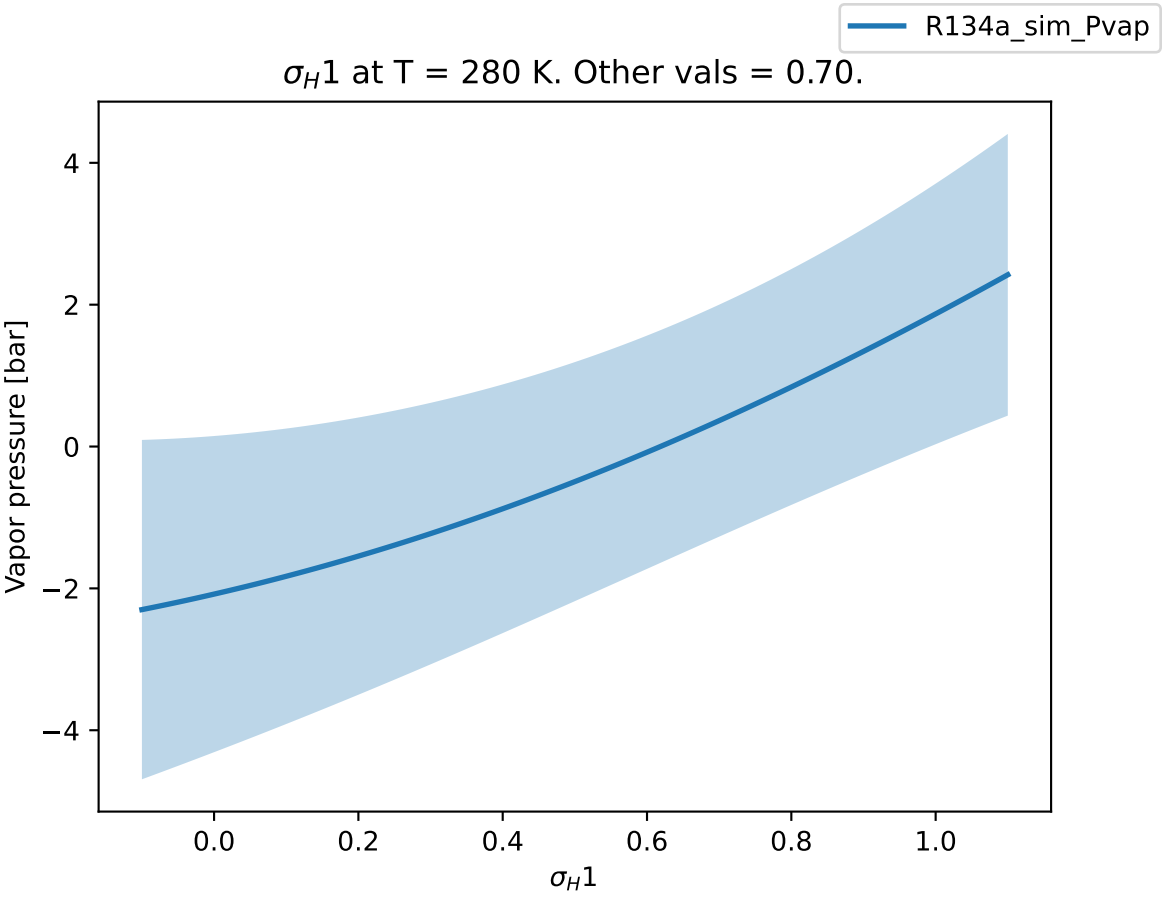

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

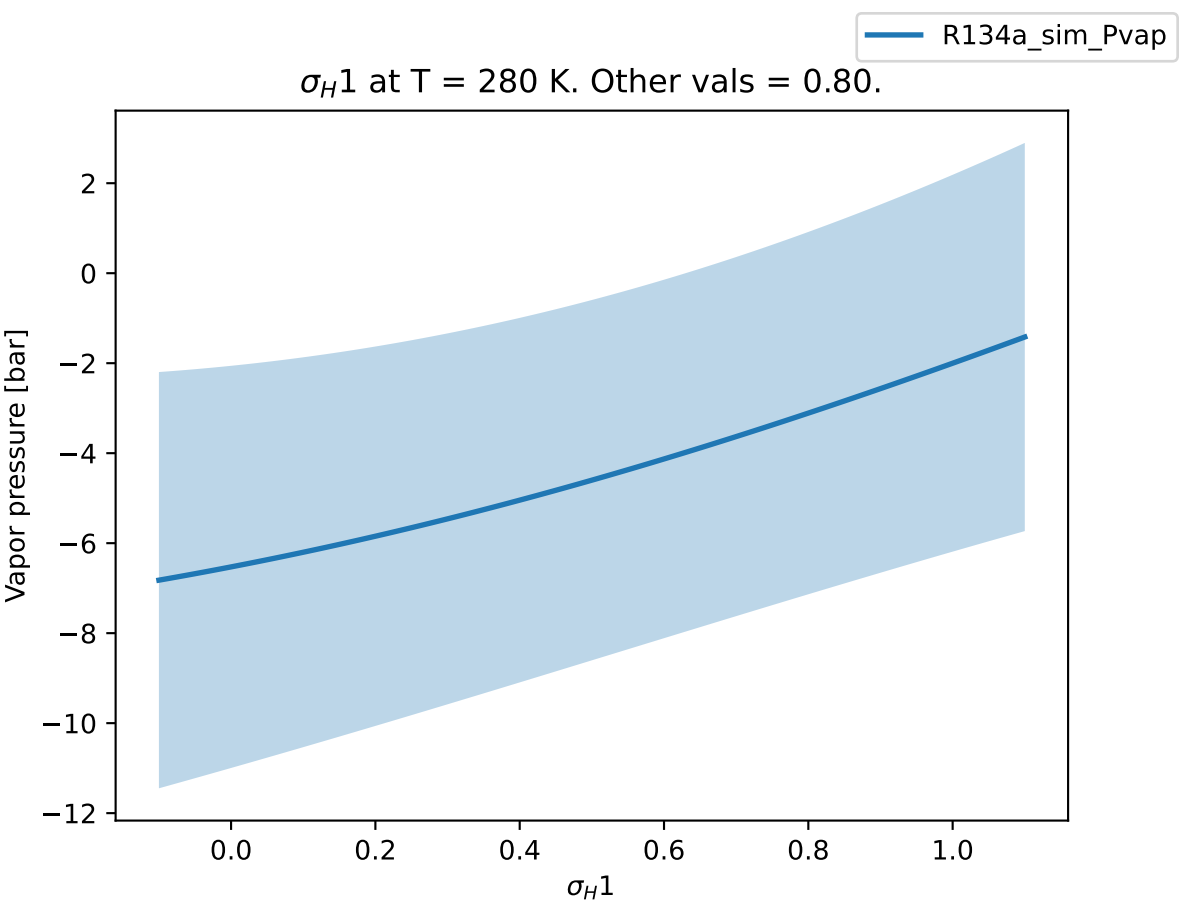

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

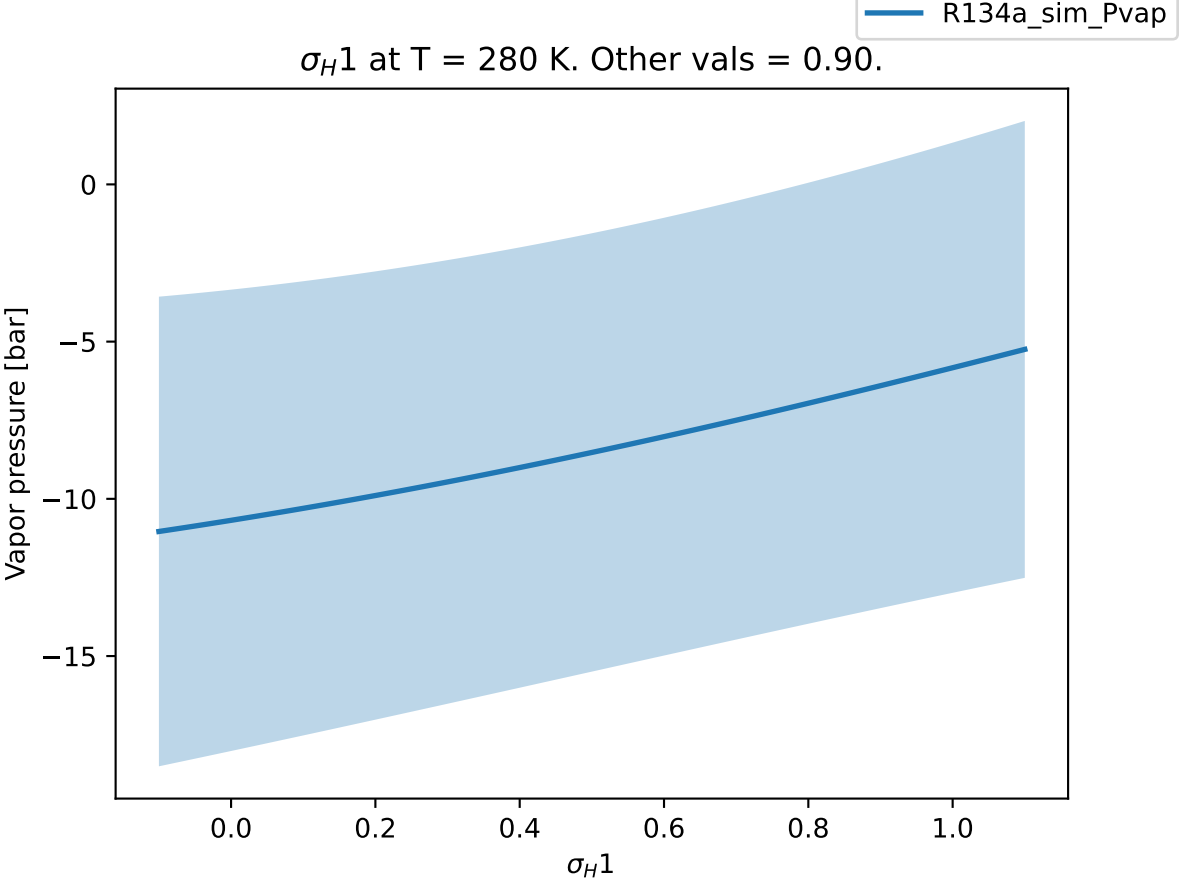

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
22
20
18
16
14
12
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

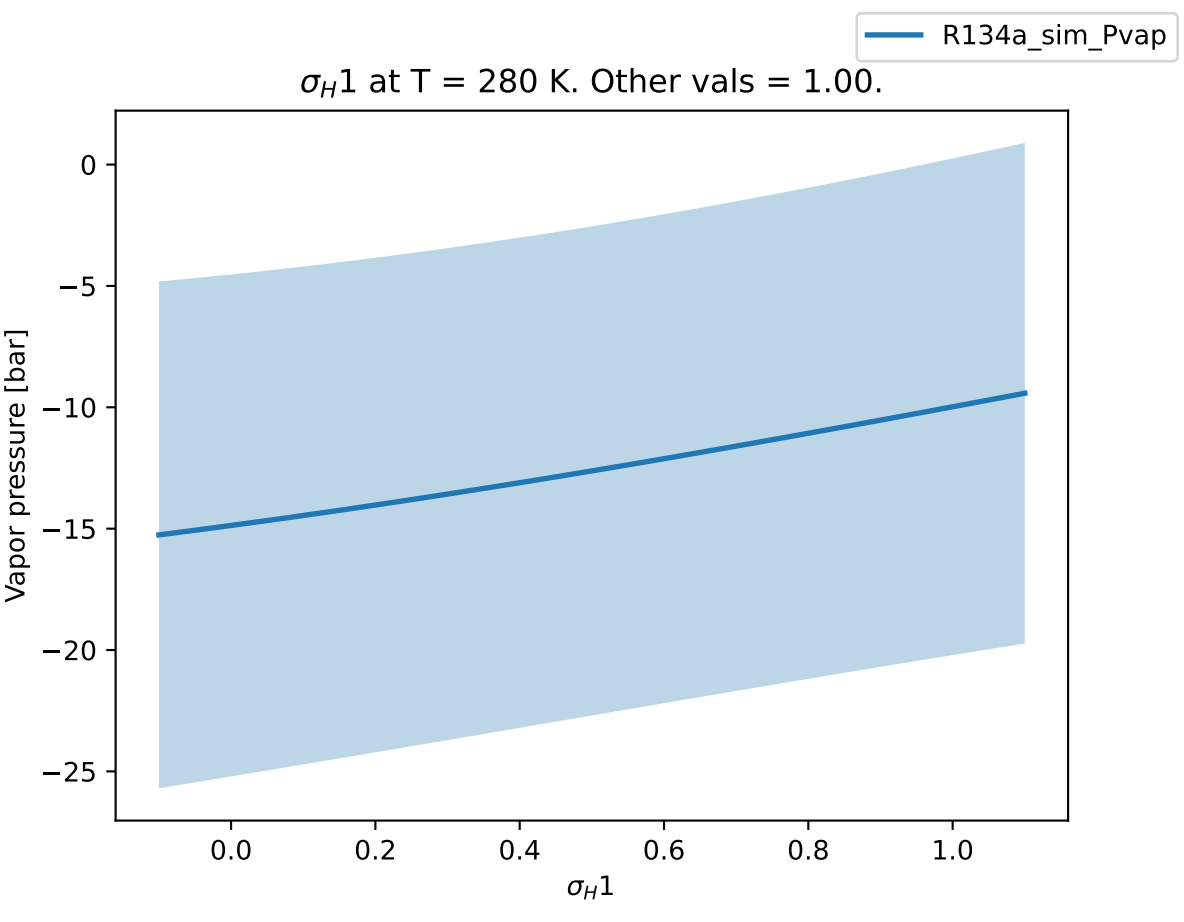

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
14
13
12
11
10
9
8
7
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

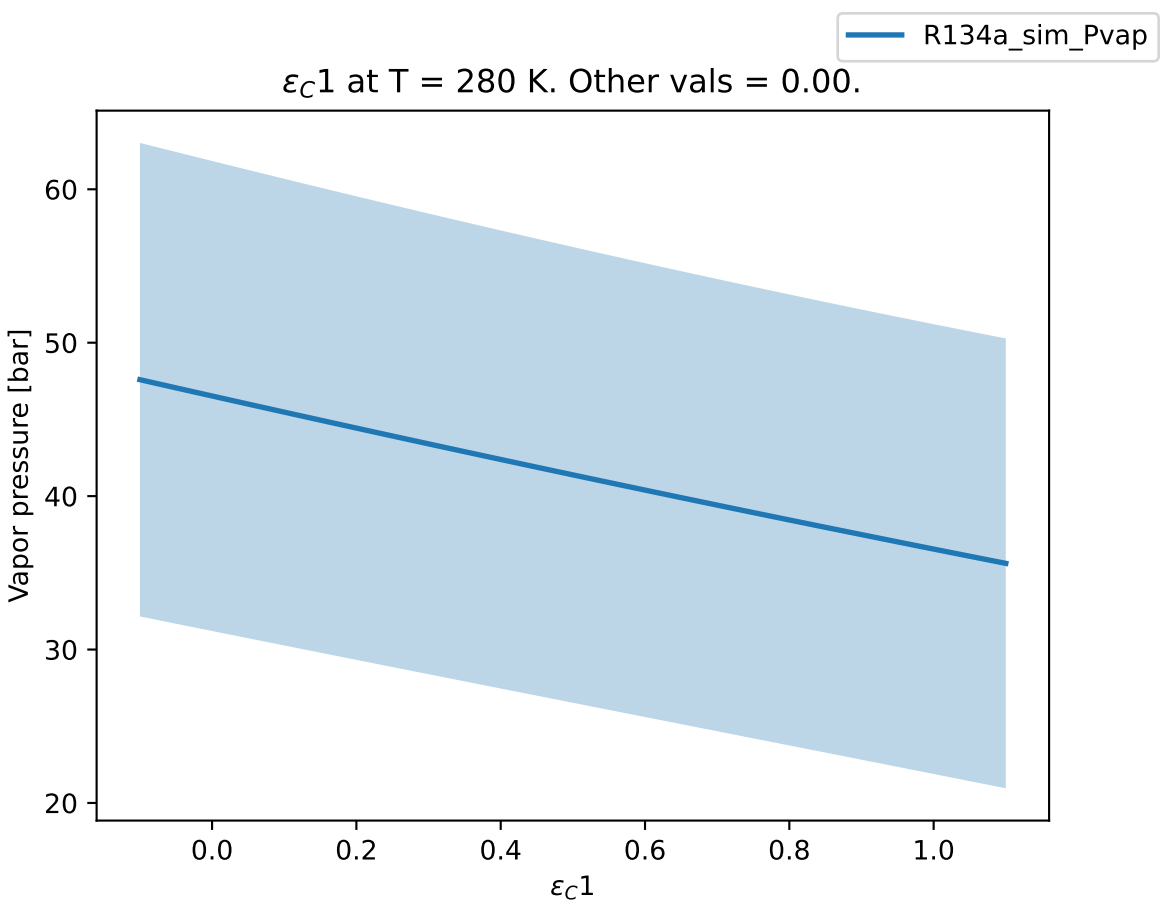

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
8
7
6
5
4
3
2
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

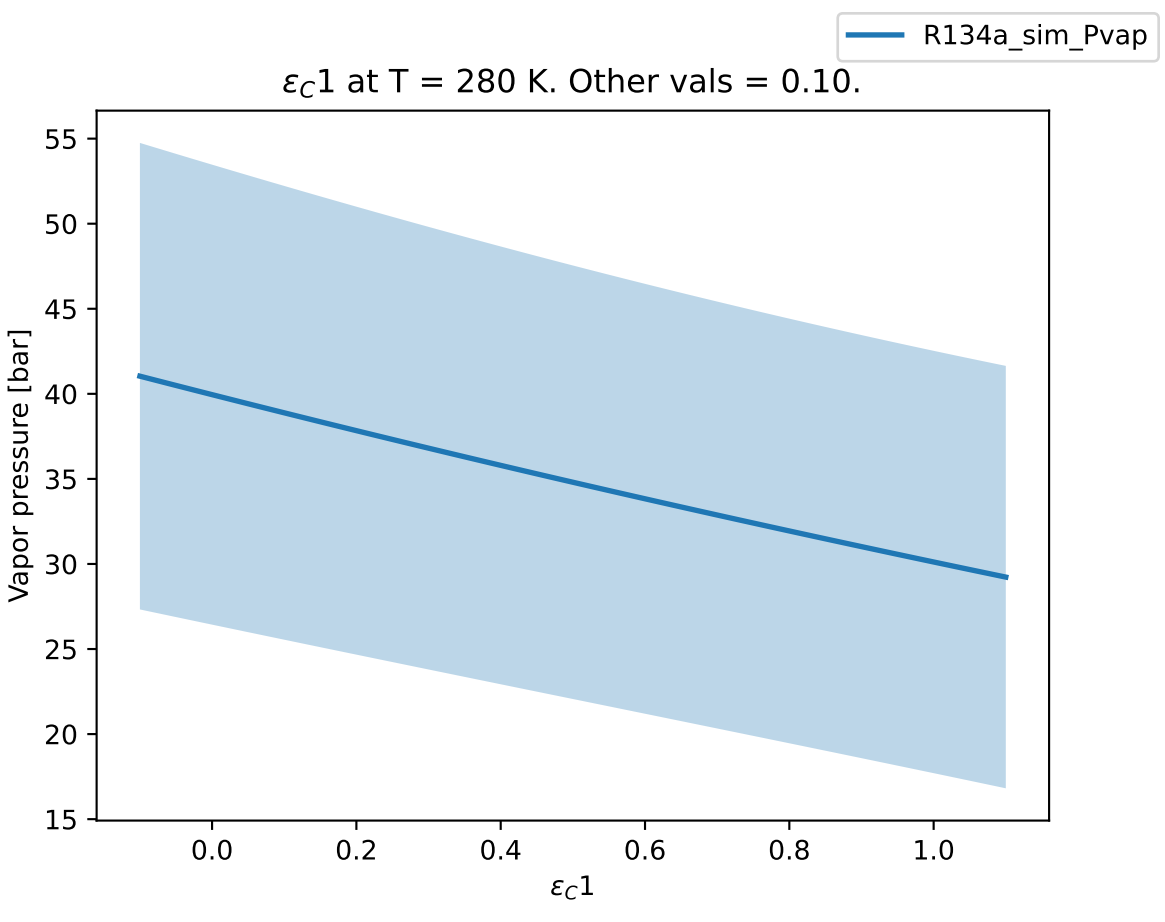

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

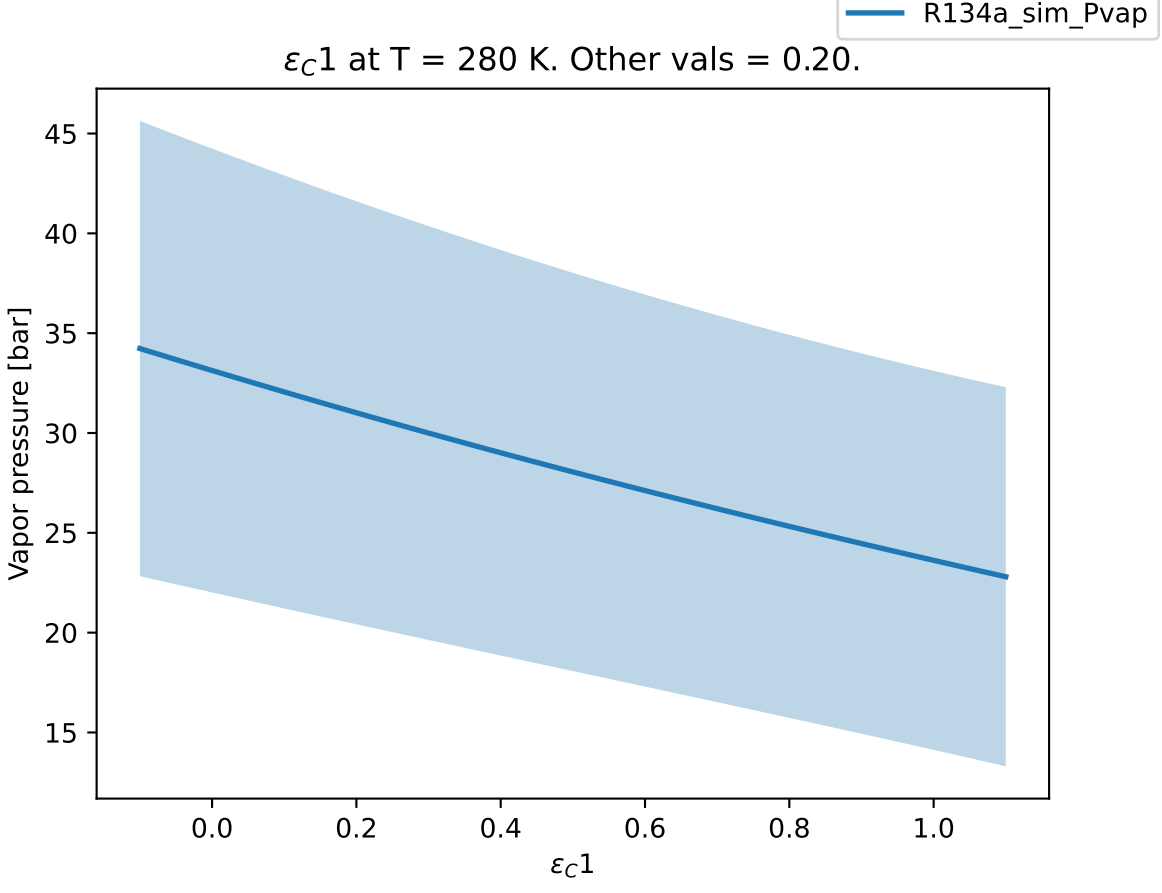

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
2
0
−2
−4
−6
−8
−10
−12
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

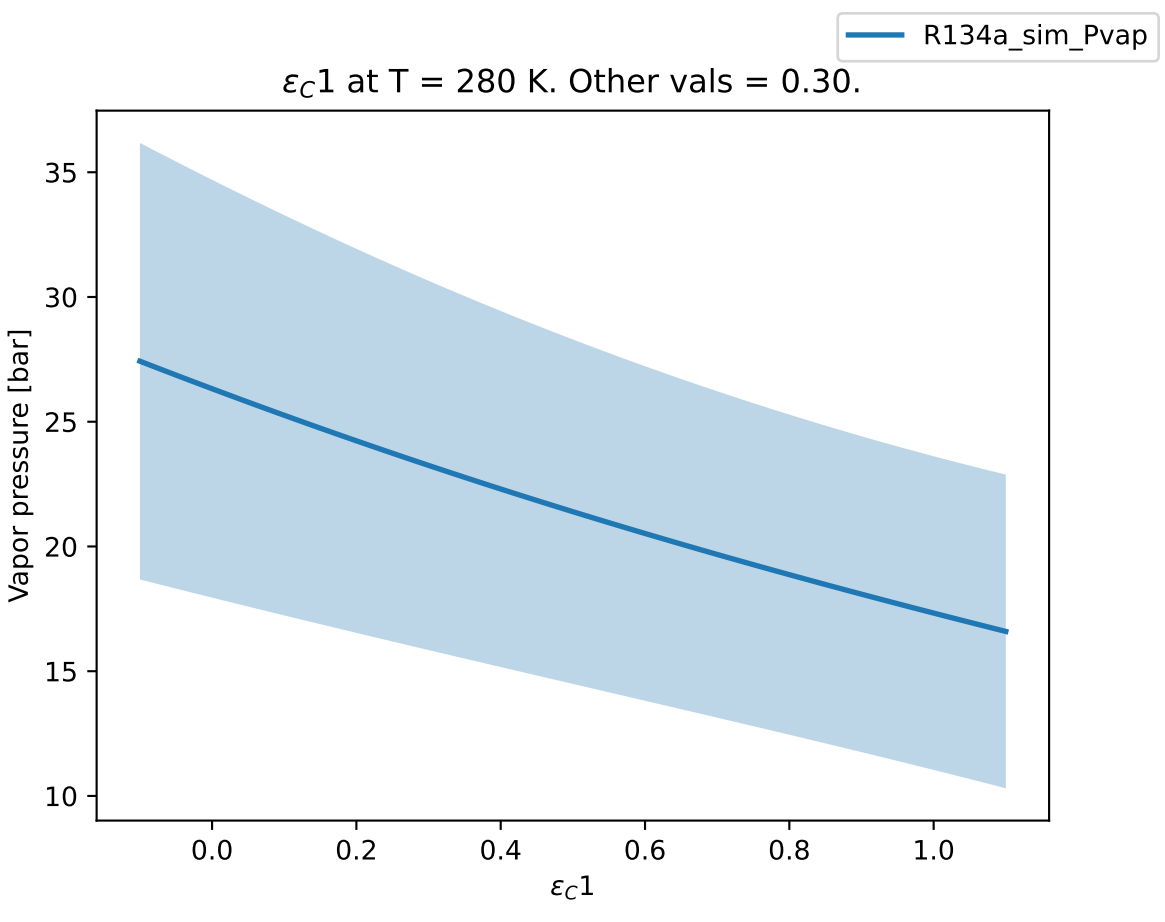

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

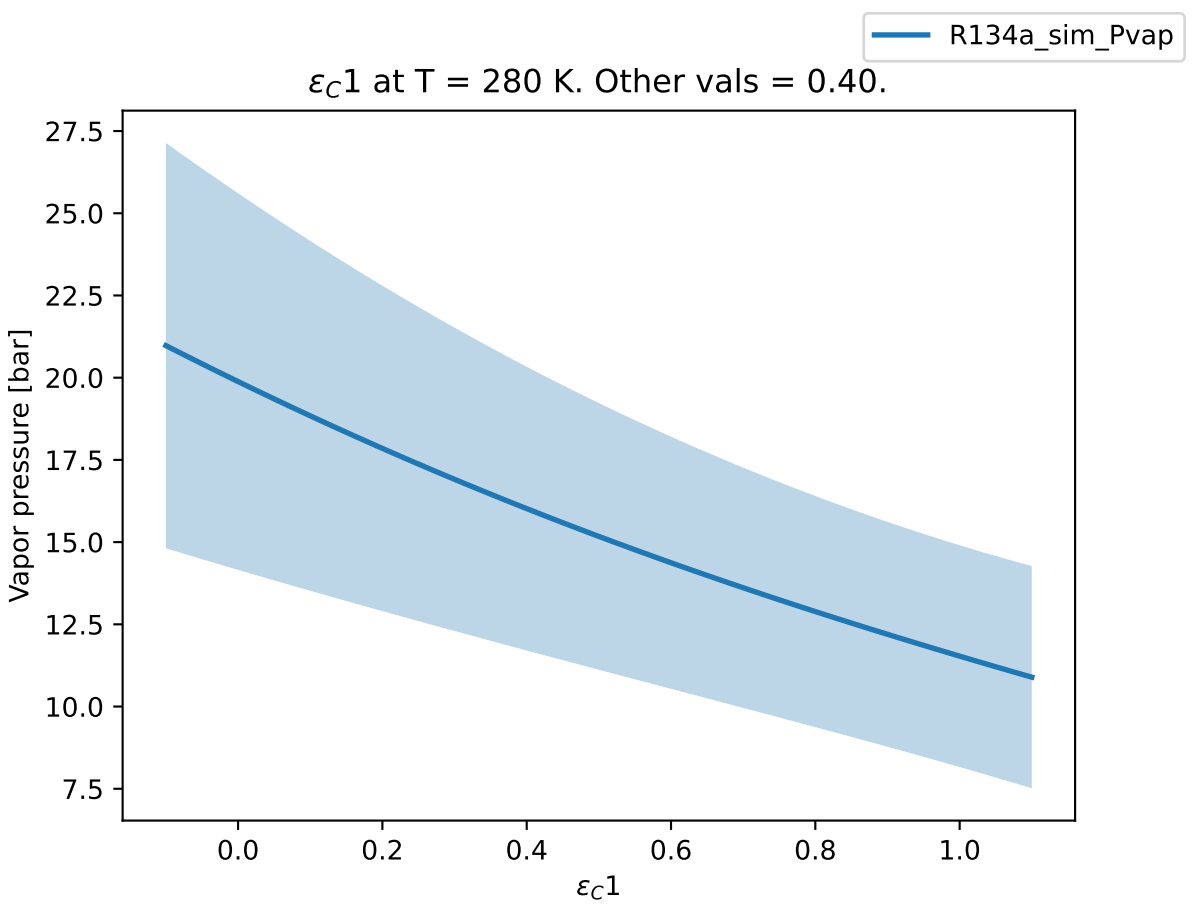

R134a_sim_Pvap
σ_H1 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
0
−5
−10
−15
−20
−25
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

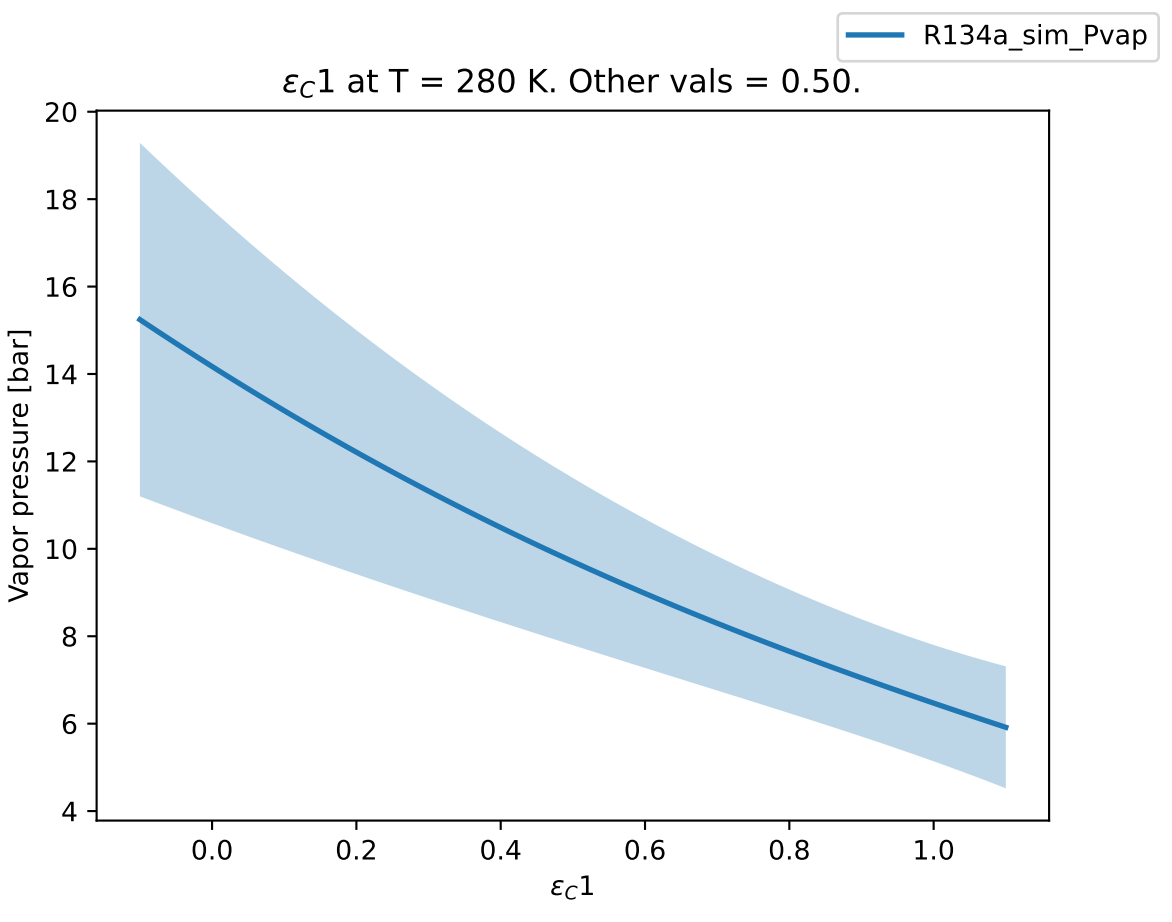

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

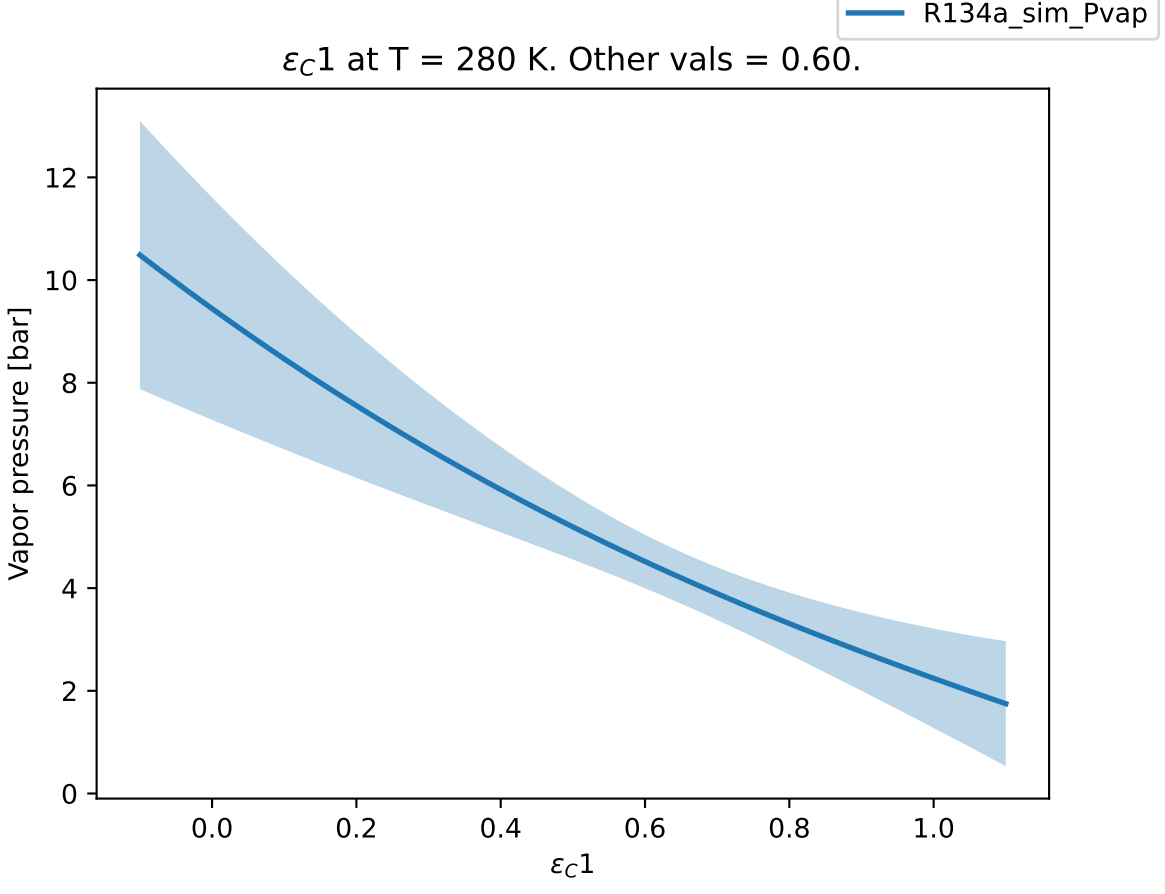

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
55
50
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

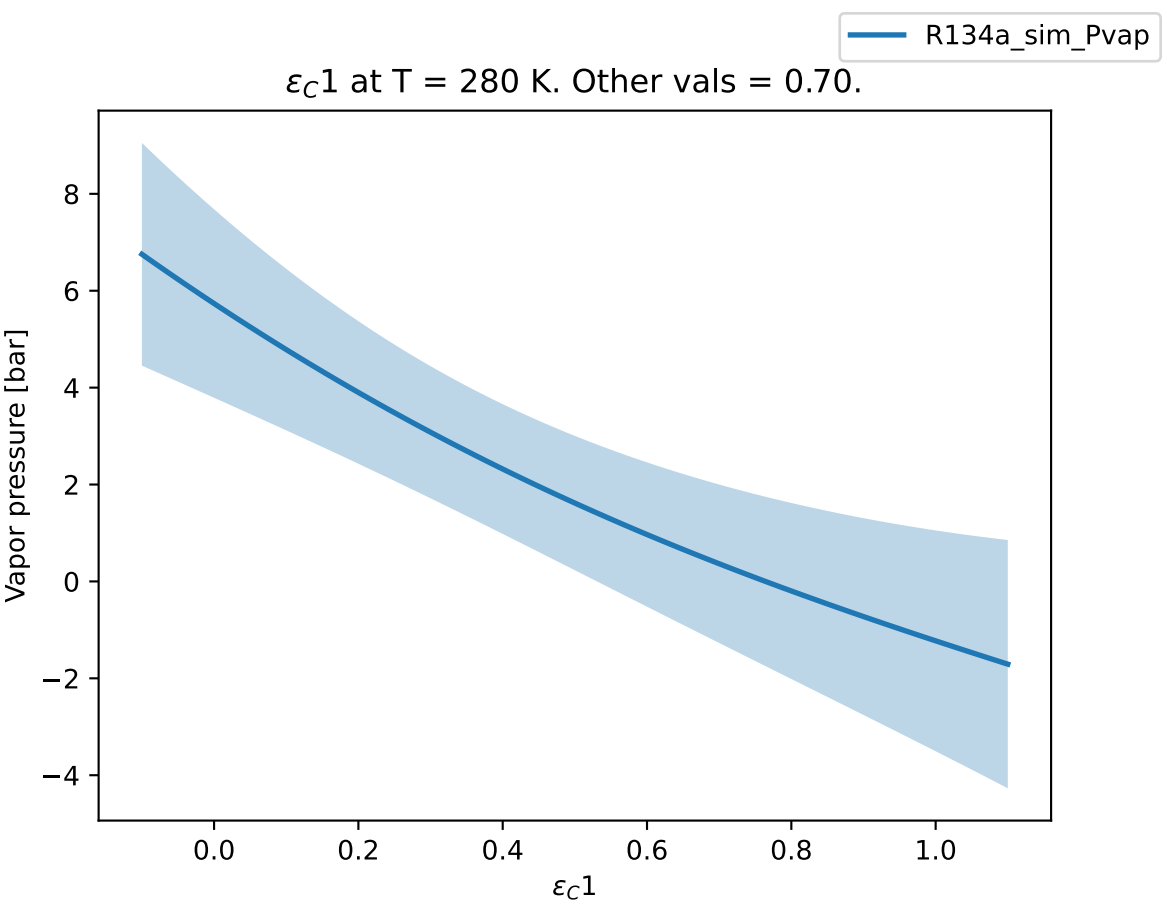

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

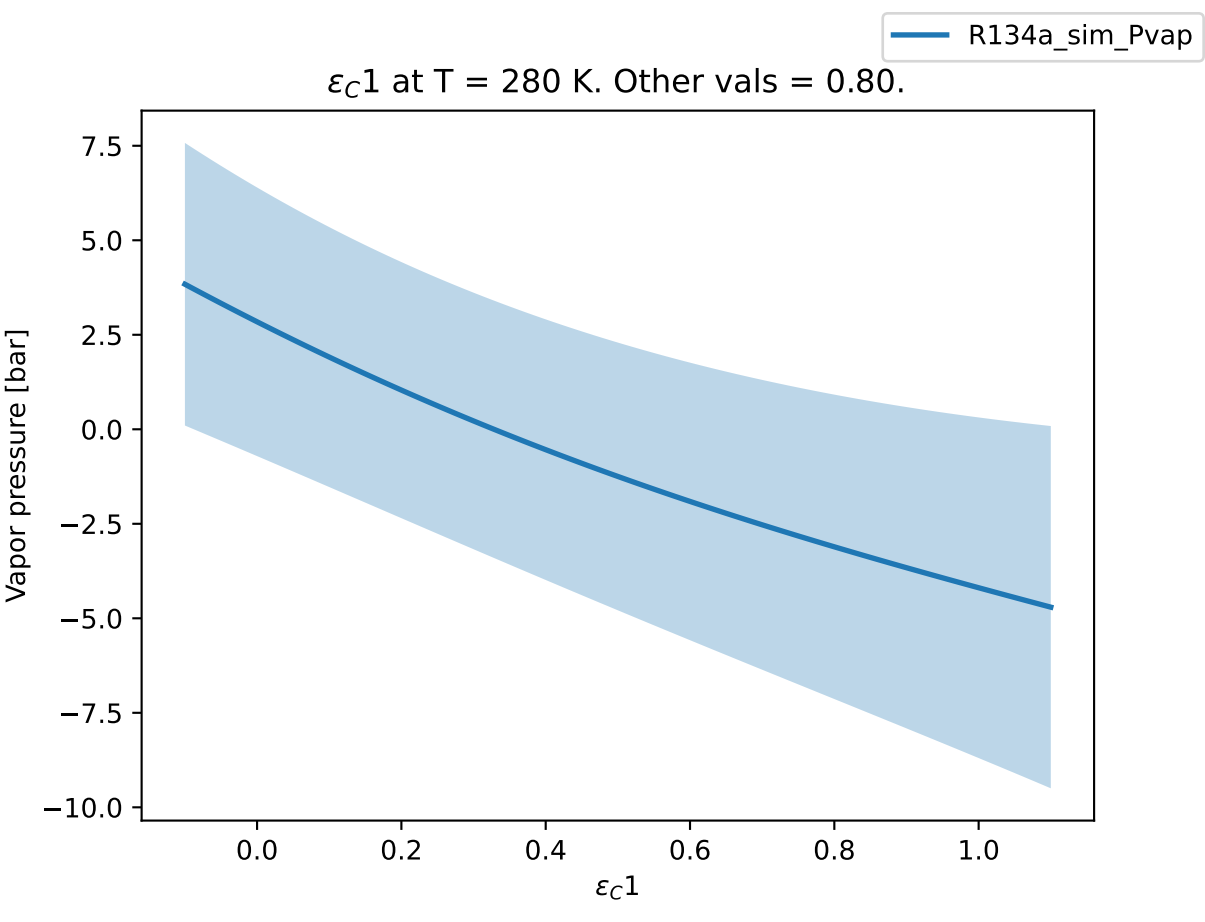

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
35
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

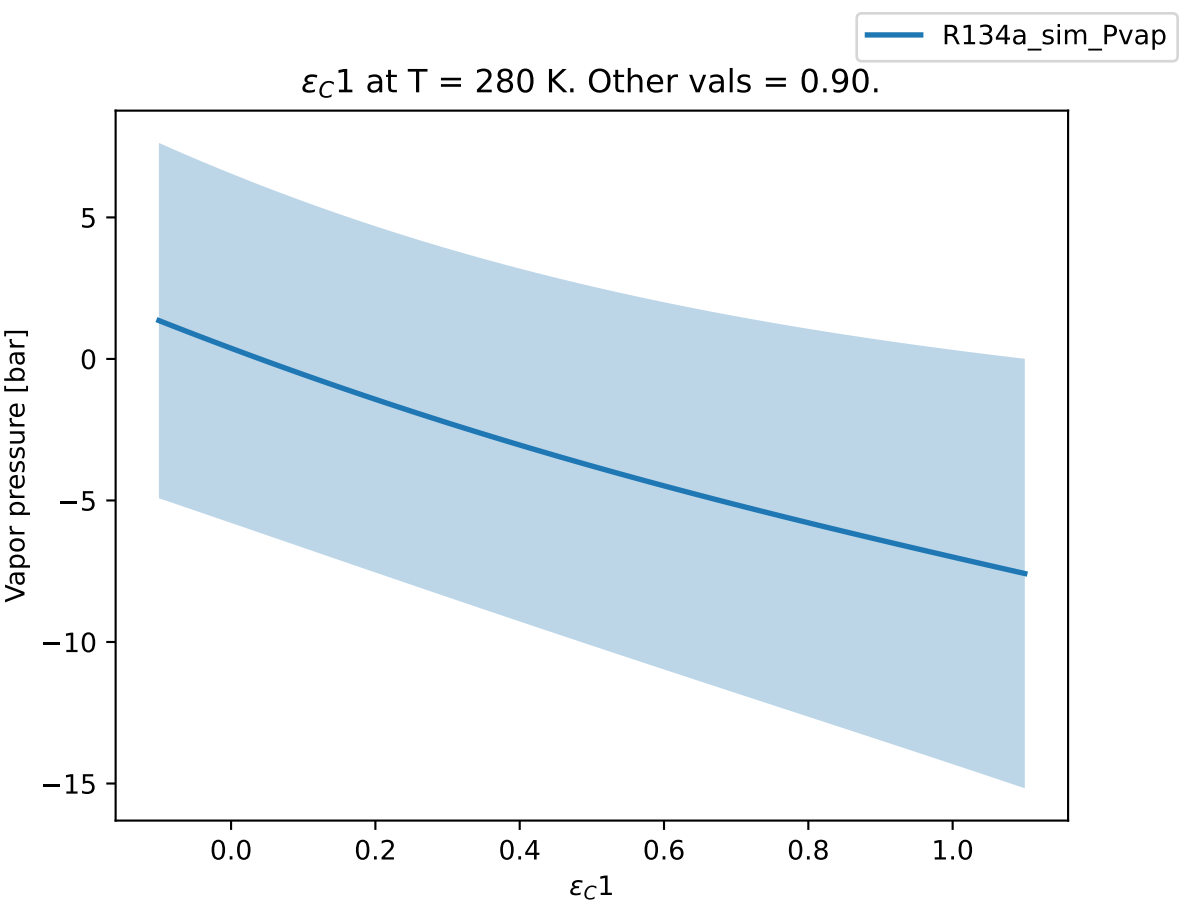

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

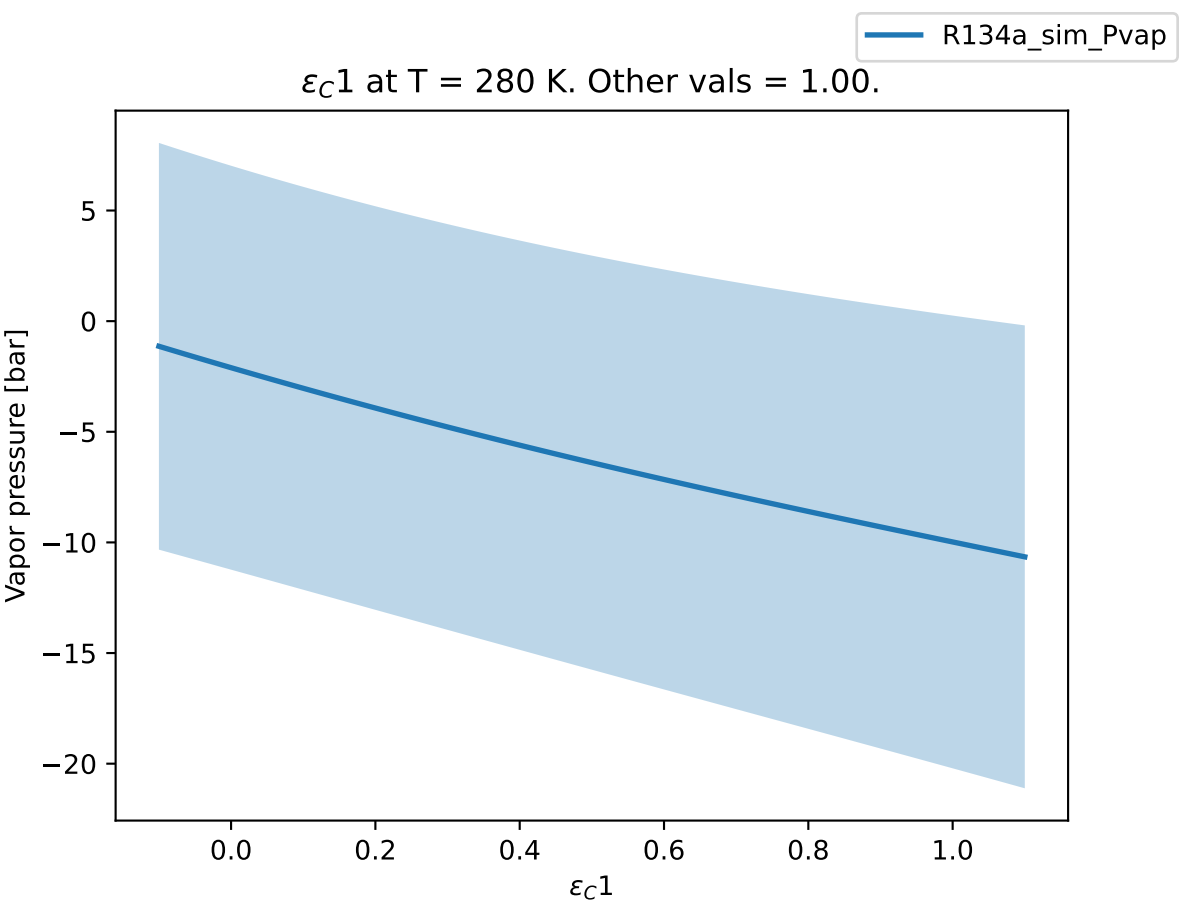

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
20
18
16
14
12
10
8
6
4
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

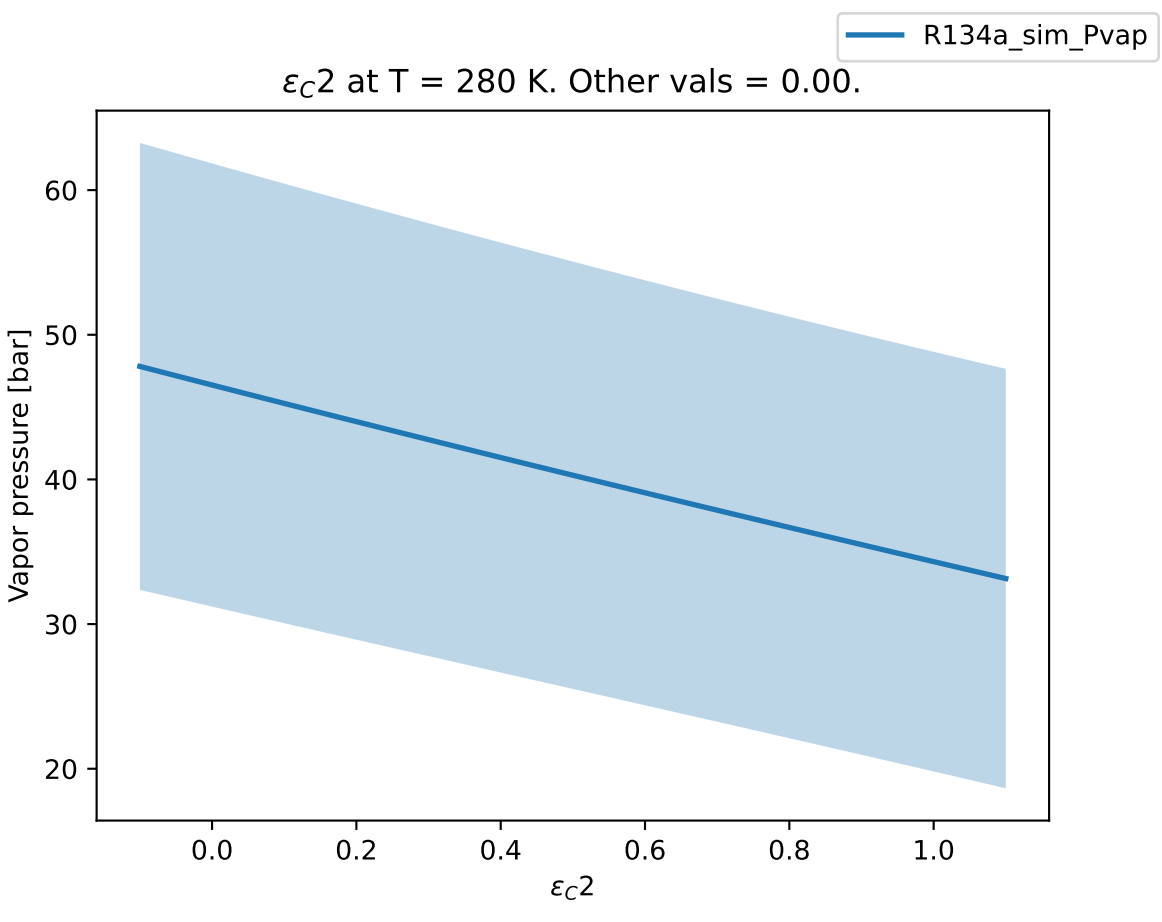

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
0
2
4
6
8
10
12
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

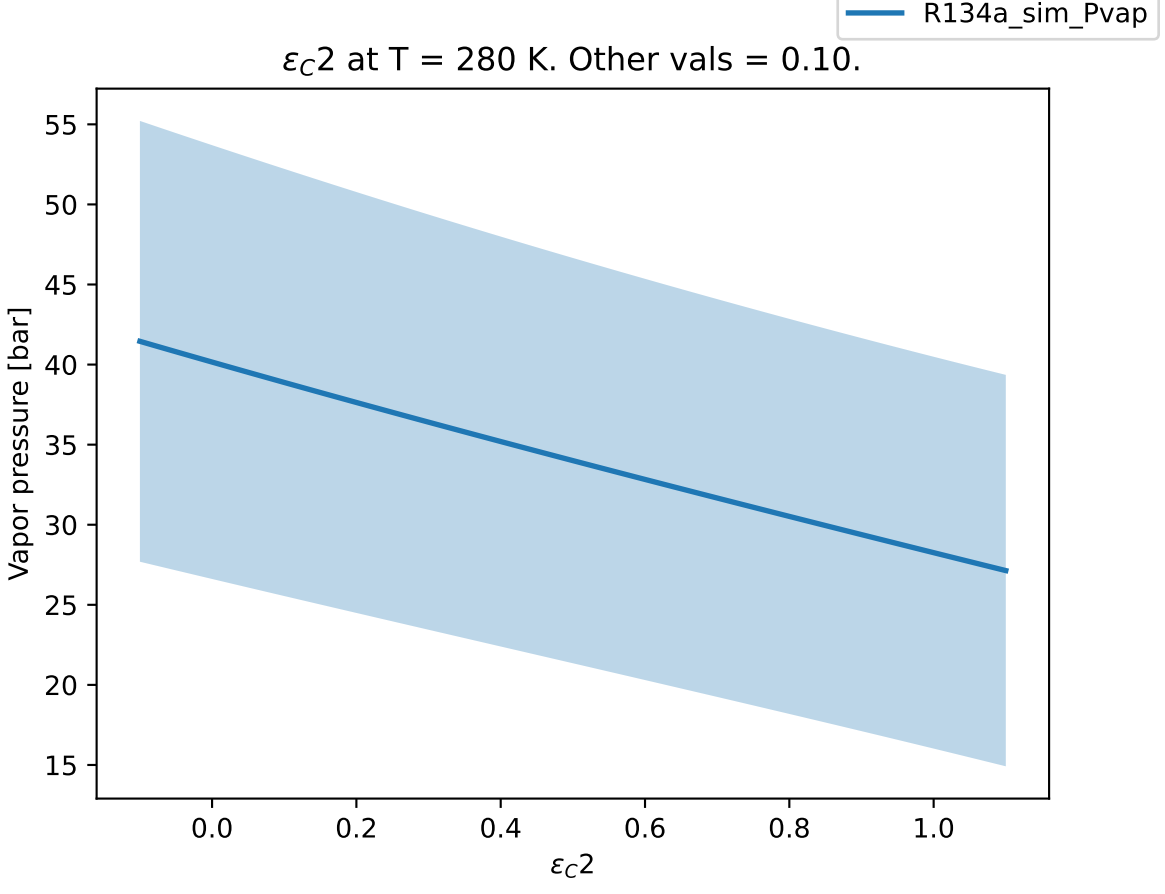

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
8
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

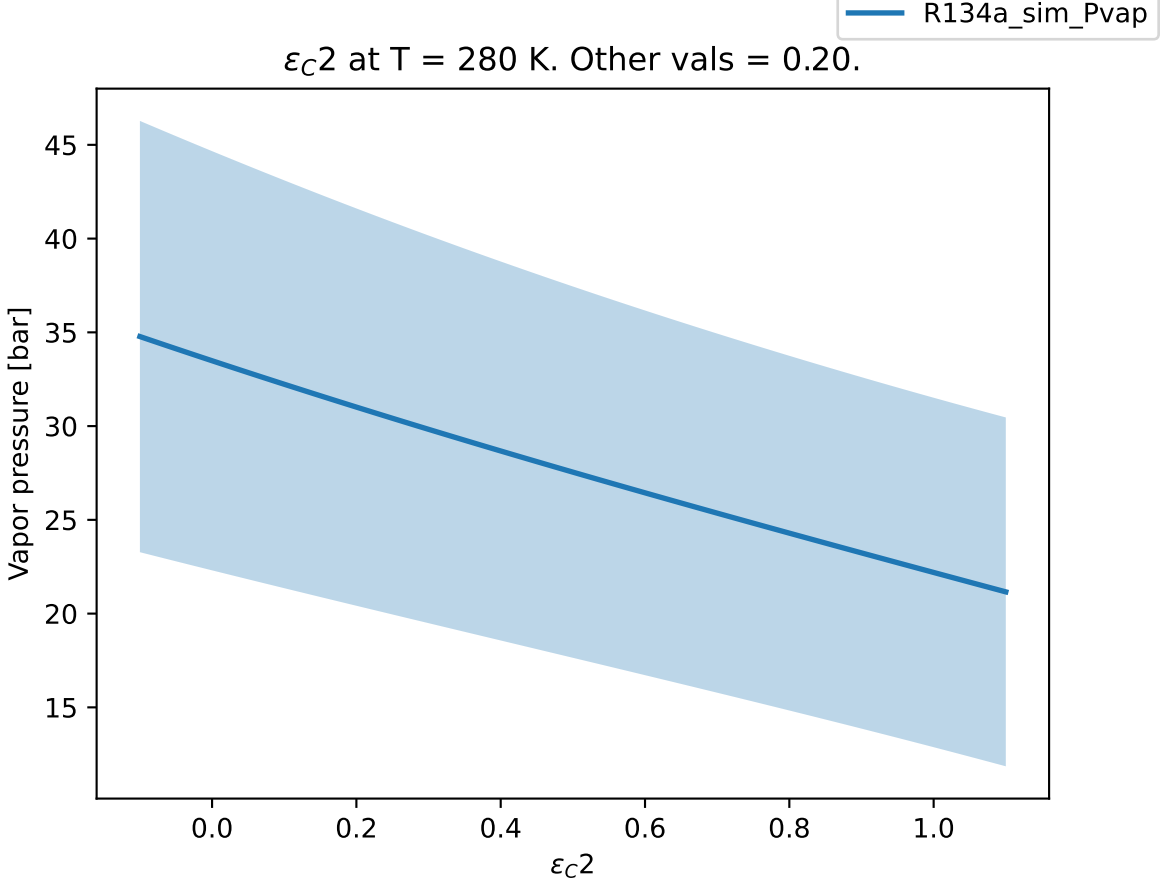

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

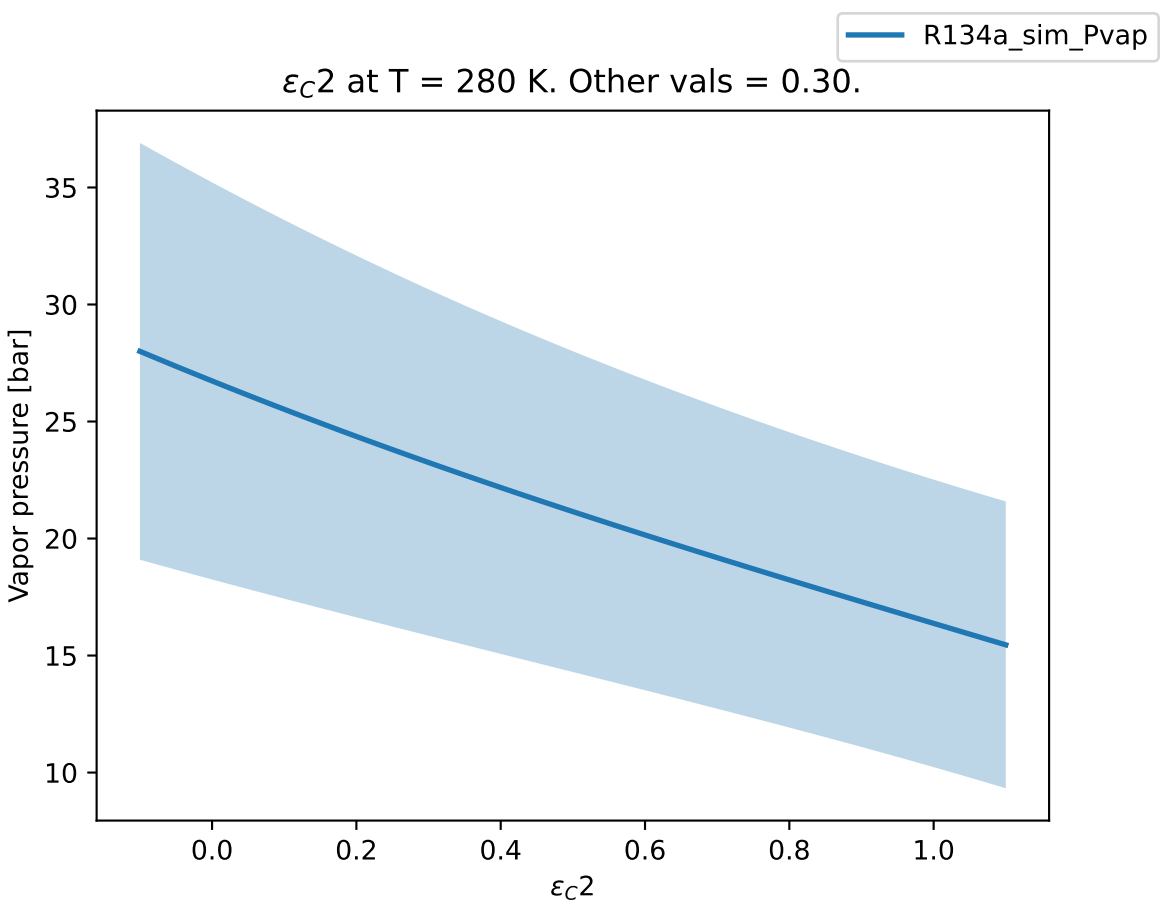

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

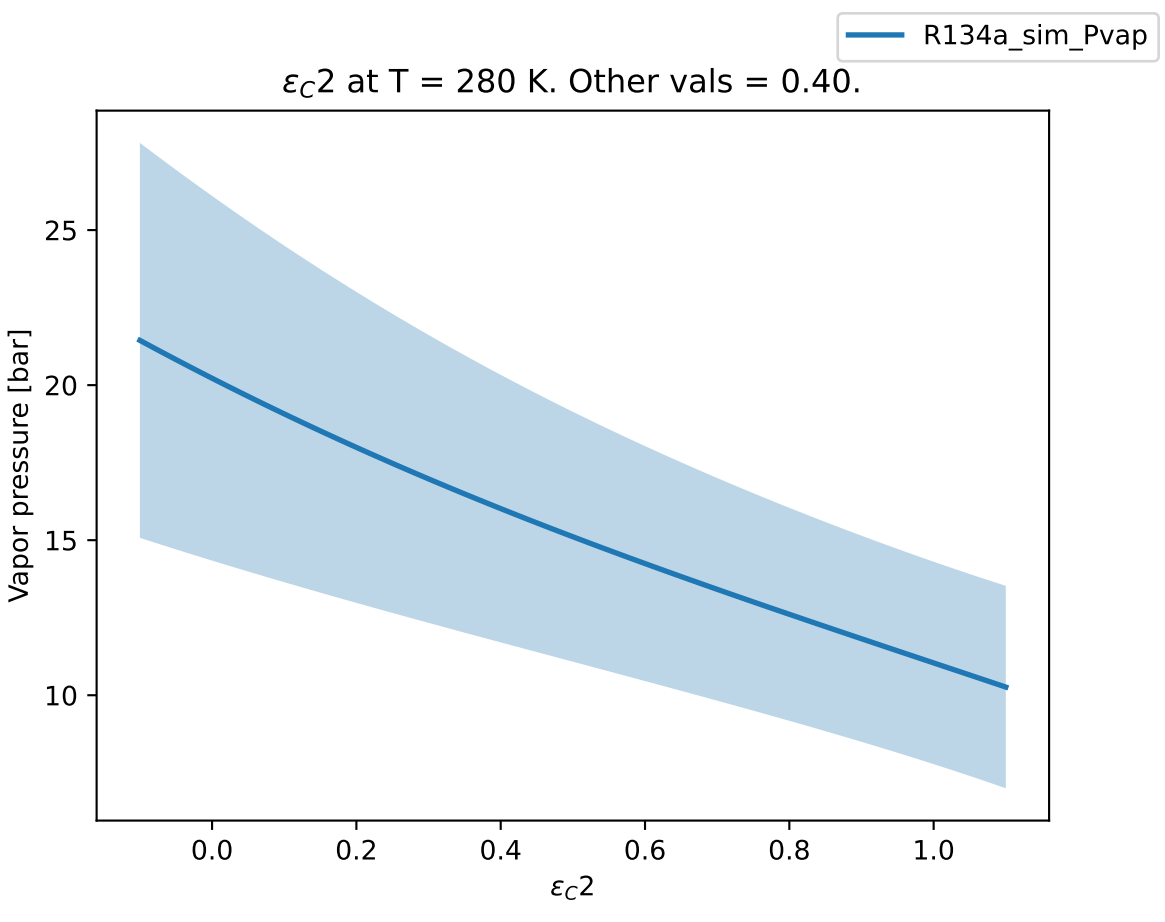

R134a_sim_Pvap
ε_C1 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

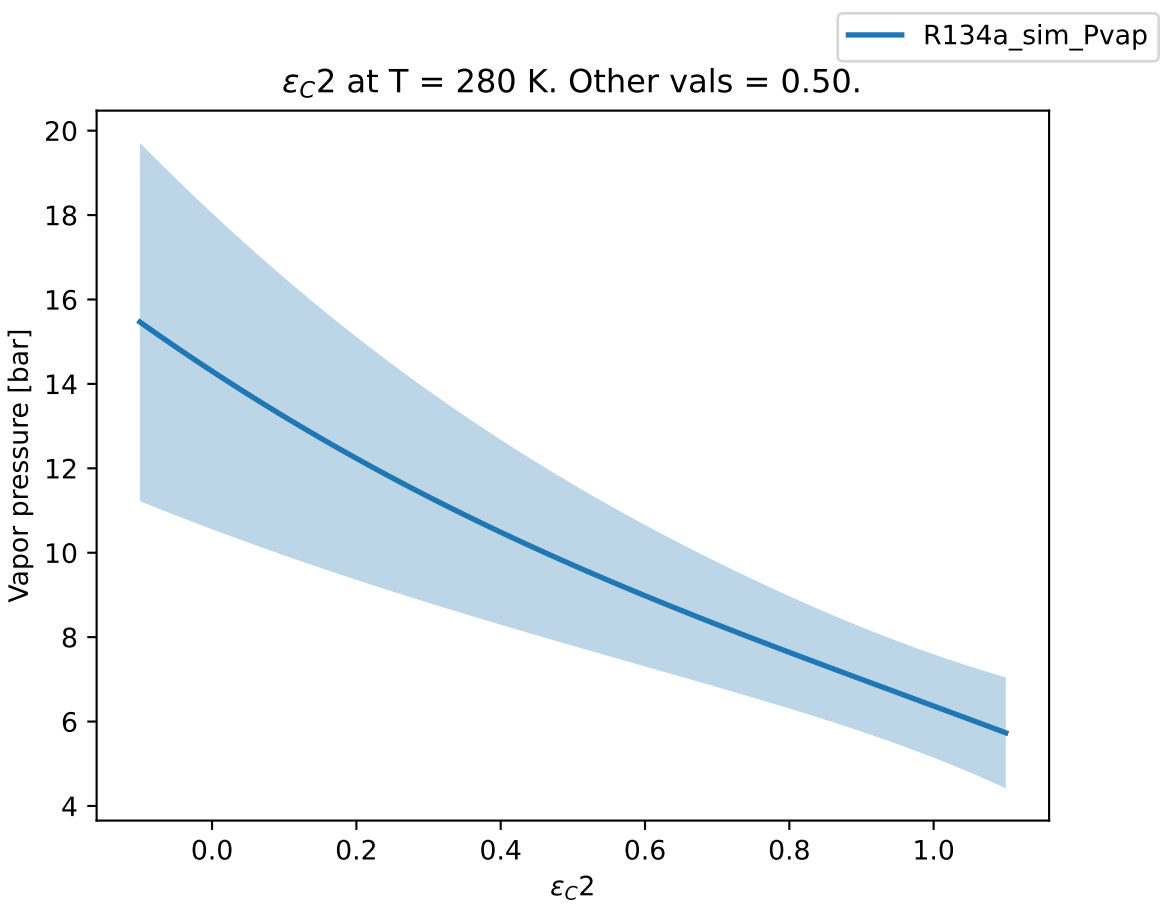

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

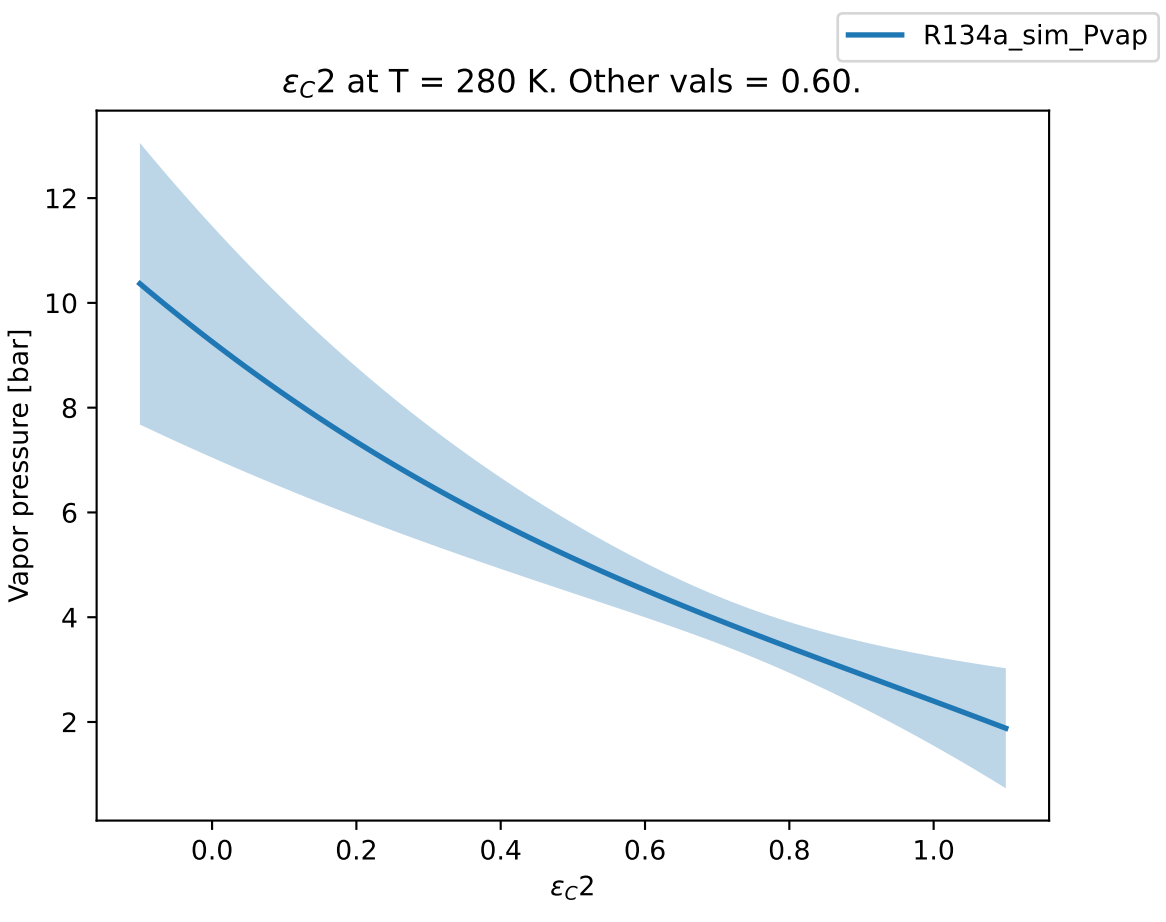

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
55
50
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

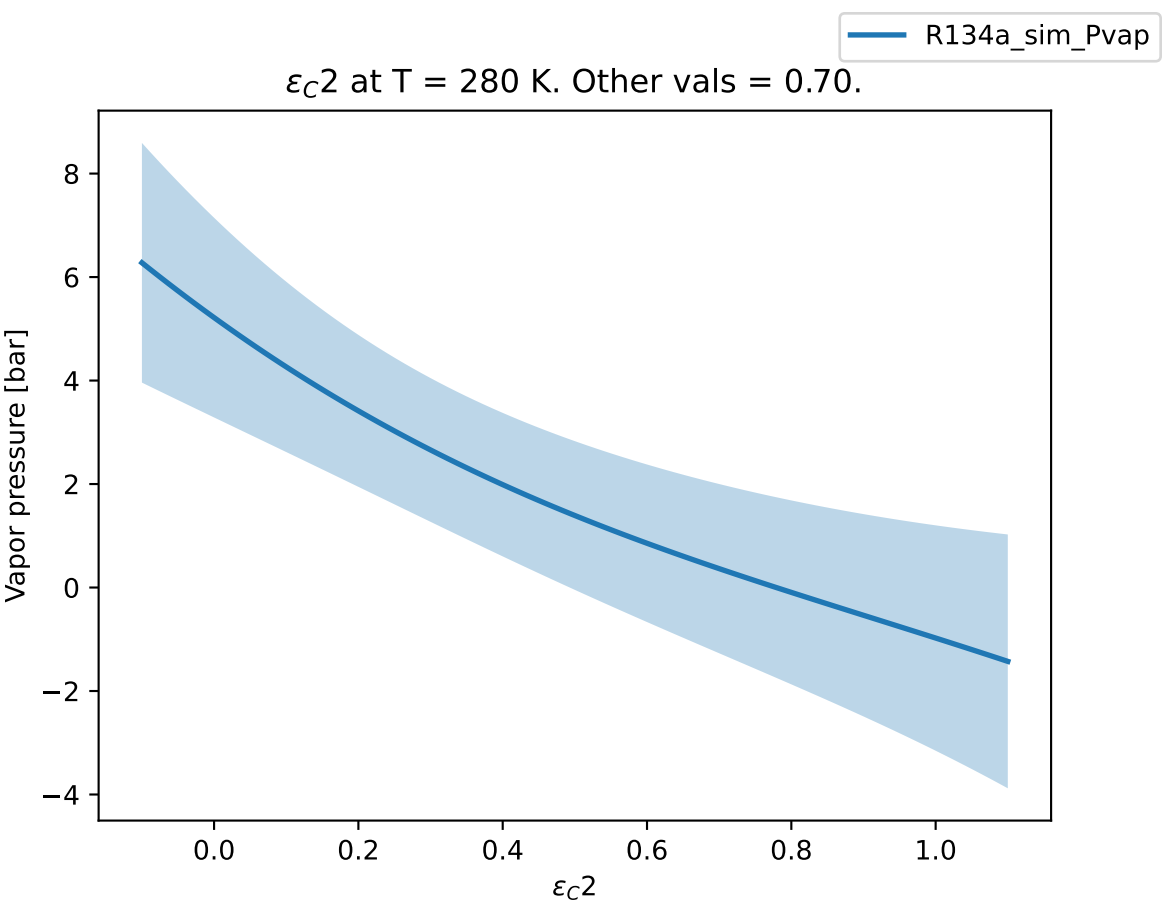

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

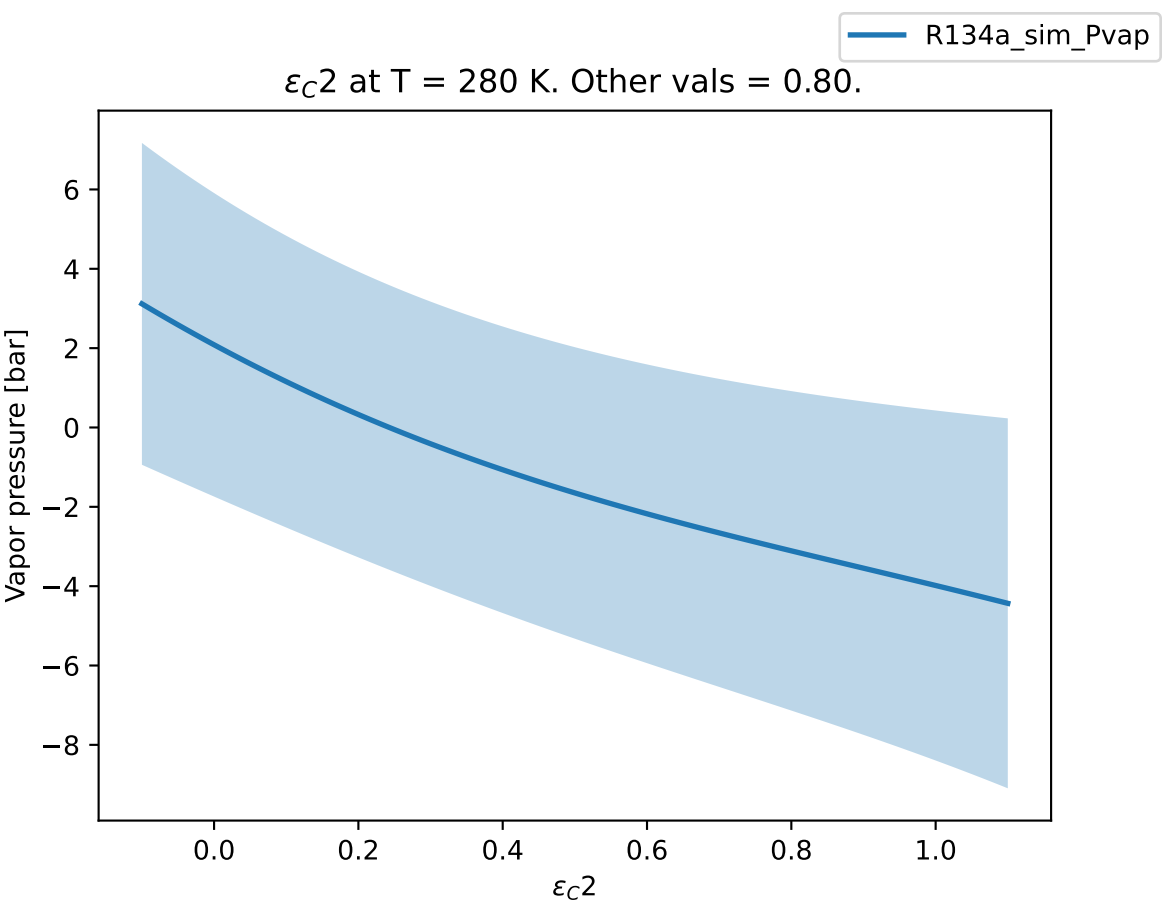

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
35
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

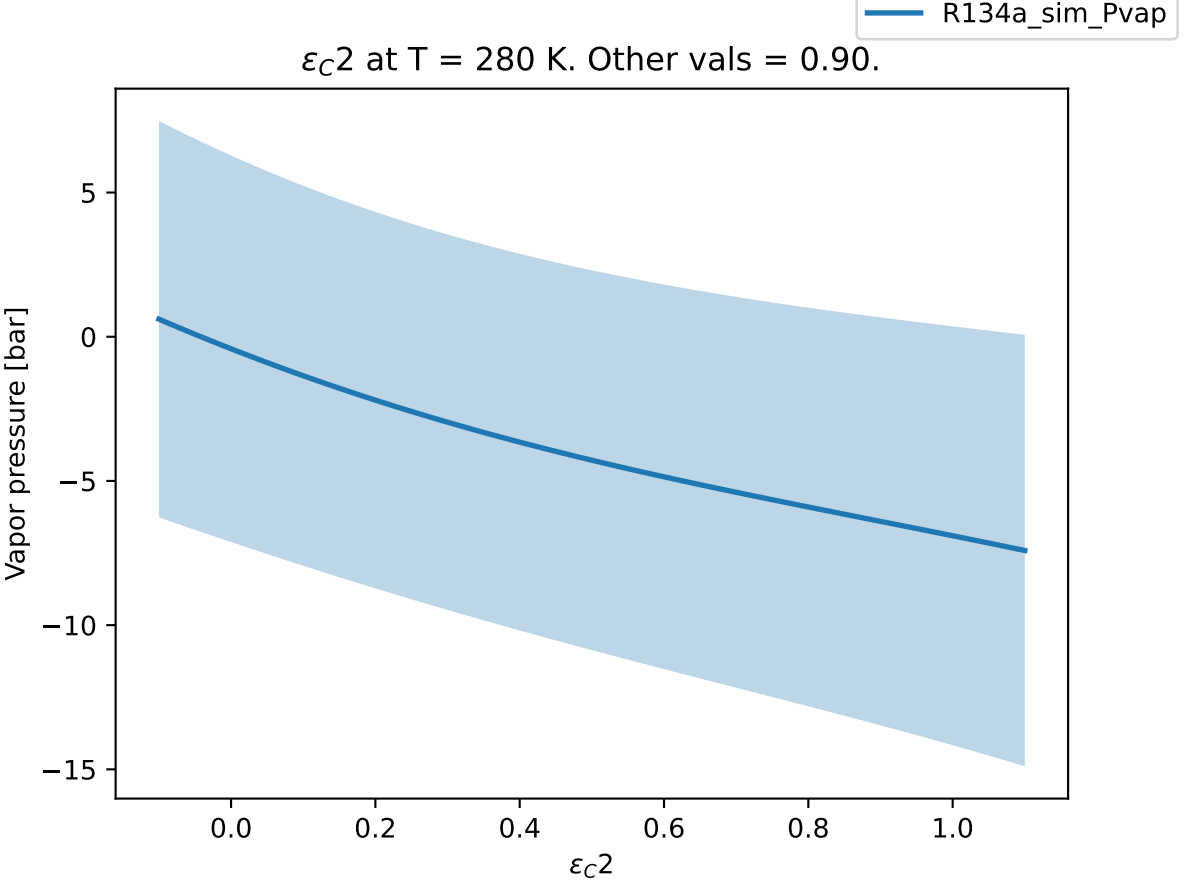

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

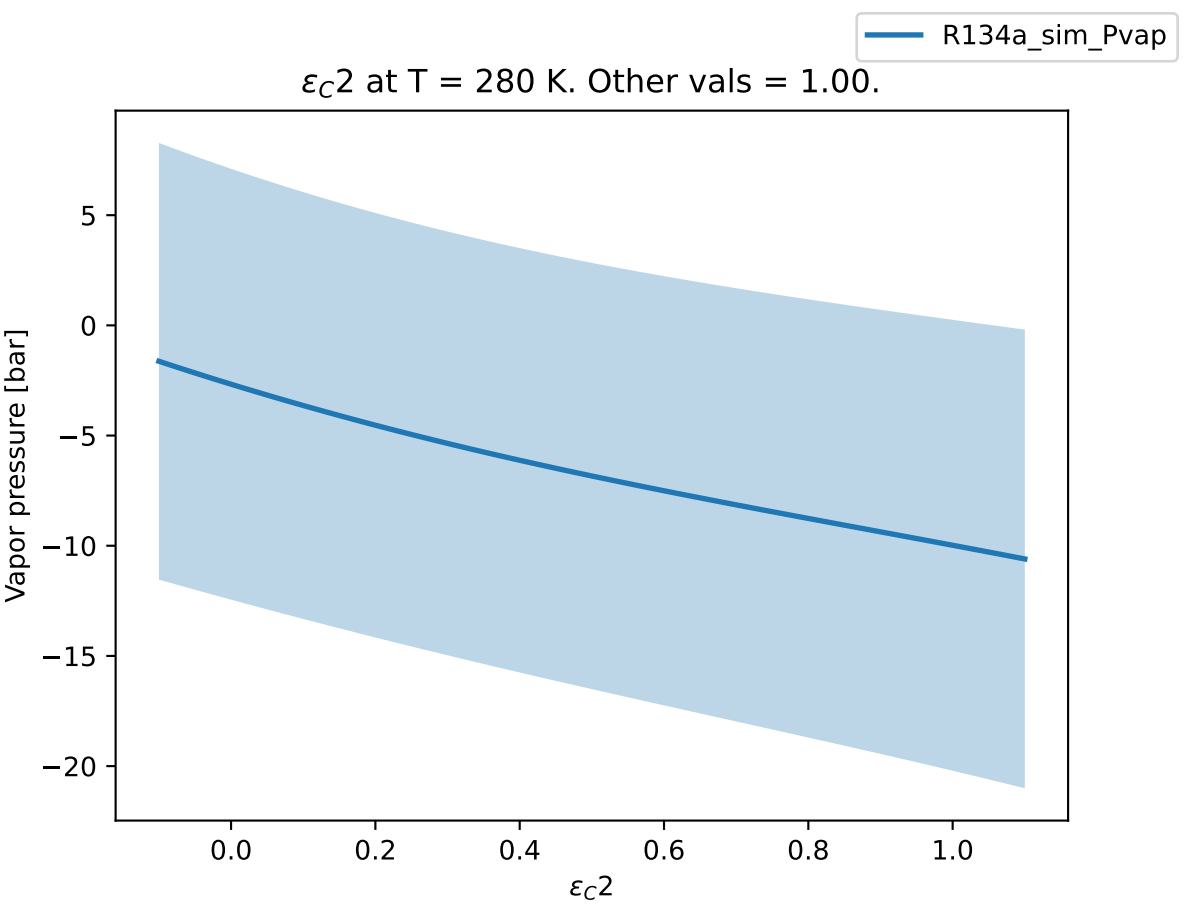

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
20
18
16
14
12
10
8
6
4
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

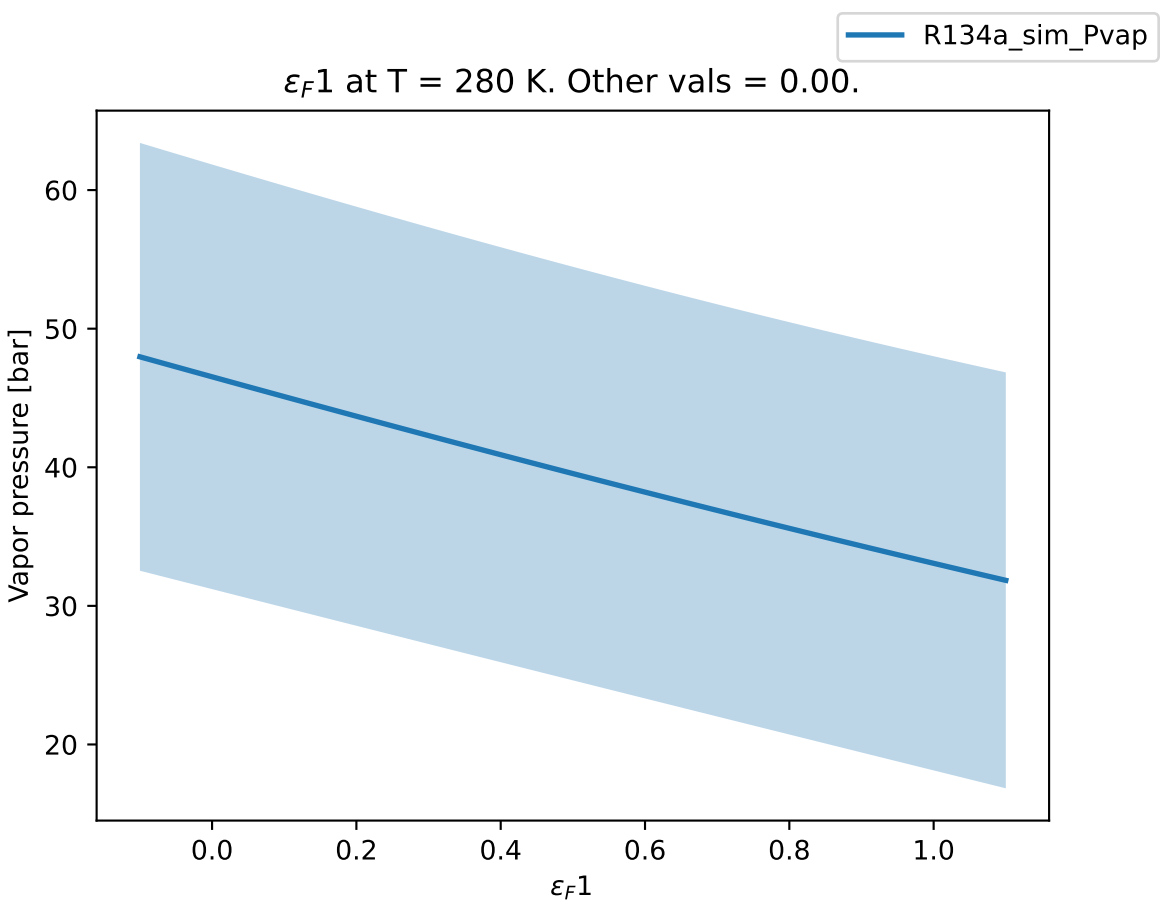

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
12
10
8
6
4
2
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

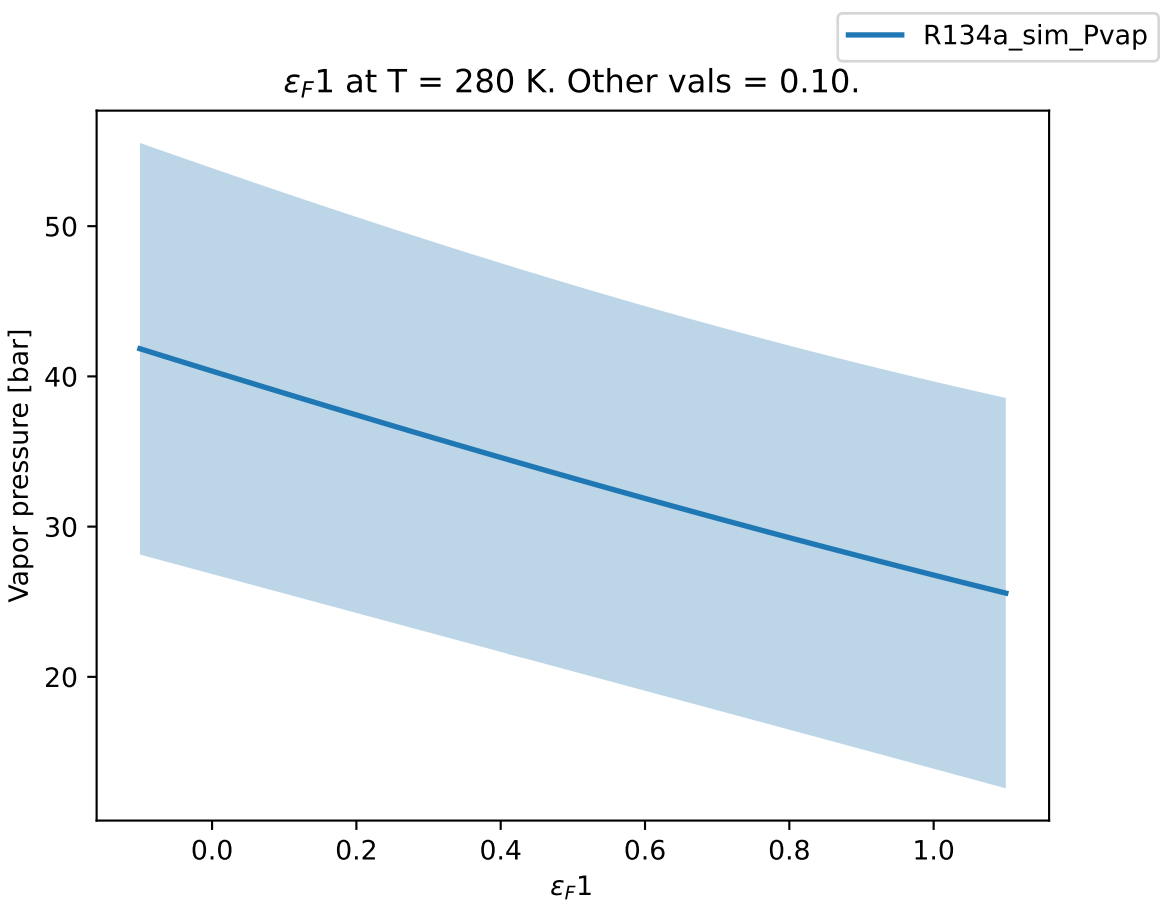

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
8
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

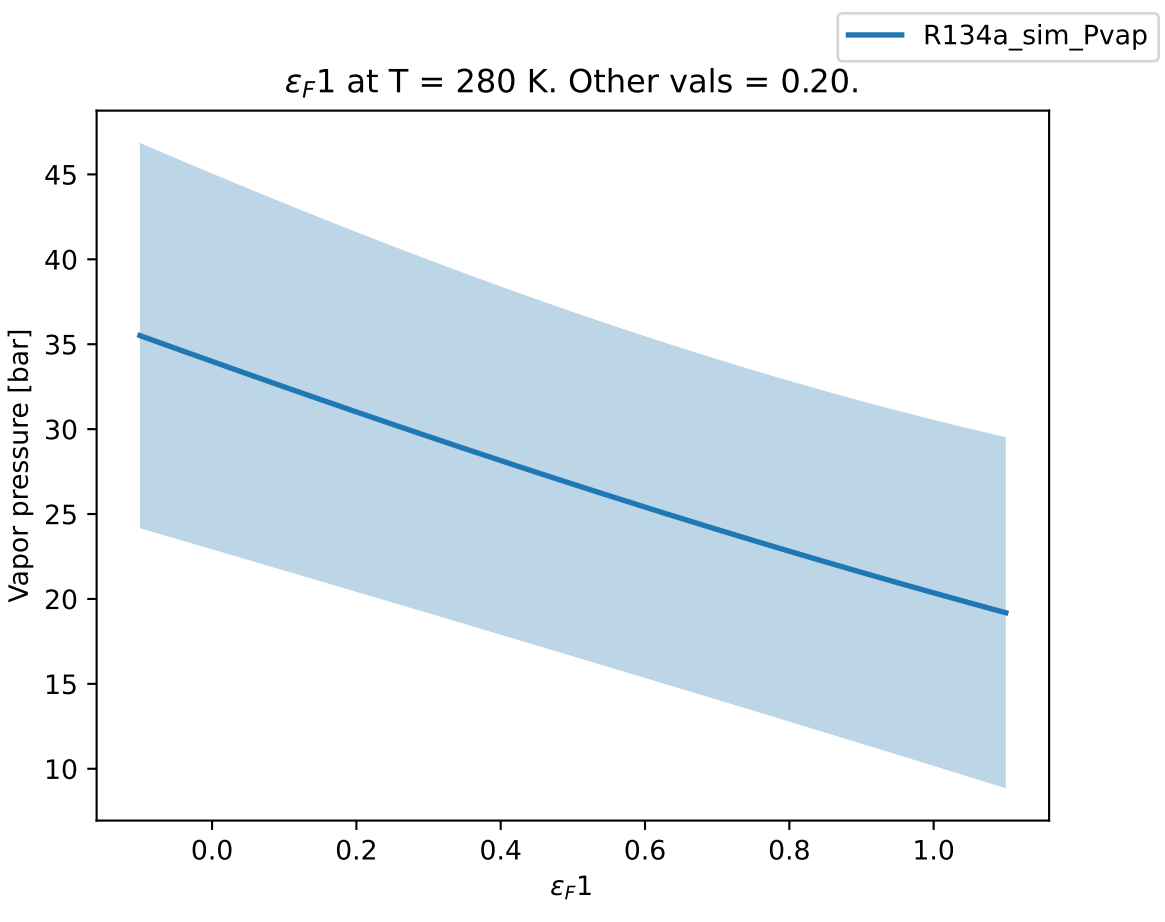

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
6
4
2
0
−2
−4
−6
−8
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

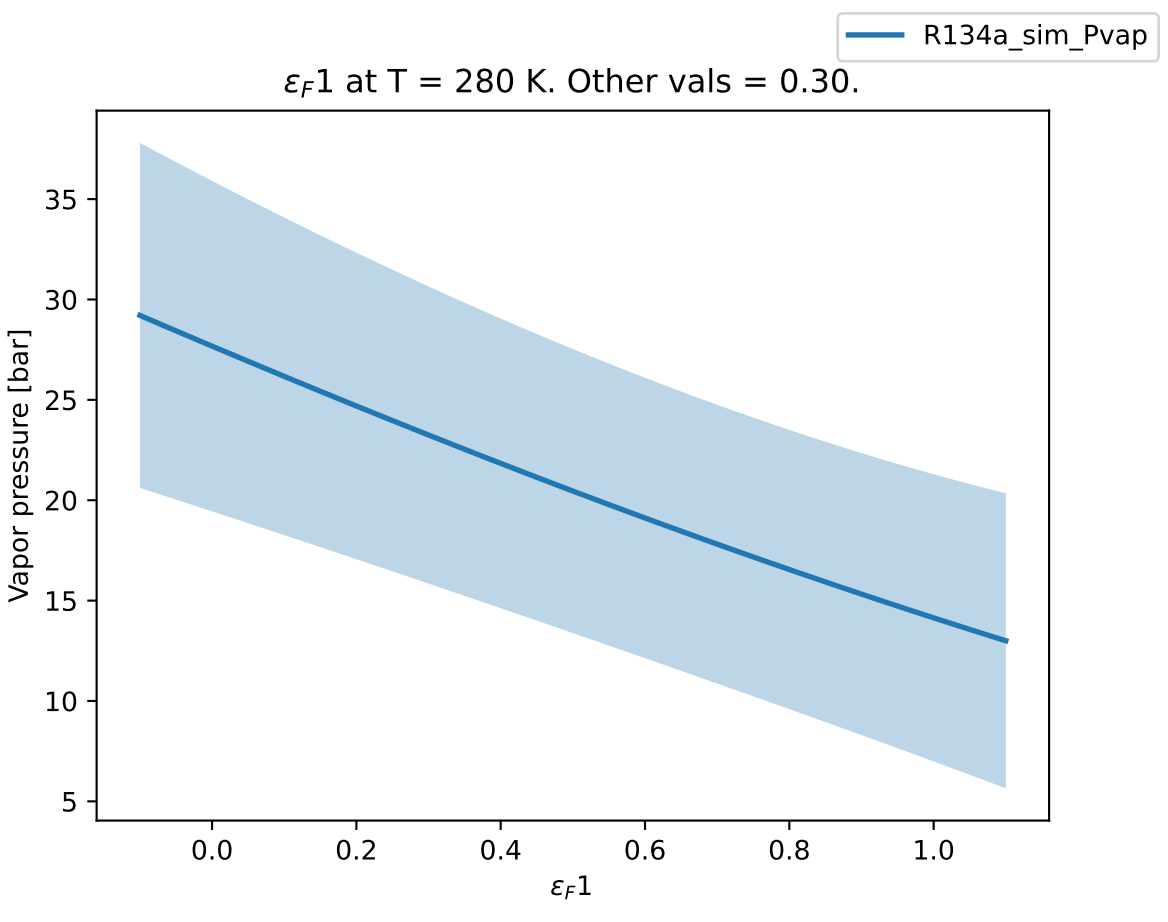

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

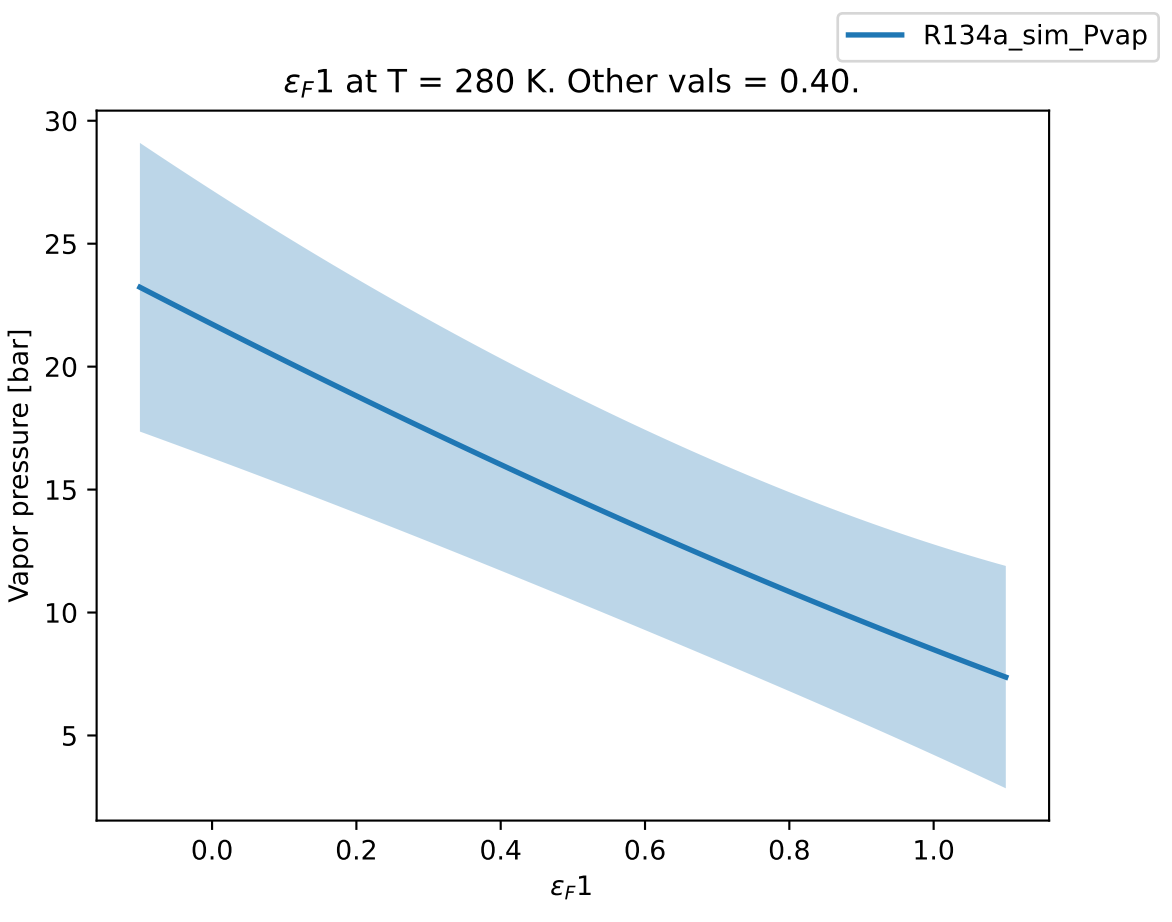

R134a_sim_Pvap
ε_C2 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

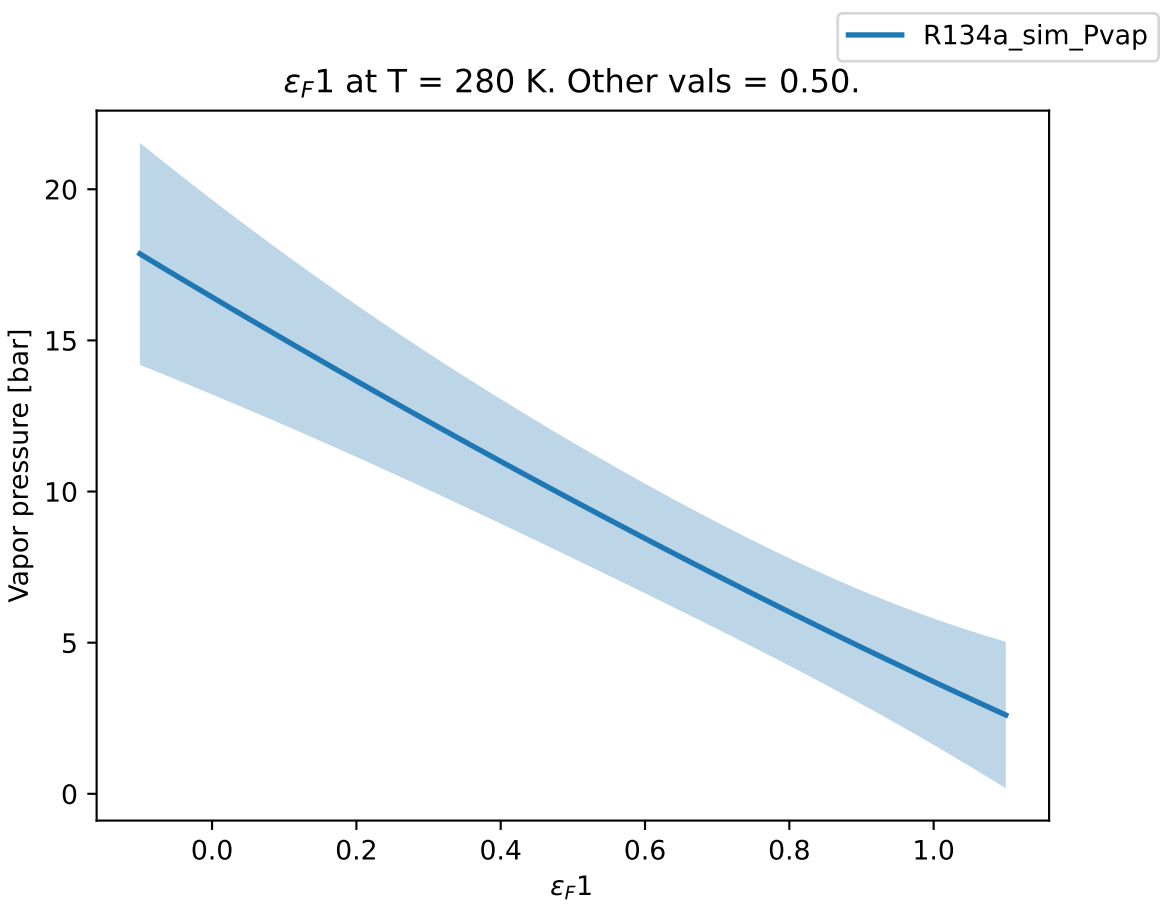

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

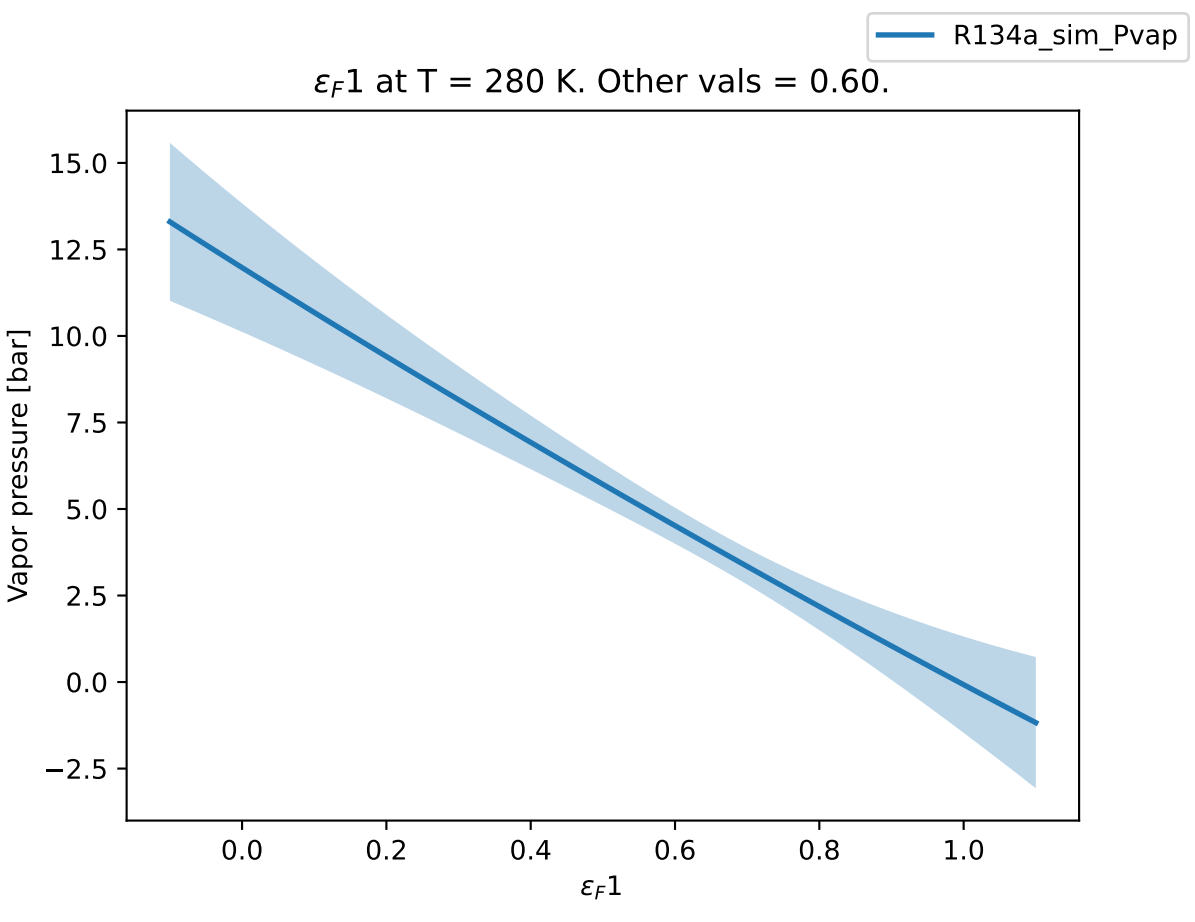

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

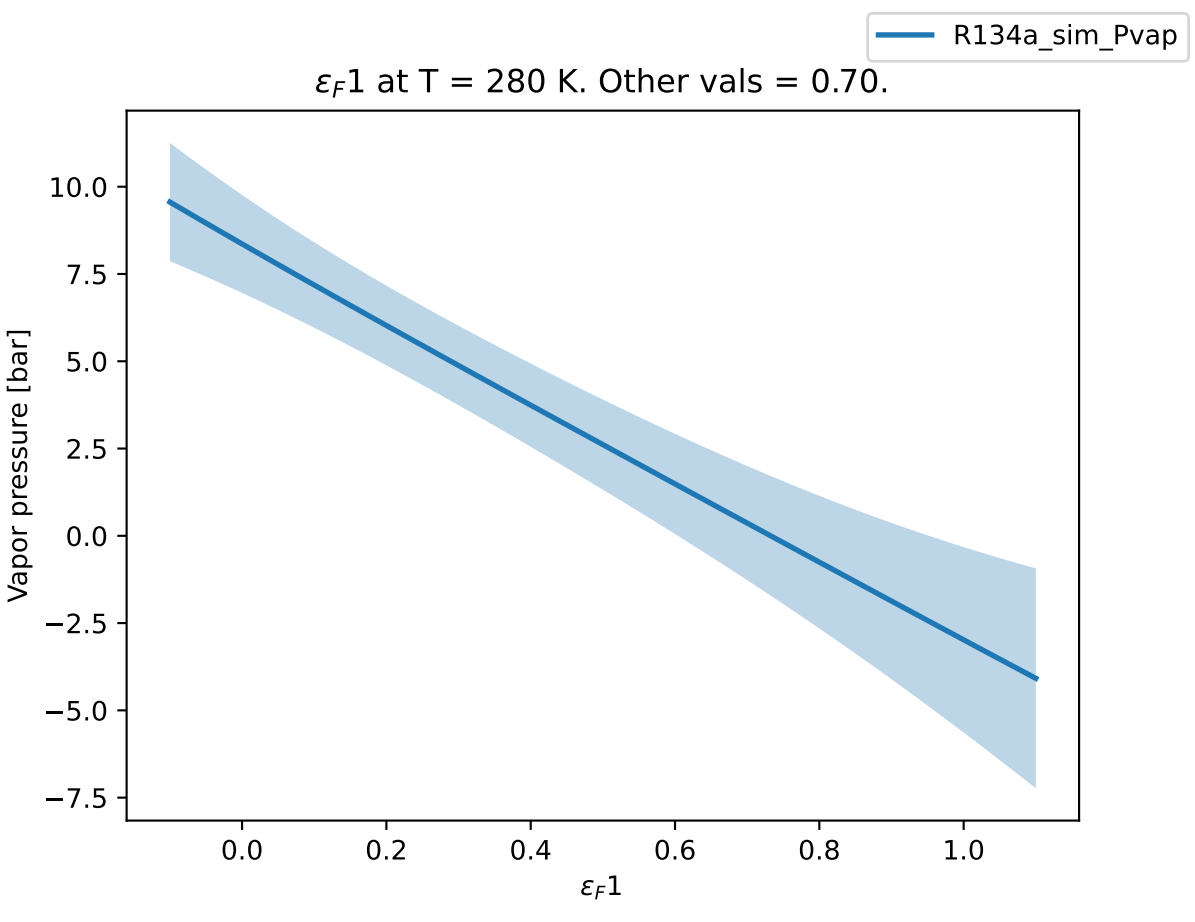

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

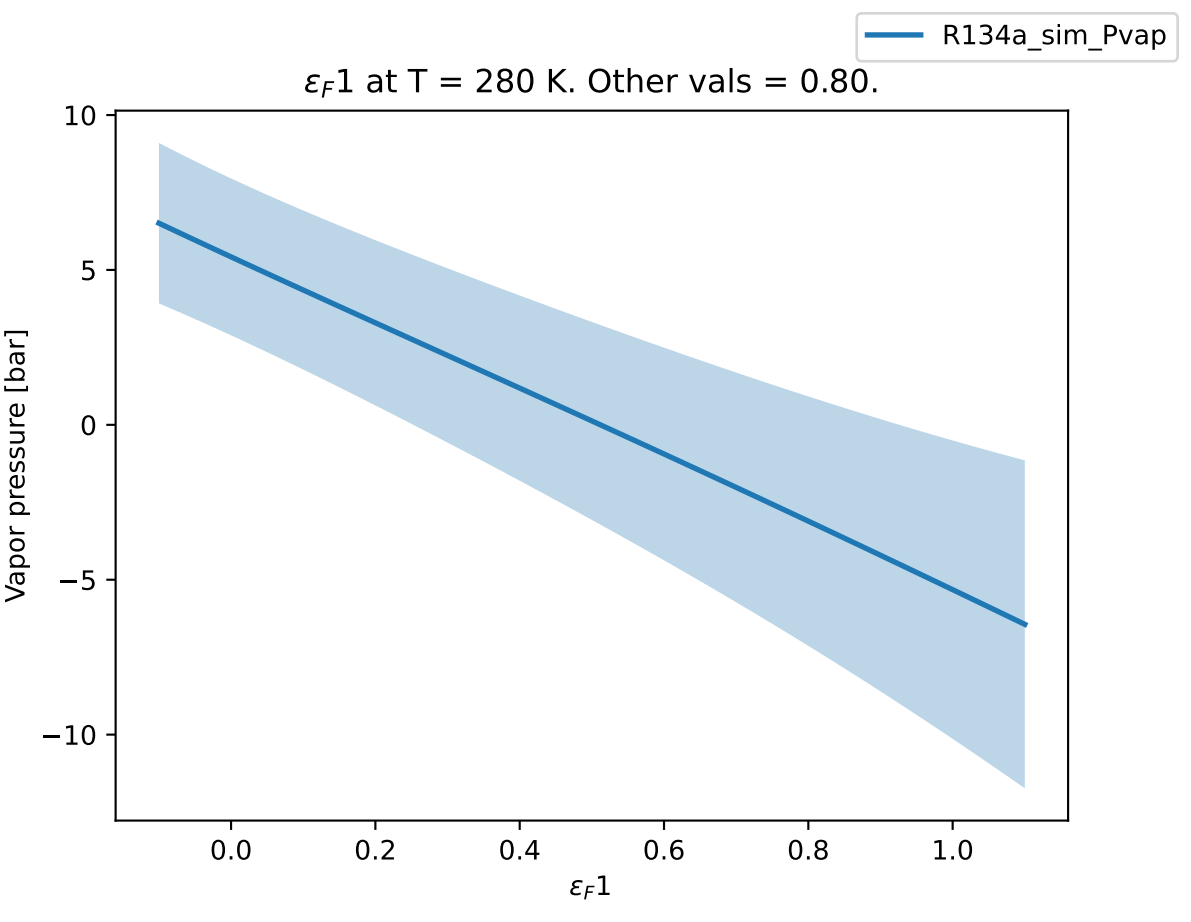

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
35
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

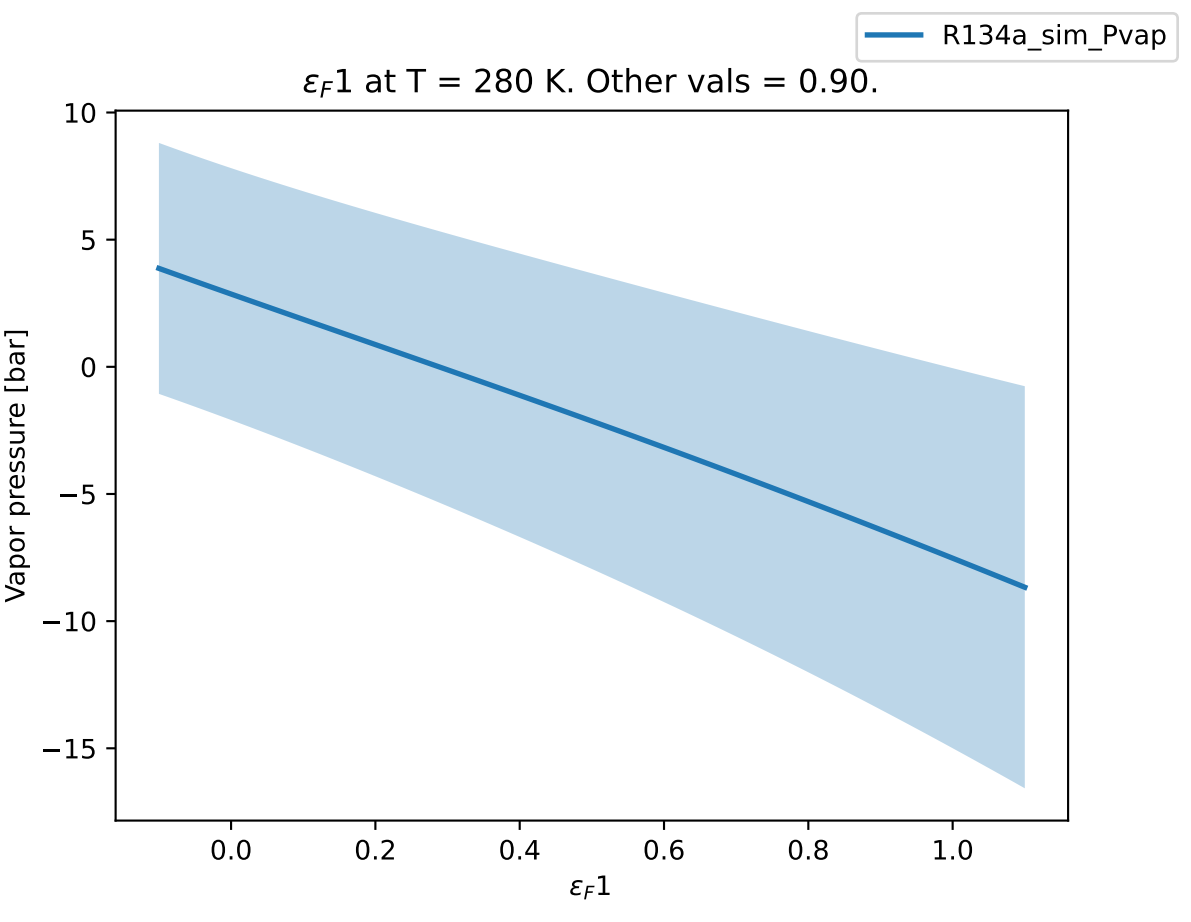

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

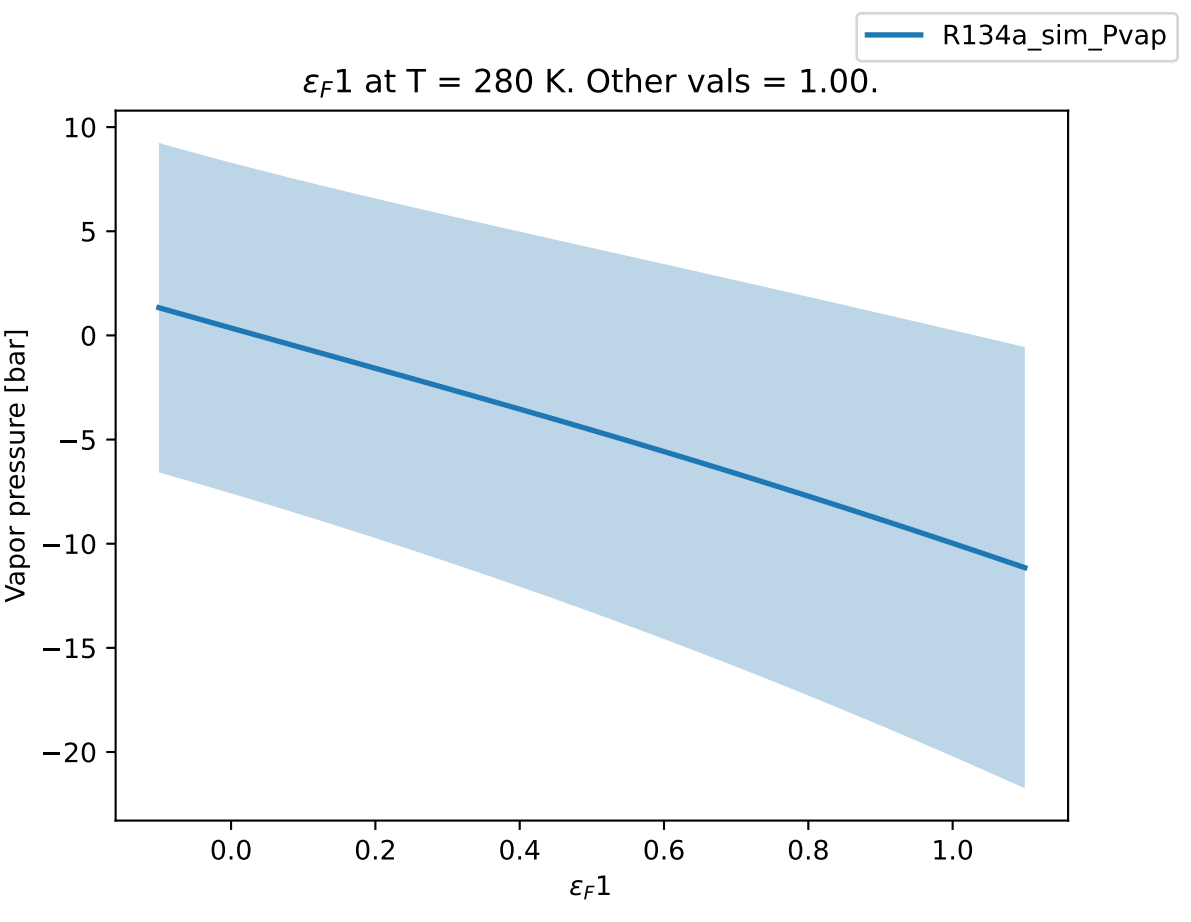

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
0
5
10
15
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

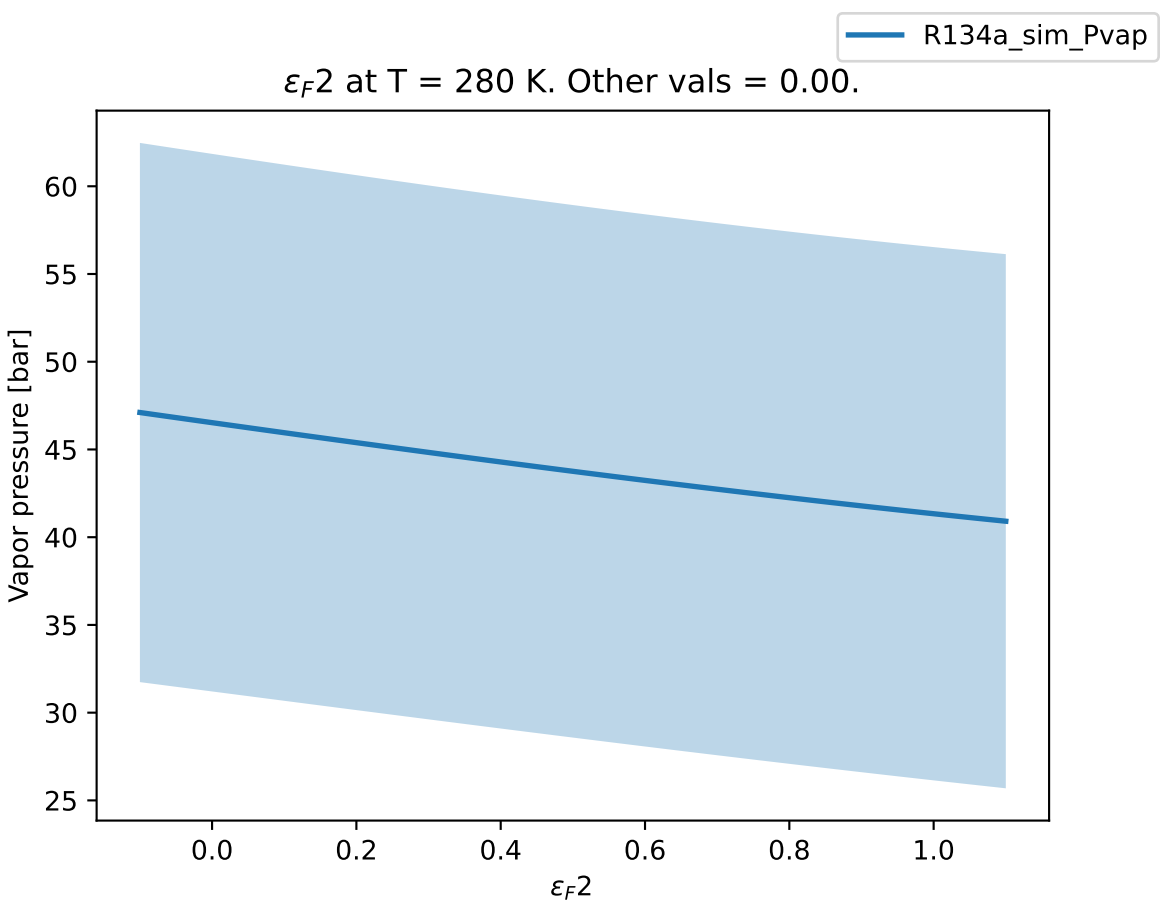

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
15.0
12.5
10.0
7.5
5.0
2.5
0.0
−2.5
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

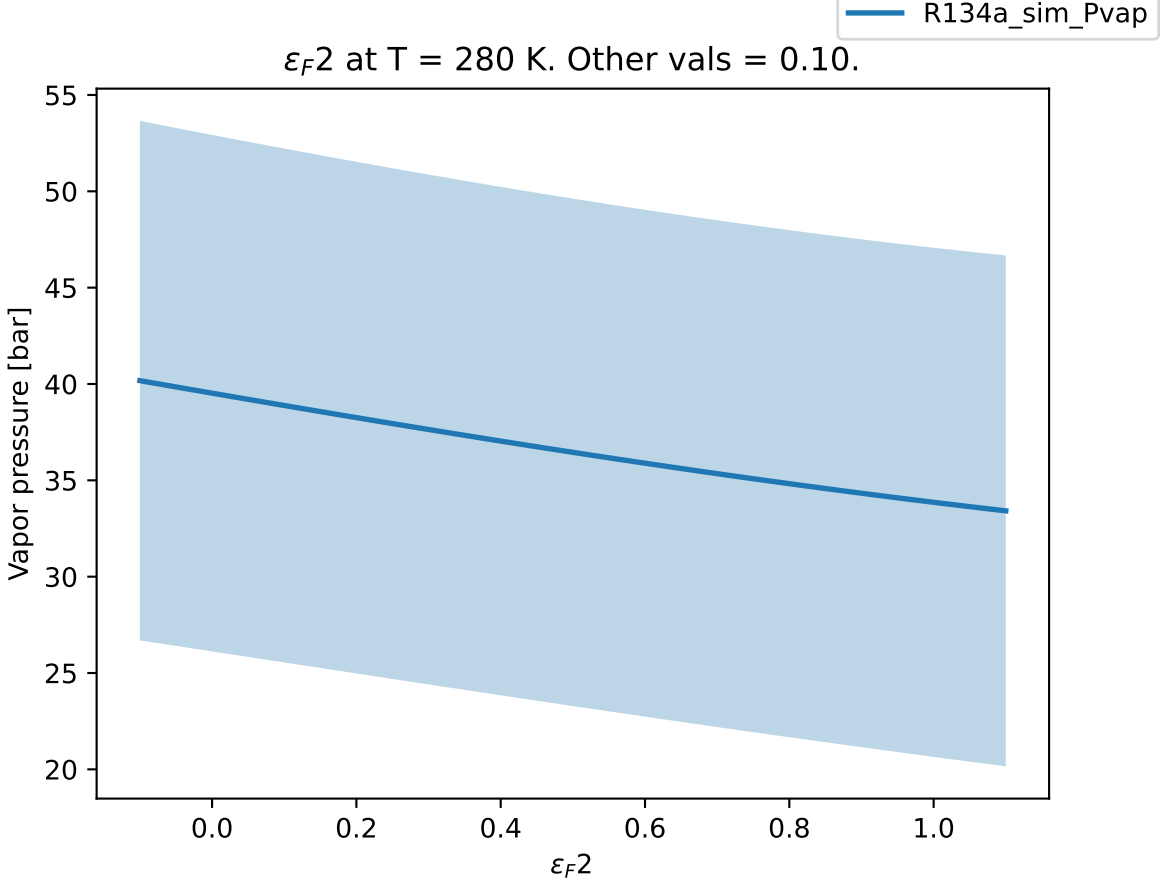

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
10.0
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

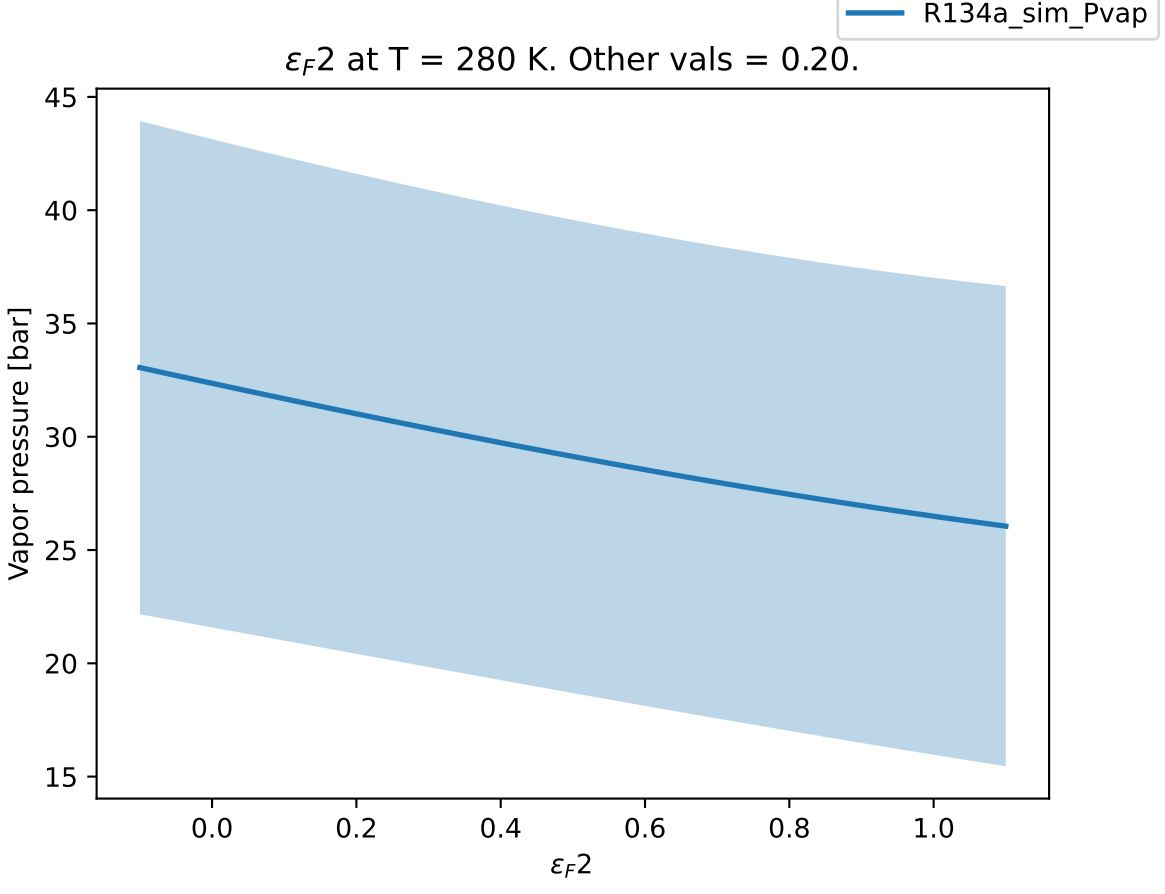

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

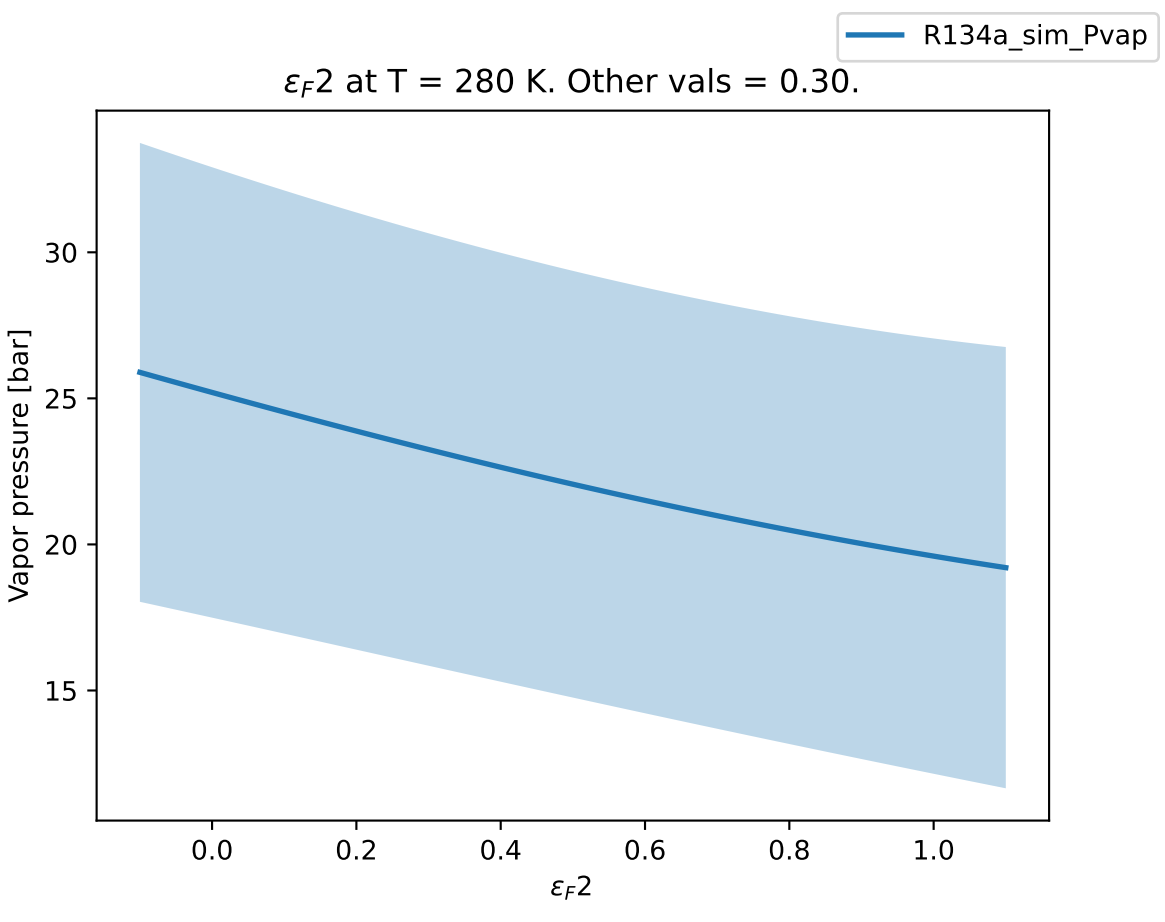

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

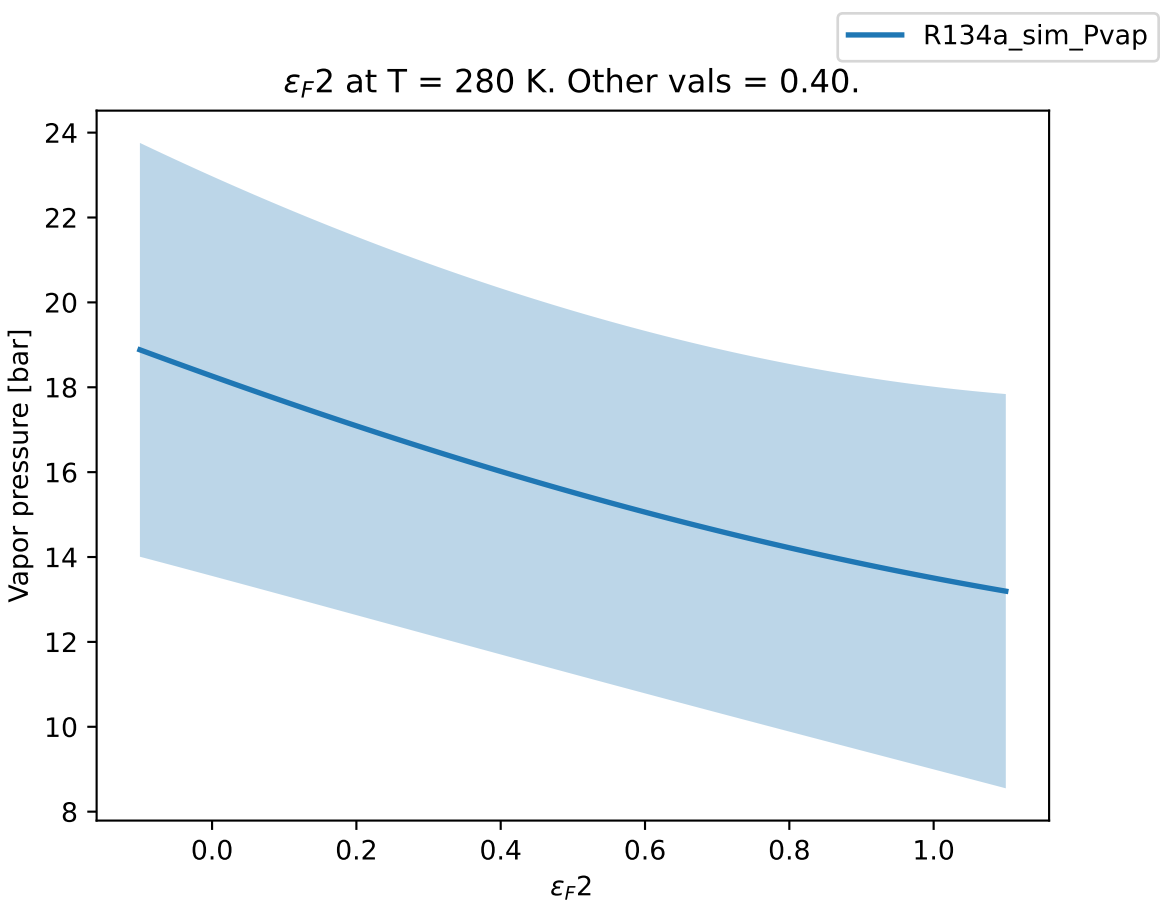

R134a_sim_Pvap
ε_F1 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
10
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

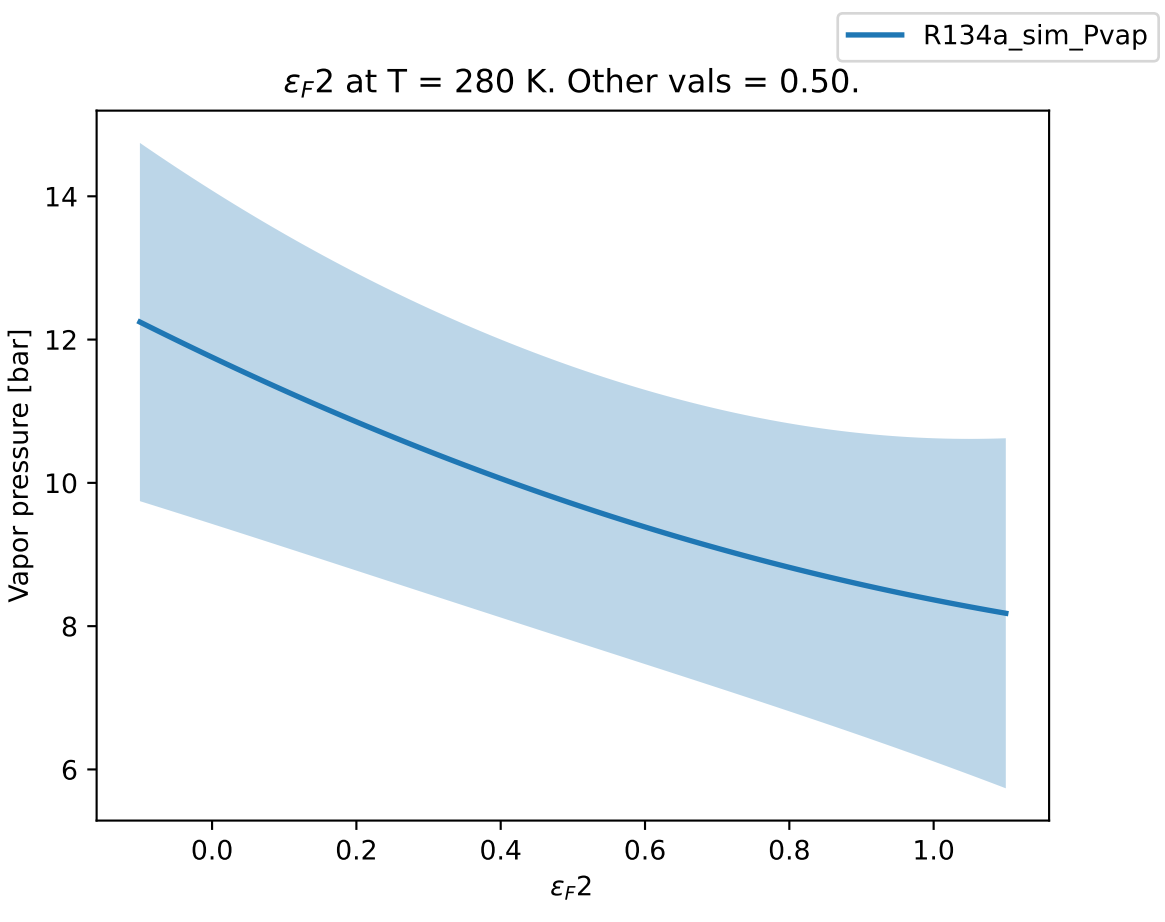

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
55
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

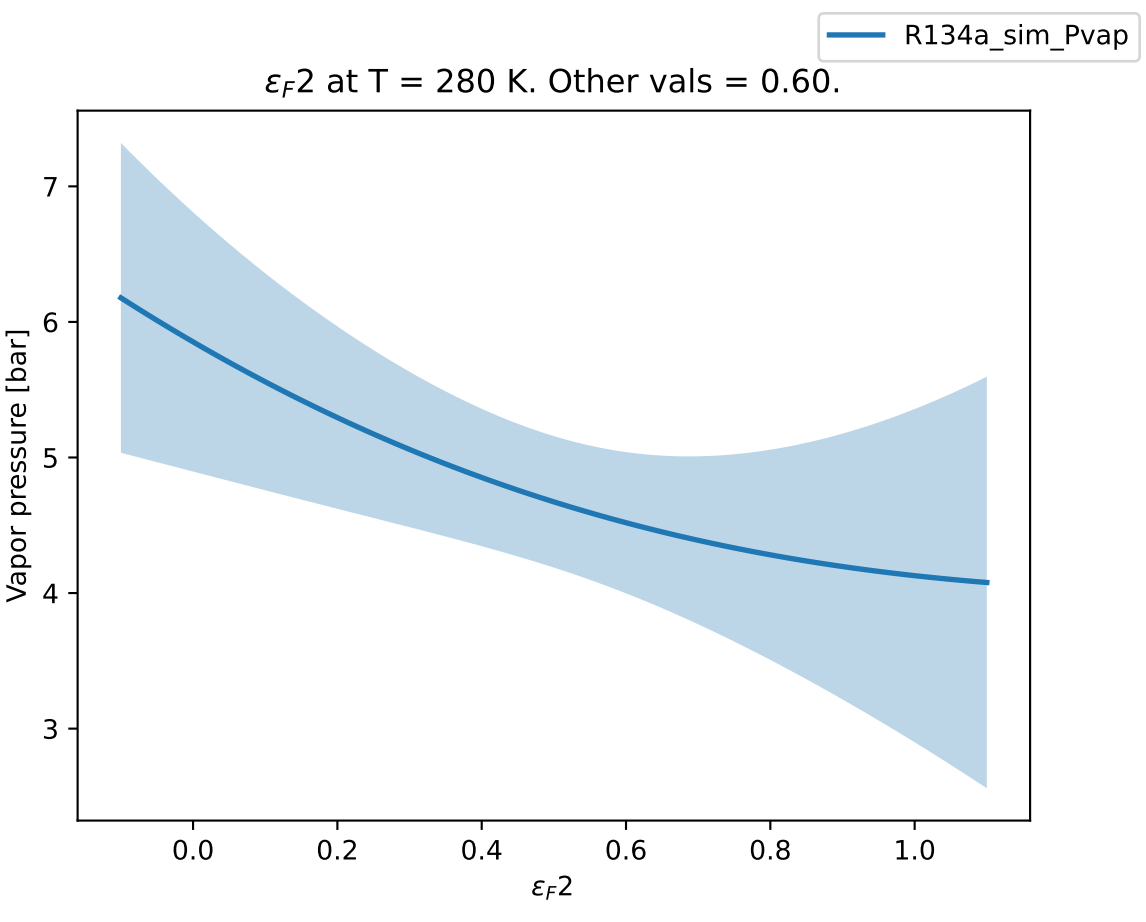

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
55
50
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

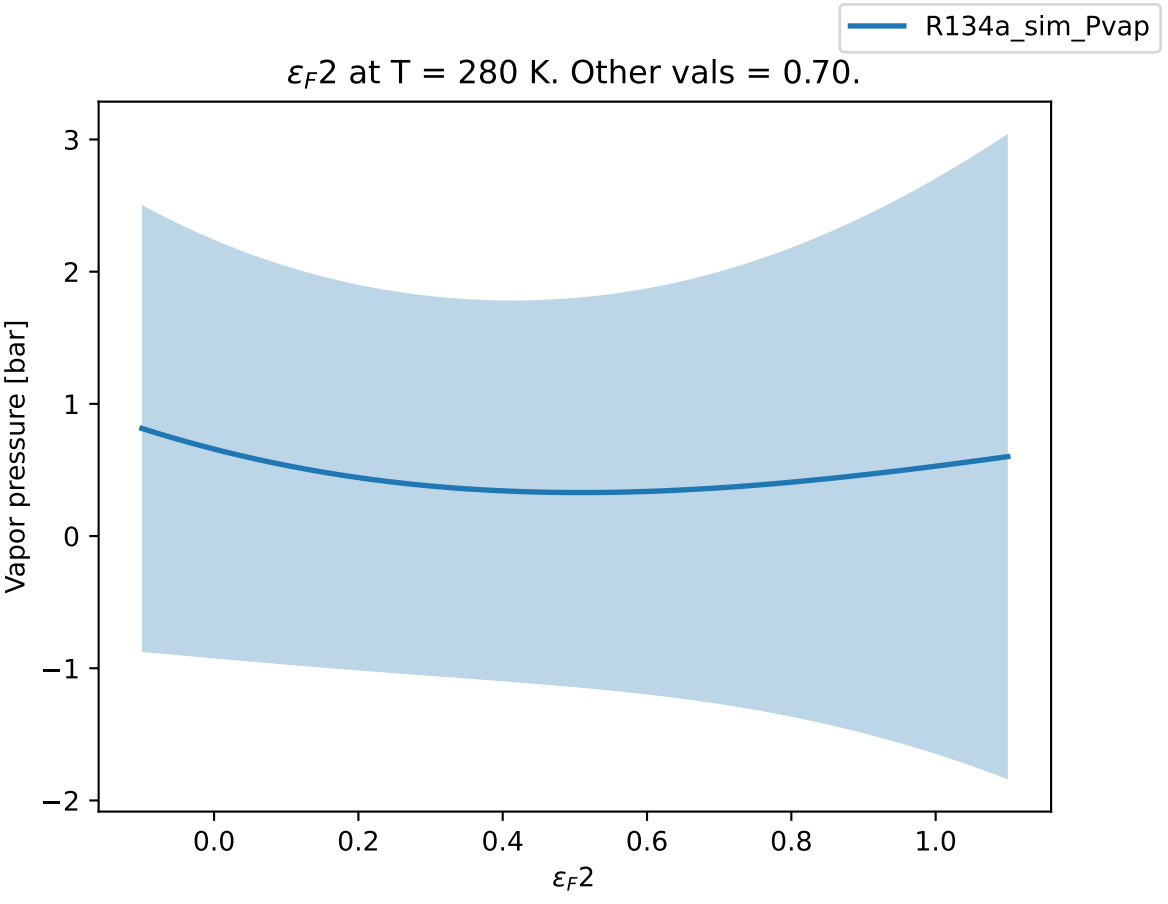

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

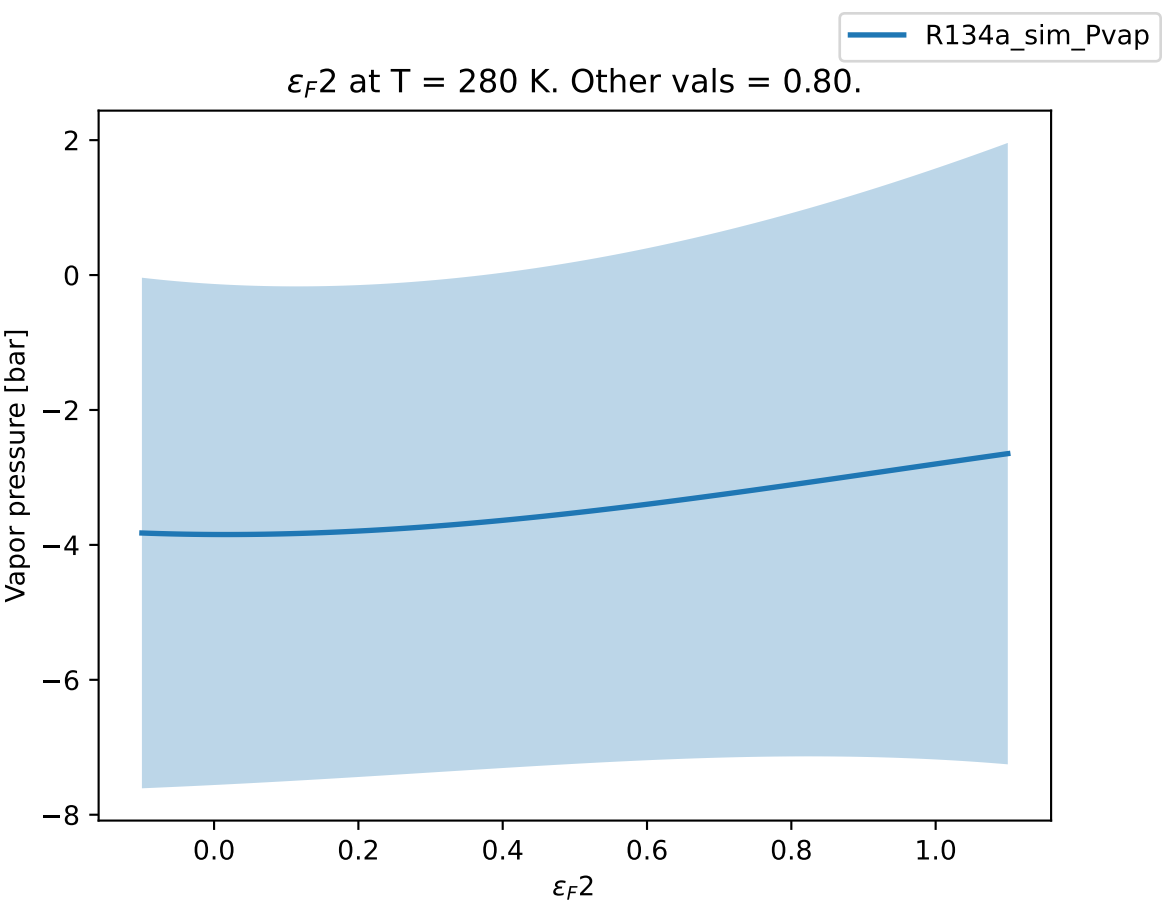

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

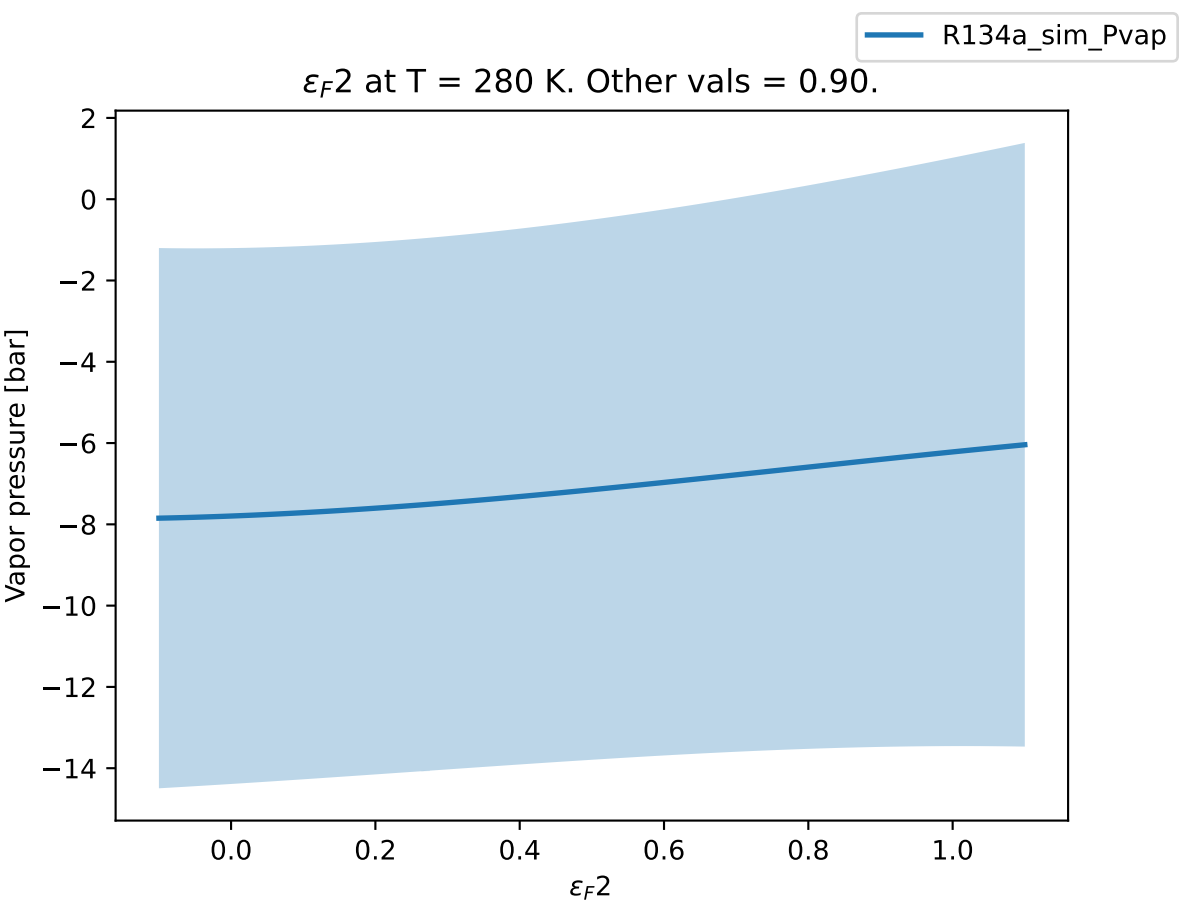

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
24
22
20
18
16
14
12
10
8
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

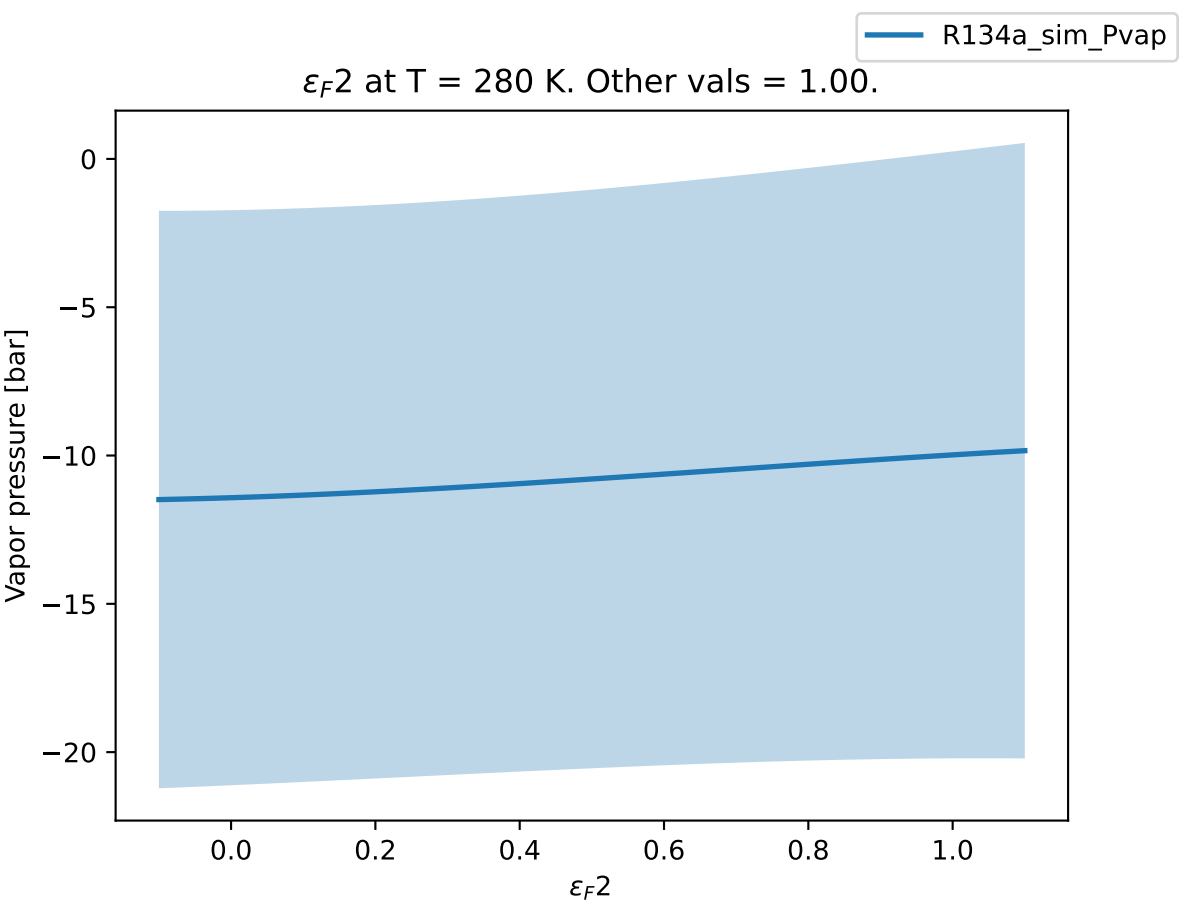

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
14
12
10
8
6
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

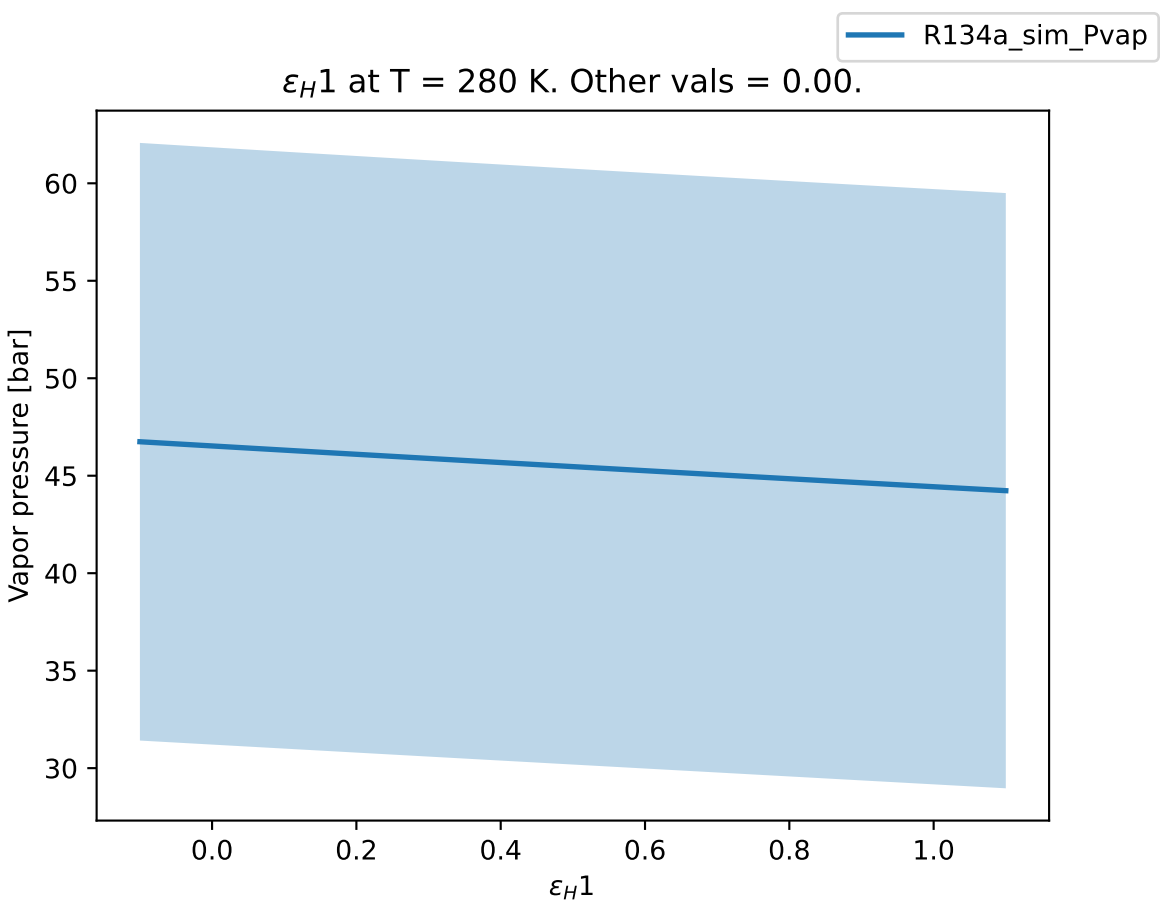

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
7
6
5
4
3
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

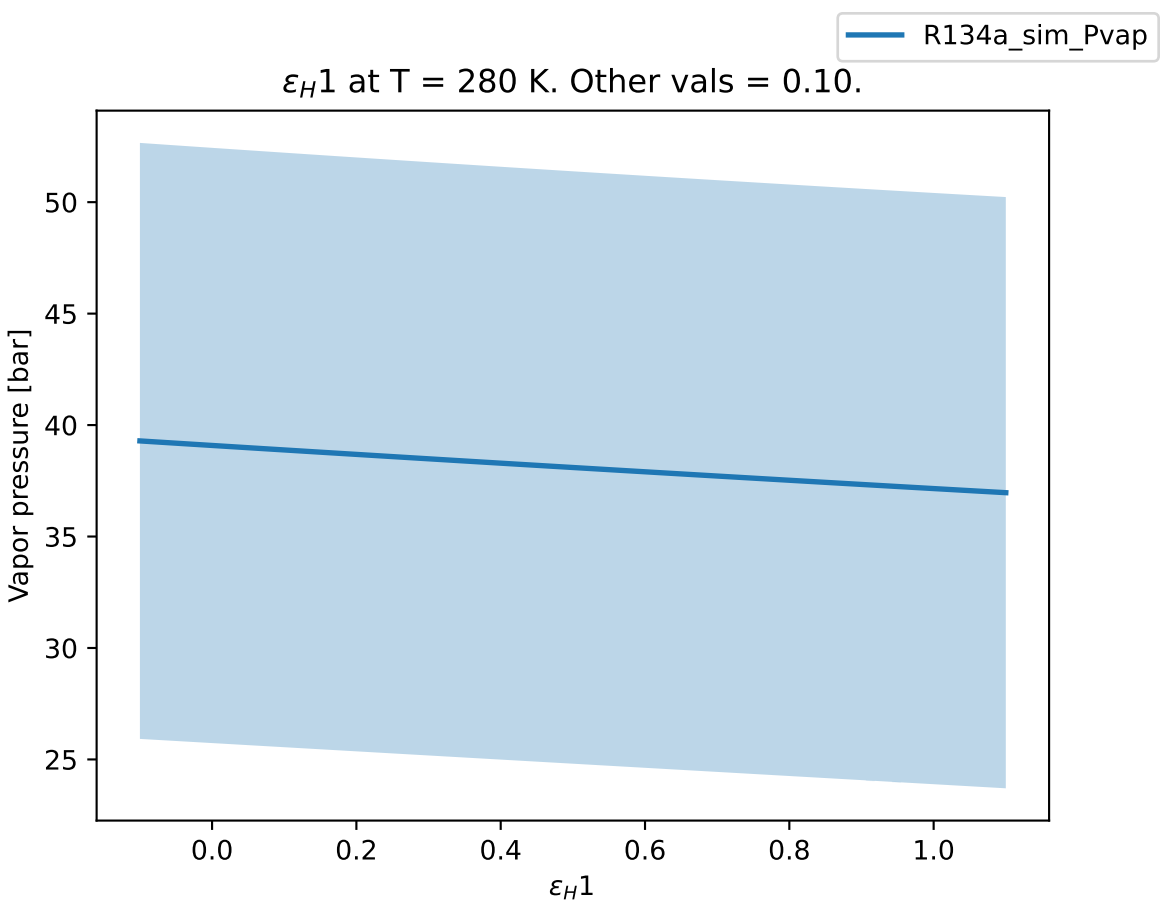

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
3
2
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

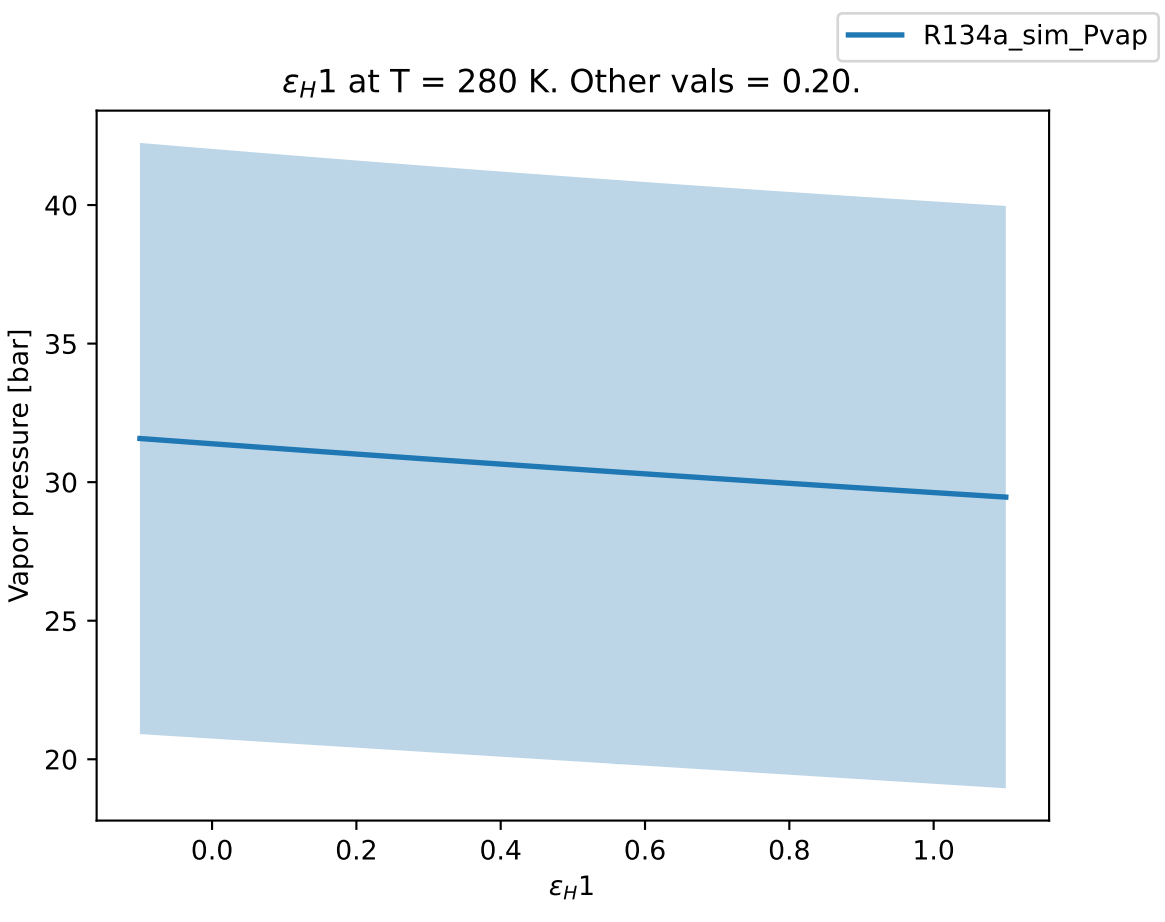

R134a_sim_Pvap
ε_F2 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
2
0
−2
−4
−6
−8
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

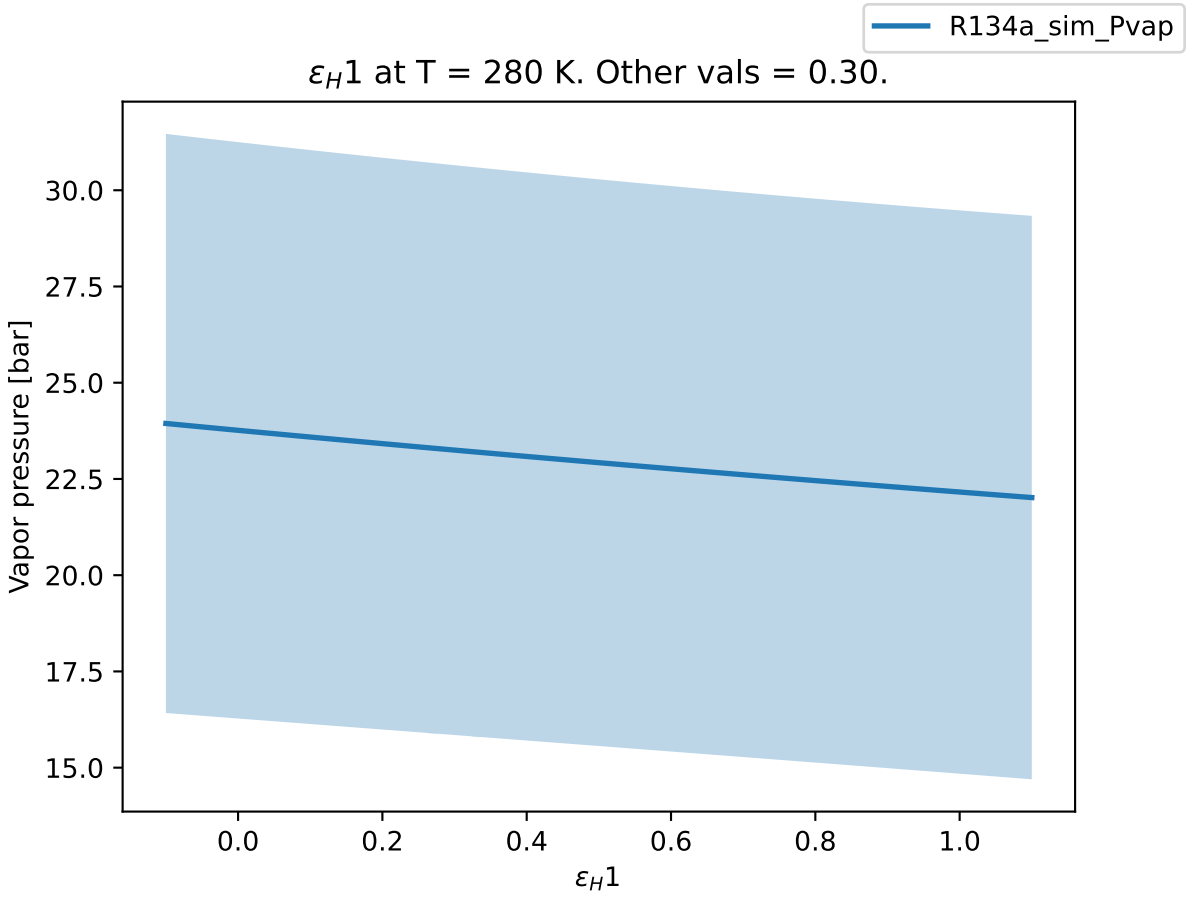

R134a_sim_Pvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
2
0
−2
−4
−6
−8
−10
−12
−14
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

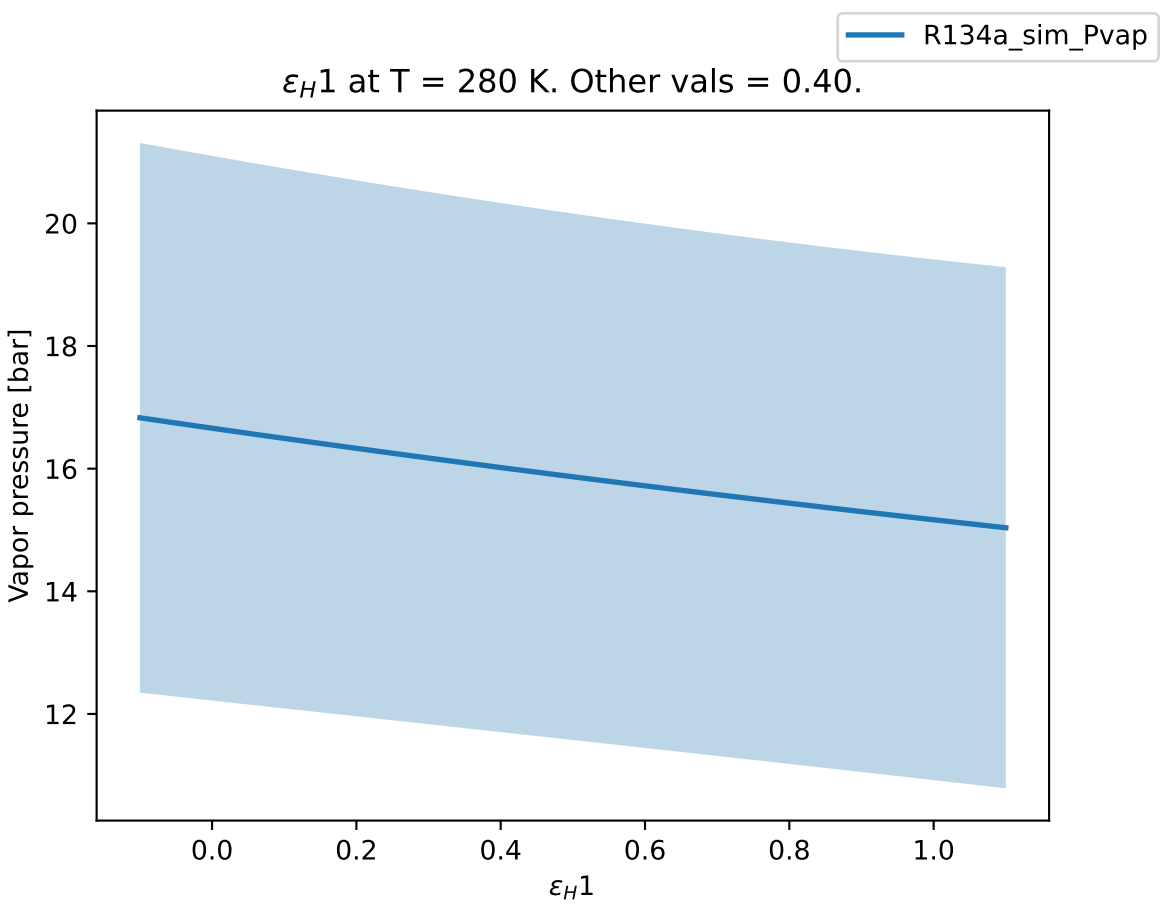

R134a_sim_Pvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

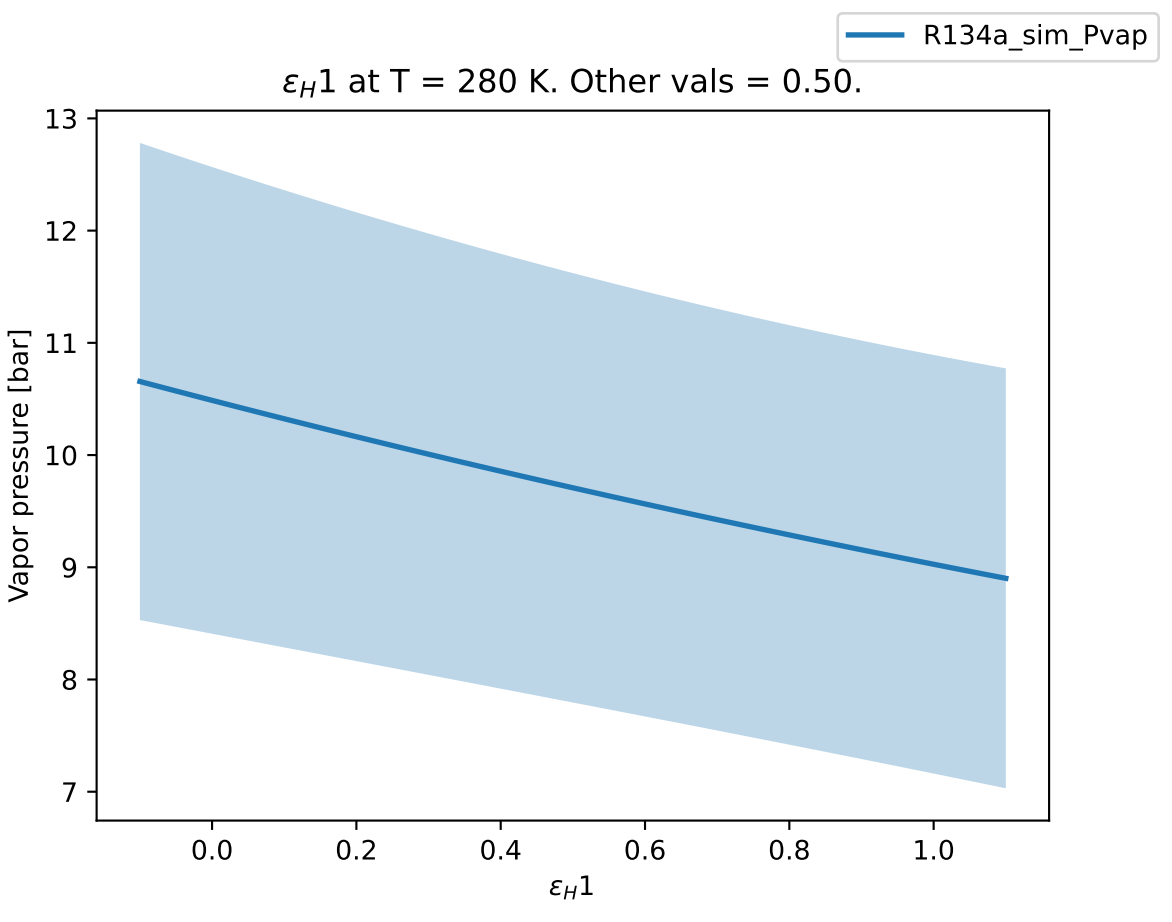

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.00.
Vapor pressure [bar]
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

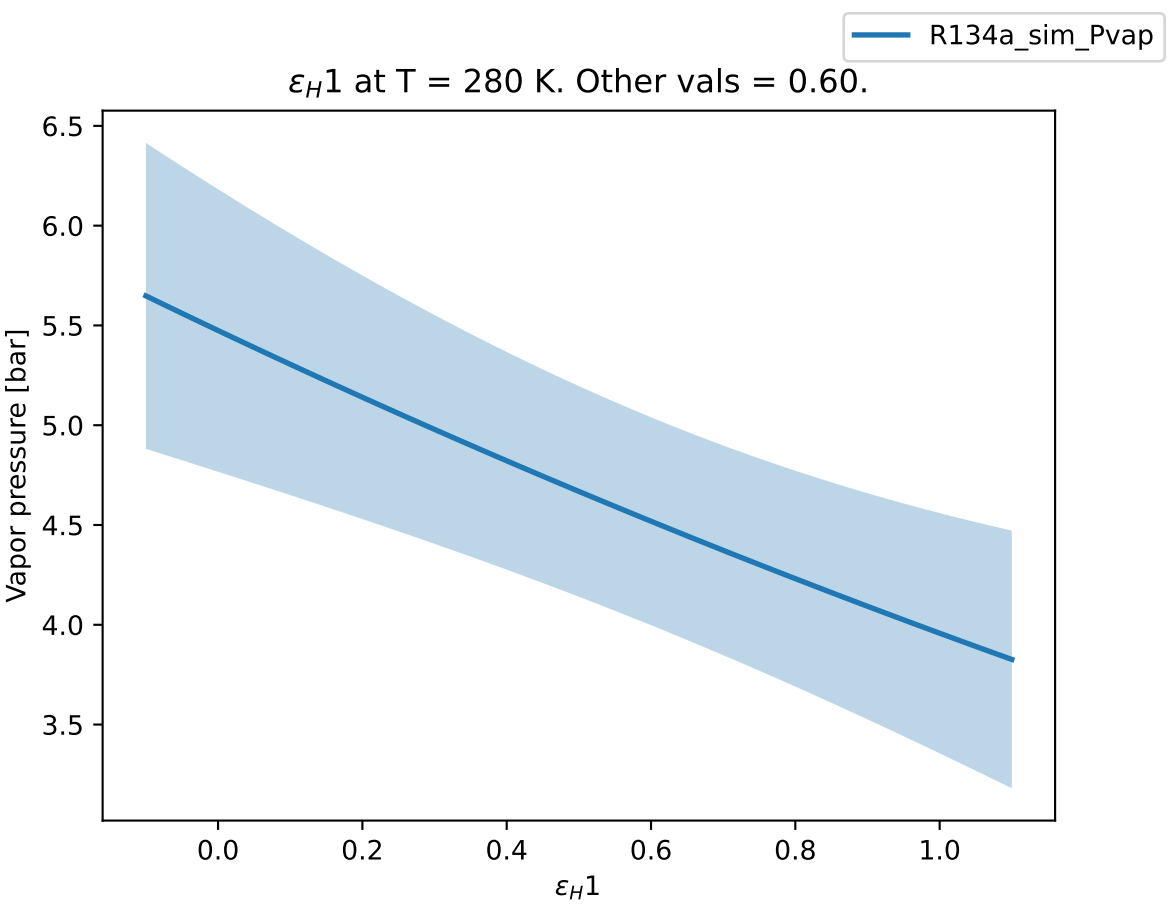

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.10.
Vapor pressure [bar]
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

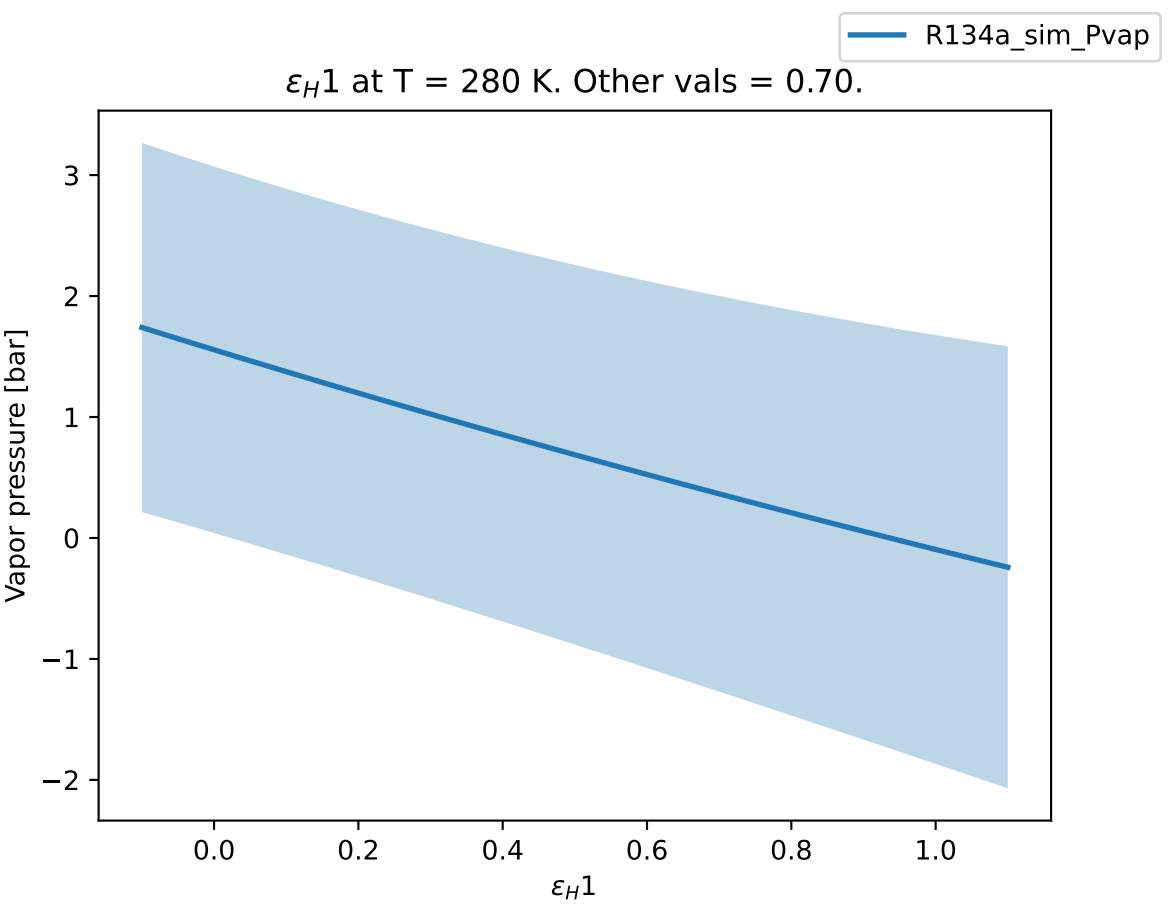

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.20.
Vapor pressure [bar]
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

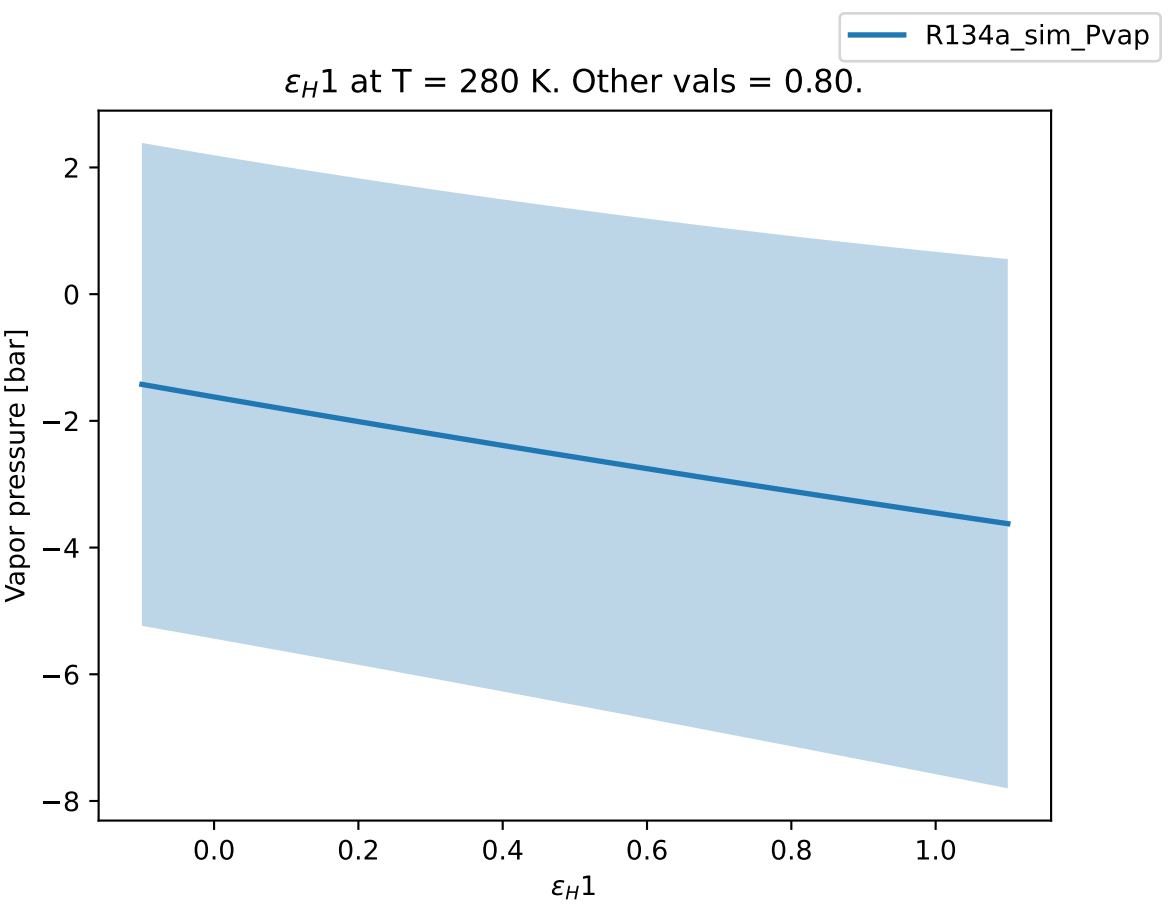

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.30.
Vapor pressure [bar]
30.0
27.5
25.0
22.5
20.0
17.5
15.0
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

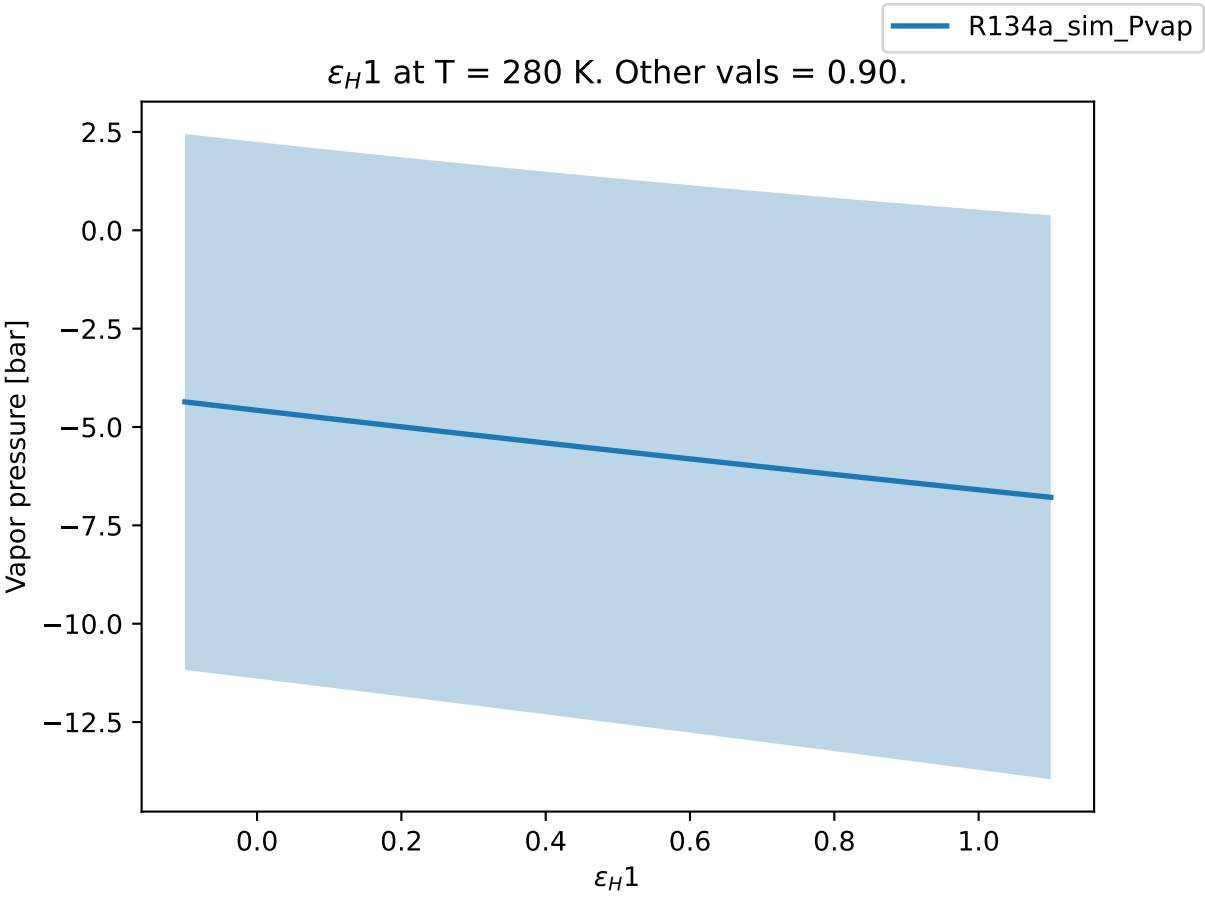

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.40.
Vapor pressure [bar]
20
18
16
14
12
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

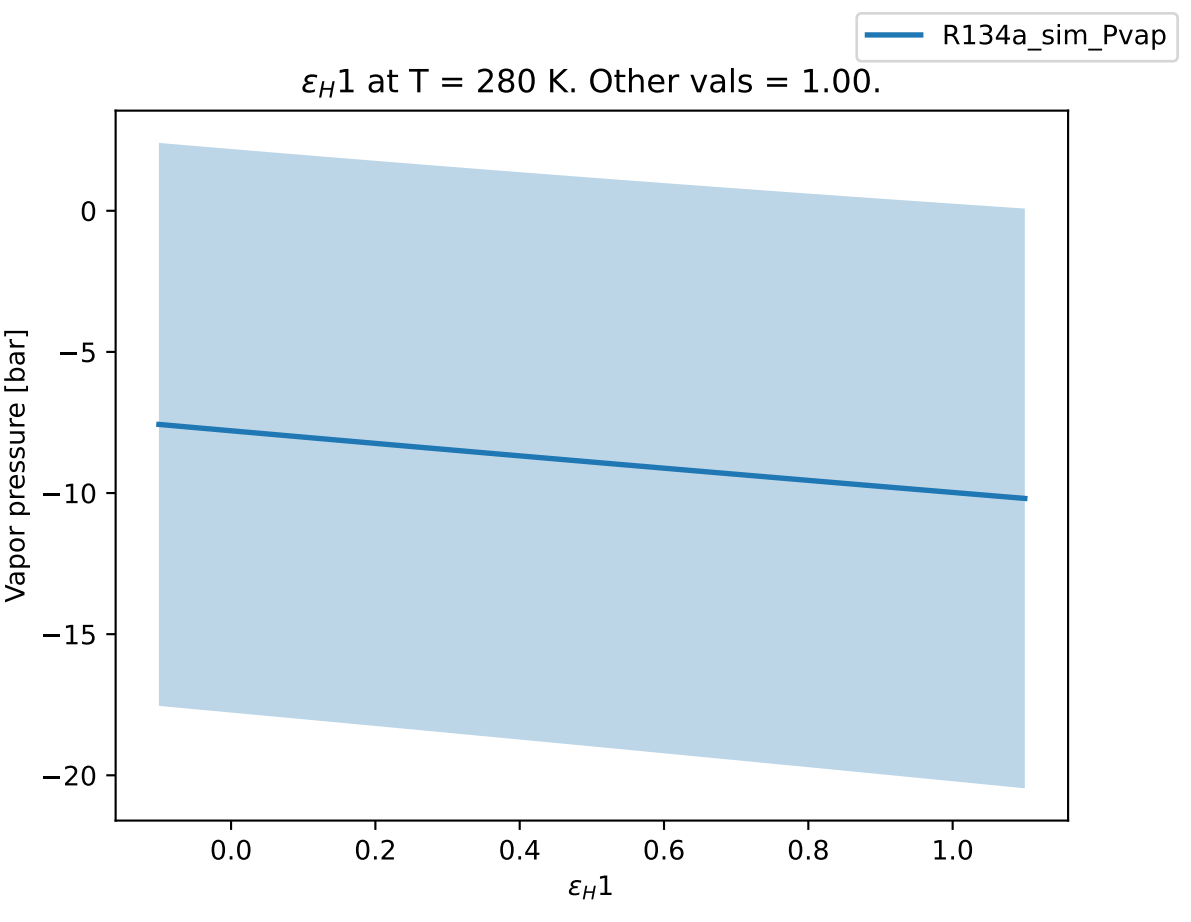

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.50.
Vapor pressure [bar]
13
12
11
10
9
8
7
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

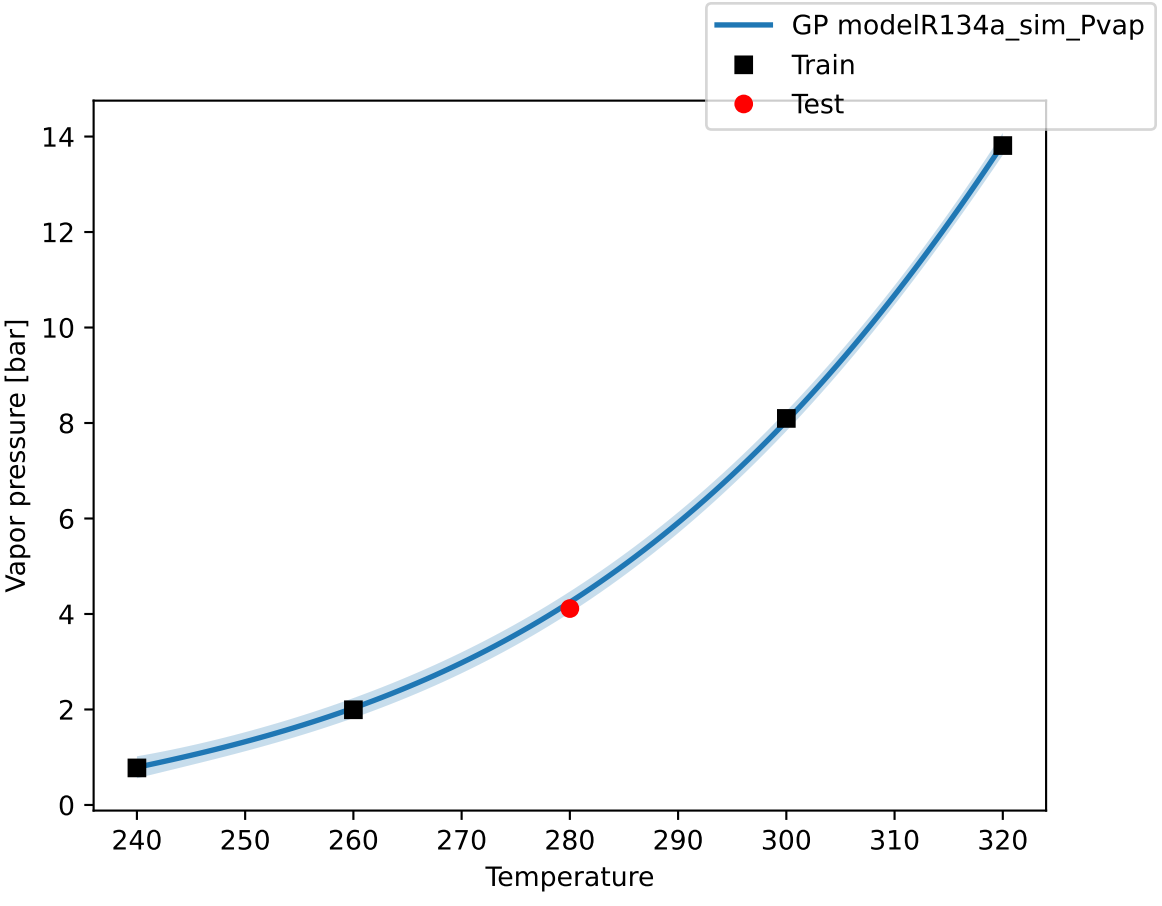

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.60.
Vapor pressure [bar]
6.5
6.0
5.5
5.0
4.5
4.0
3.5
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

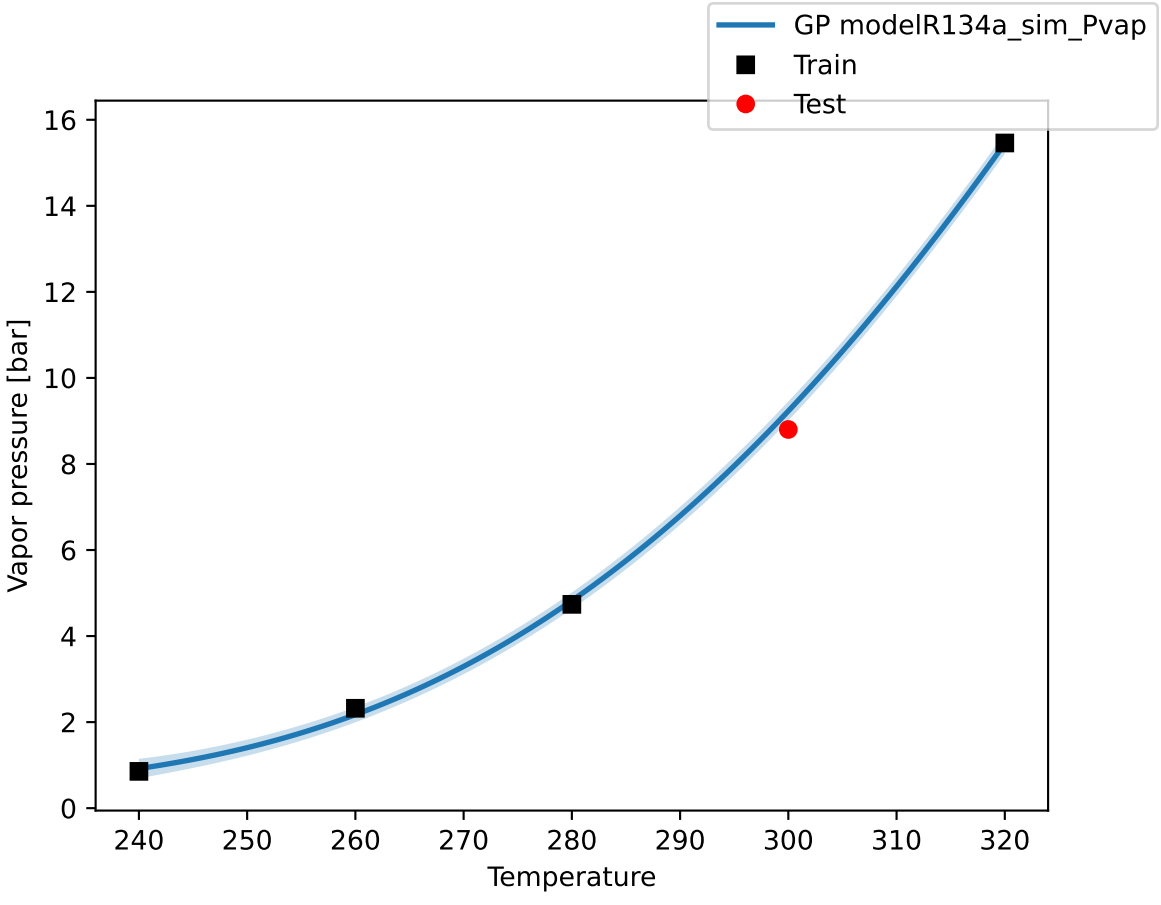

R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.70.
Vapor pressure [bar]
3
2
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1


R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.80.
Vapor pressure [bar]
2
0
−2
−4
−6
−8
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1


R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 0.90.
Vapor pressure [bar]
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1


R134a_sim_Pvap
ε_H1 at T = 280 K. Other vals = 1.00.
Vapor pressure [bar]
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
14
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
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4
6
8
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16
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250
260
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290
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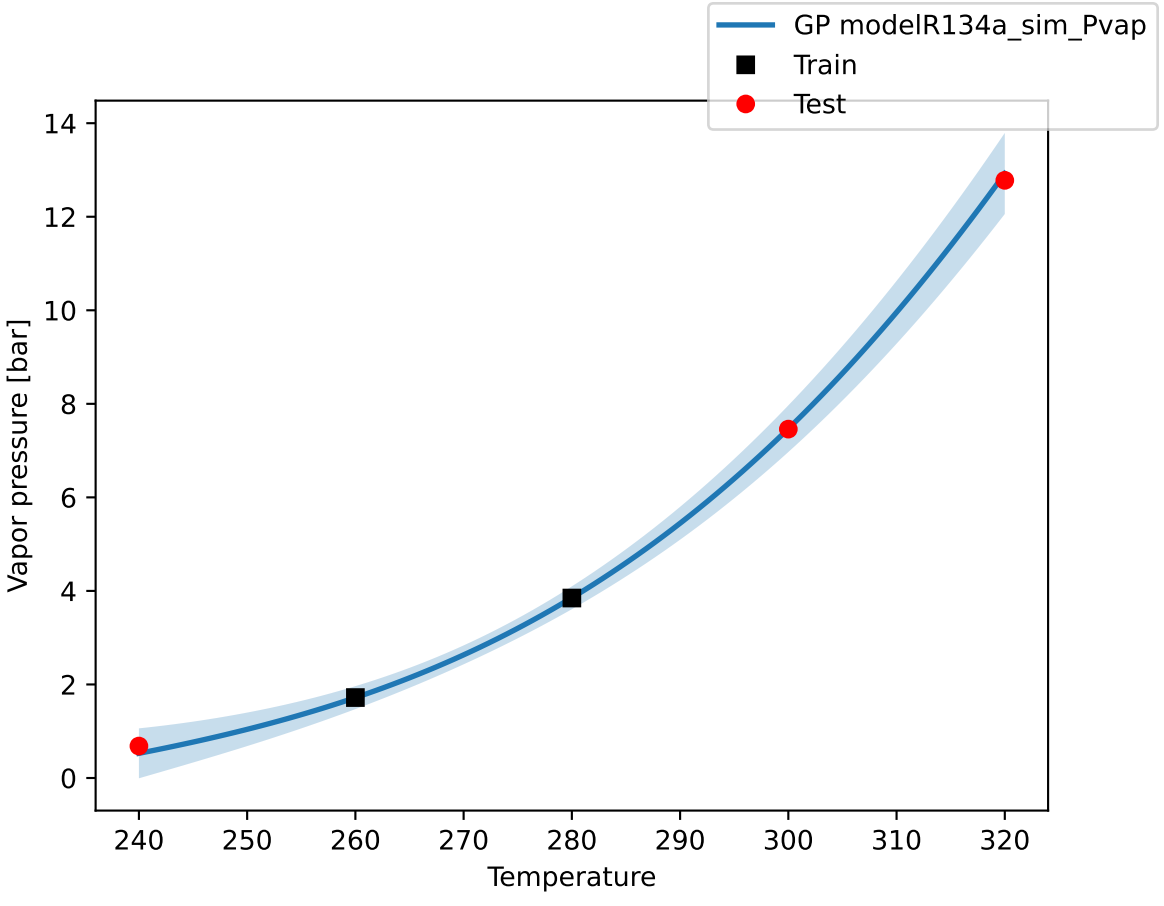
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
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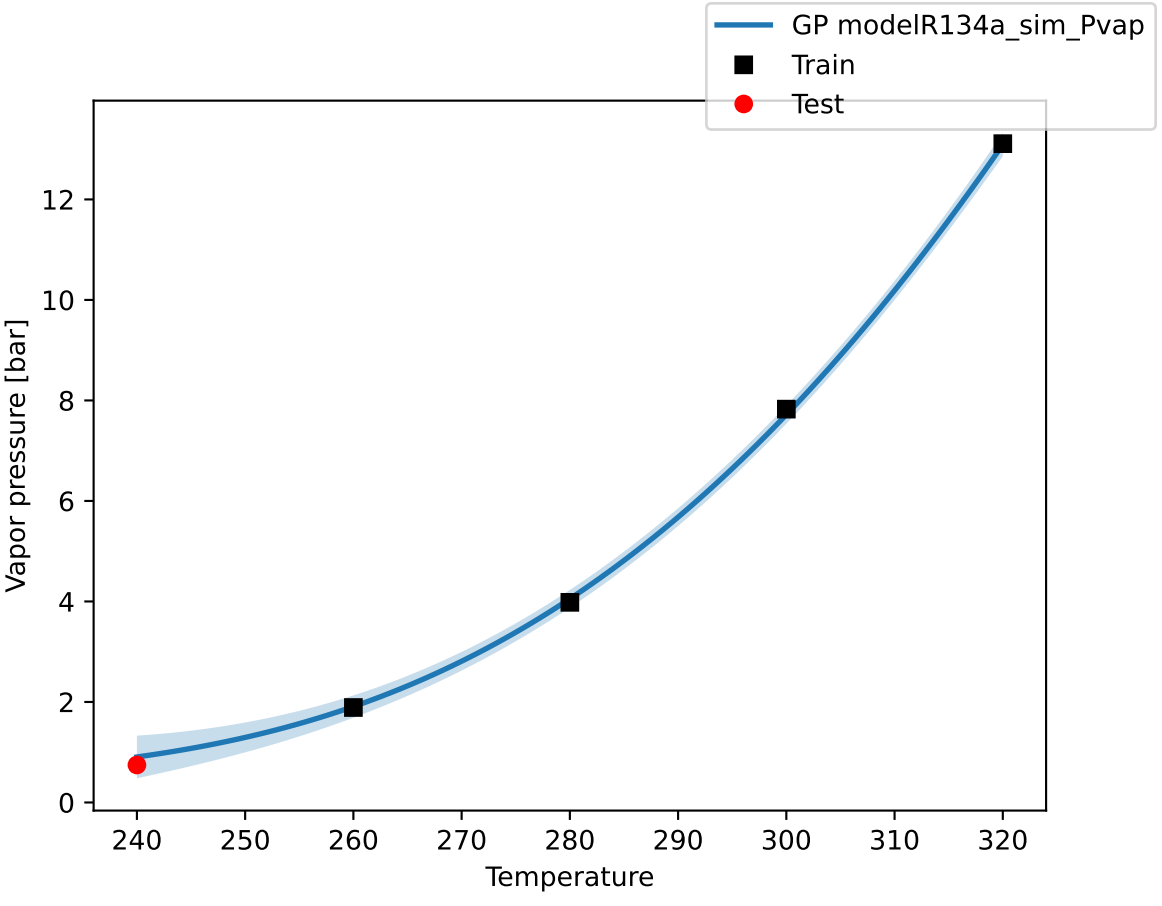
GP modelR134a_sim_Pvap
Train
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Vapor pressure [bar]
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270
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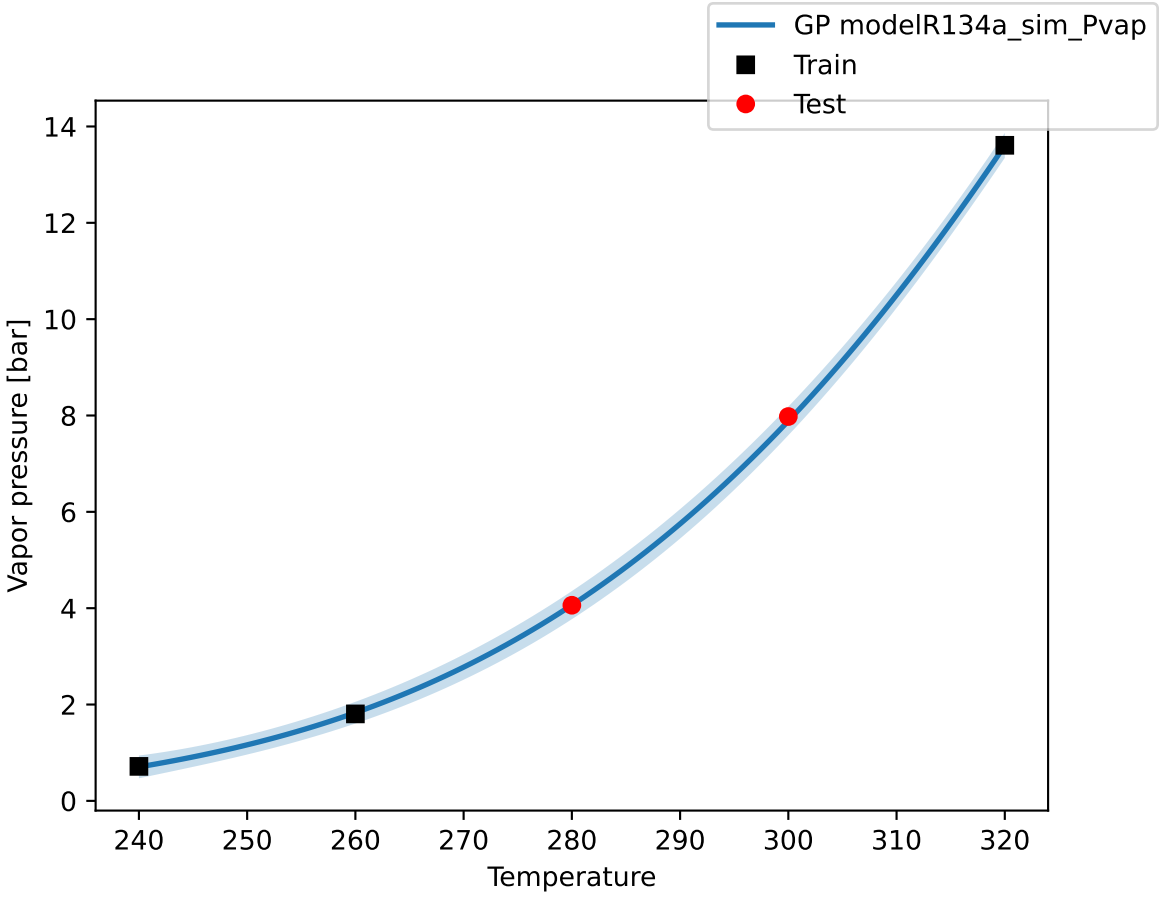
290
300
310
320
Temperature


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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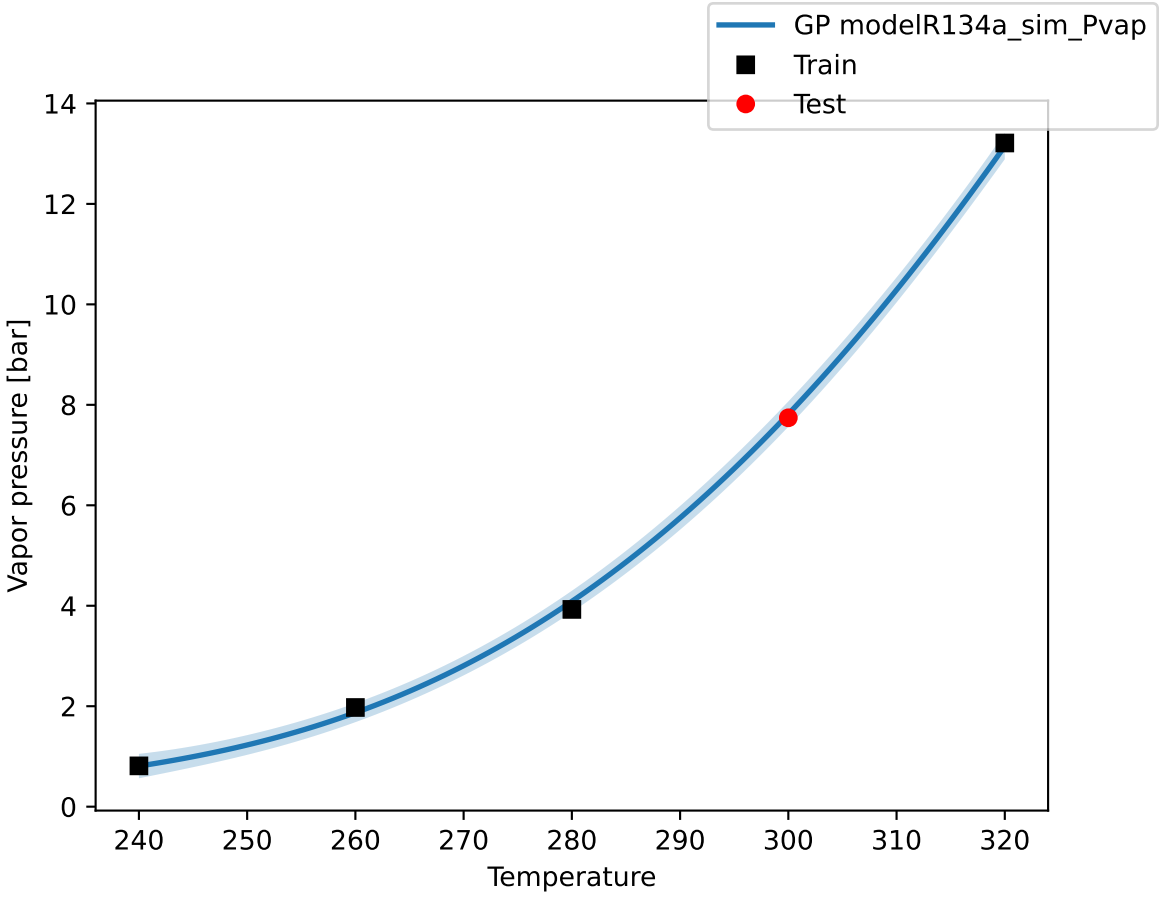
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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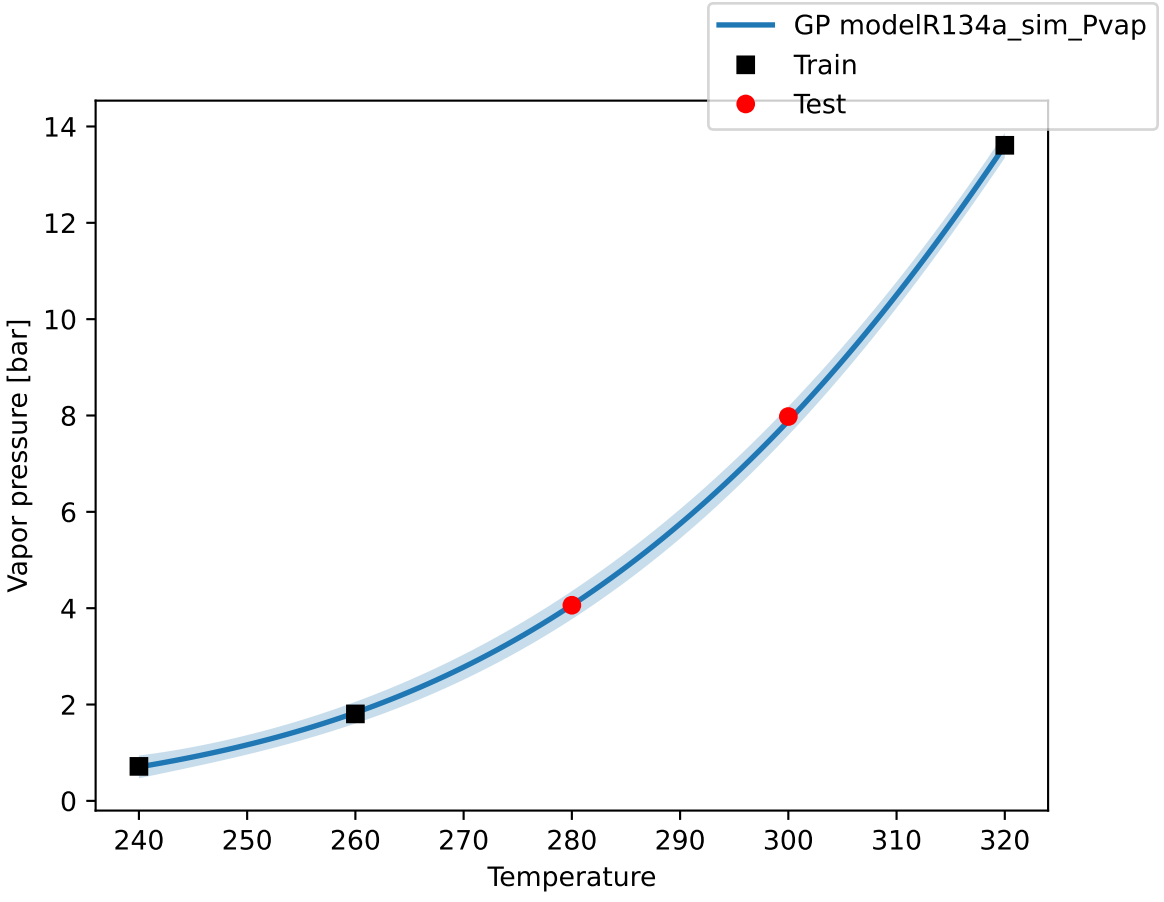
GP modelR134a_sim_Pvap
Train
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Vapor pressure [bar]
Temperature
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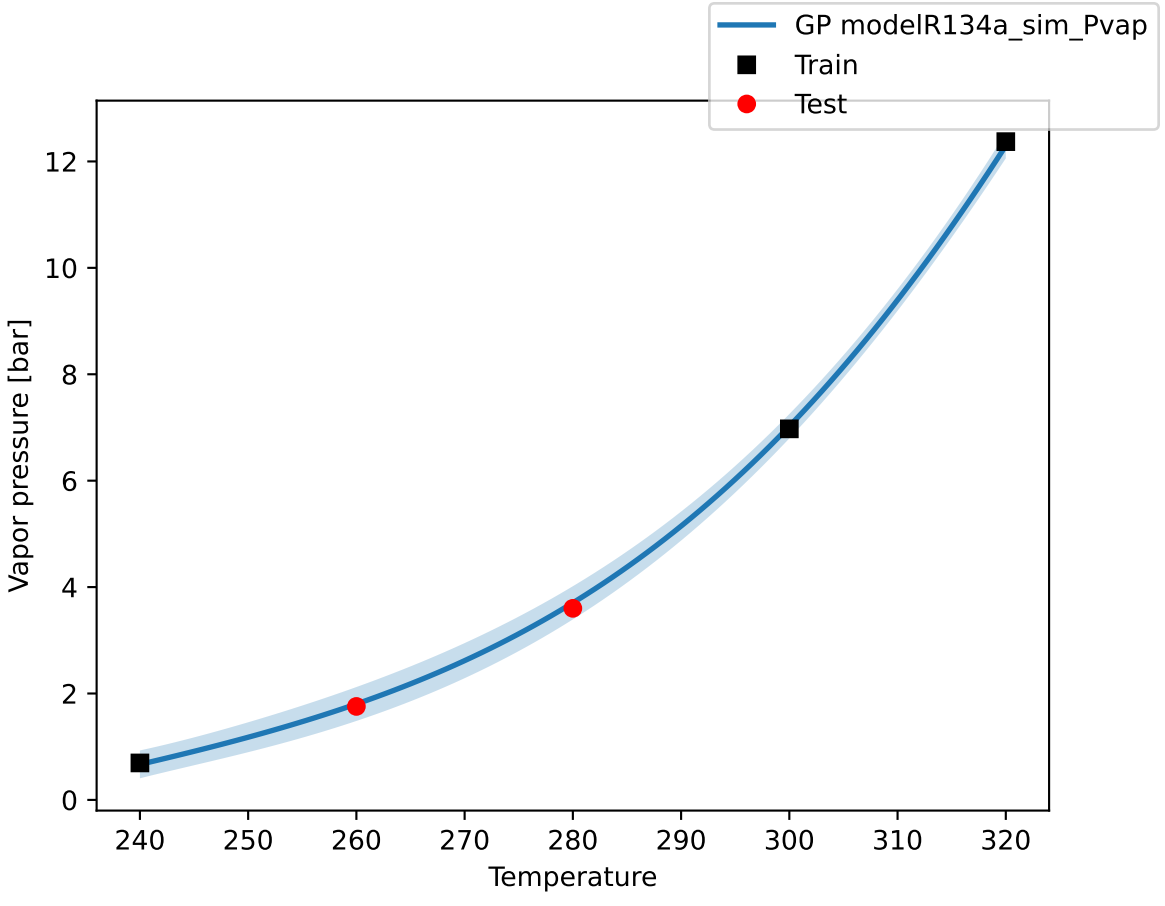
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
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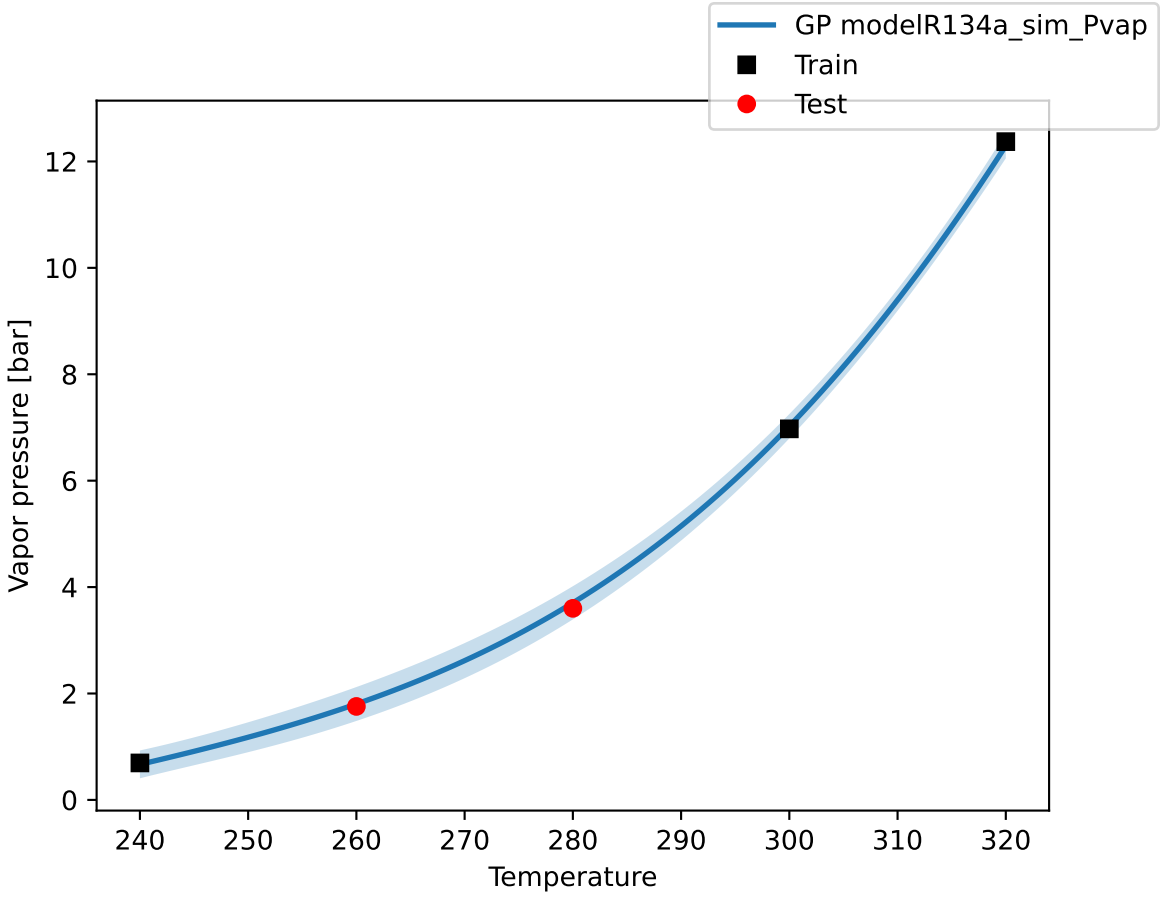
Temperature


GP modelR134a_sim_Pvap
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Vapor pressure [bar]
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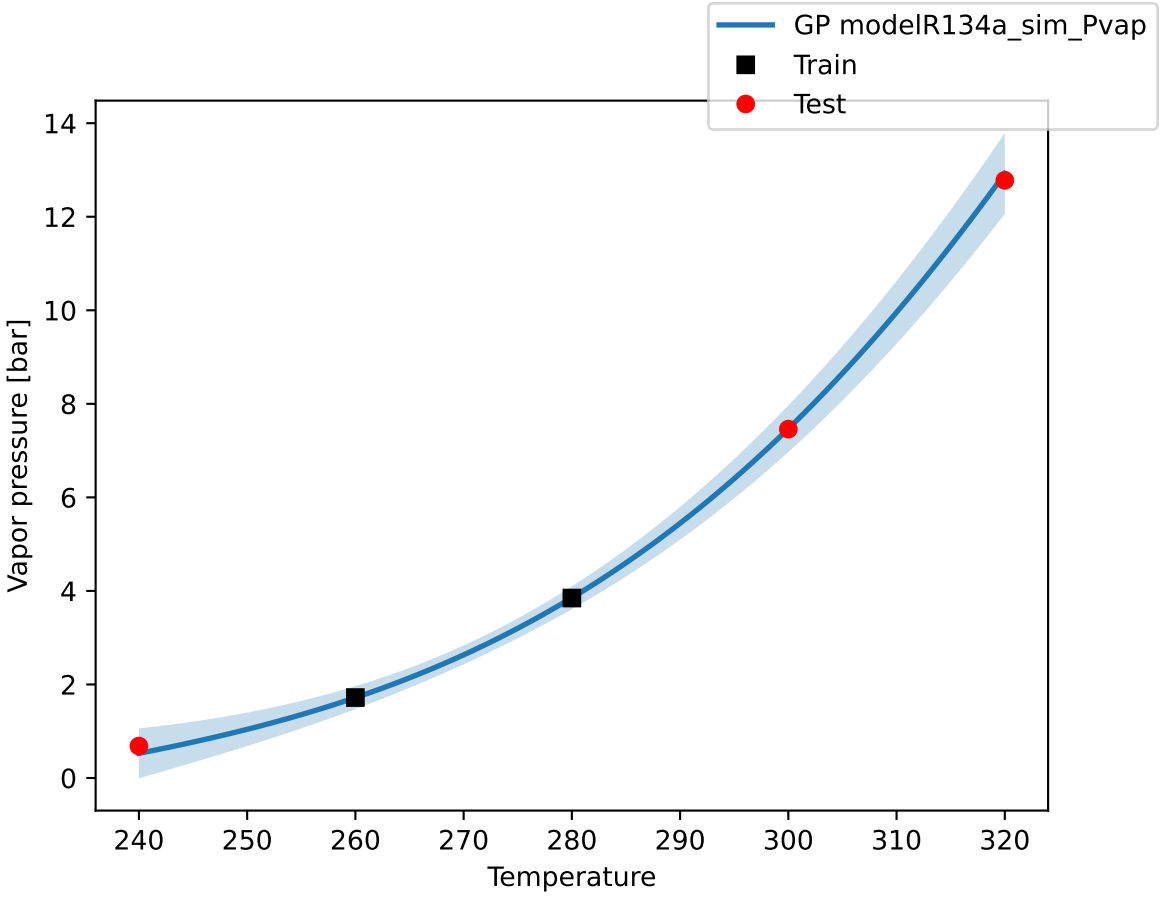
Temperature


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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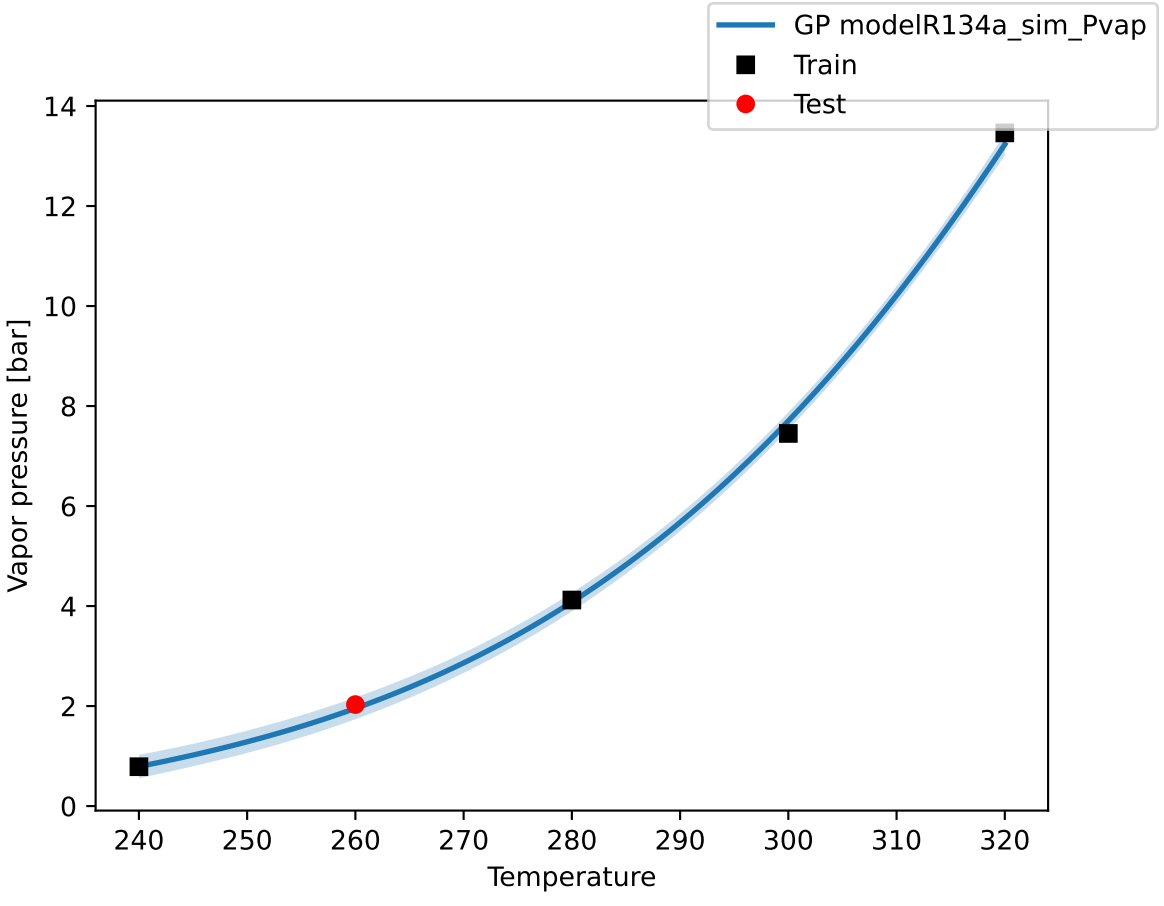
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Vapor pressure [bar]
Temperature
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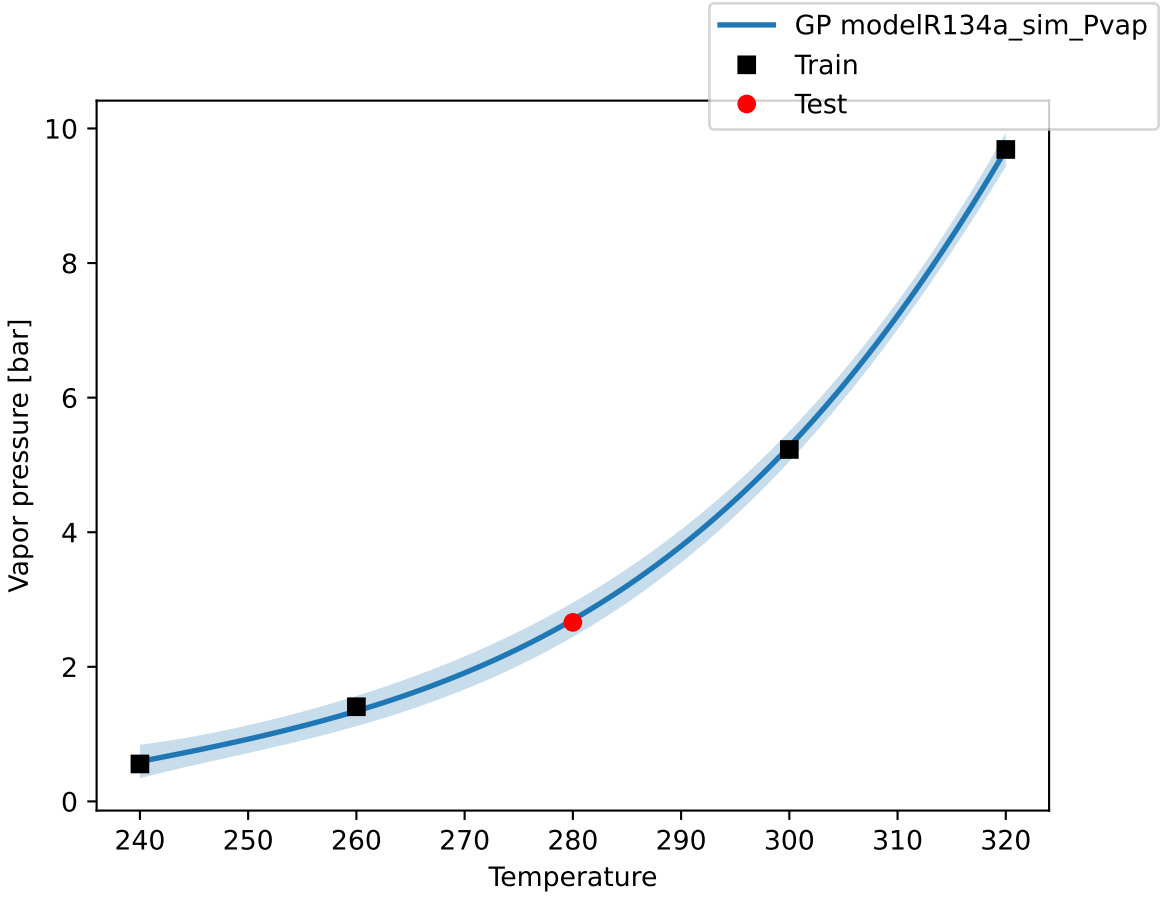
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Vapor pressure [bar]
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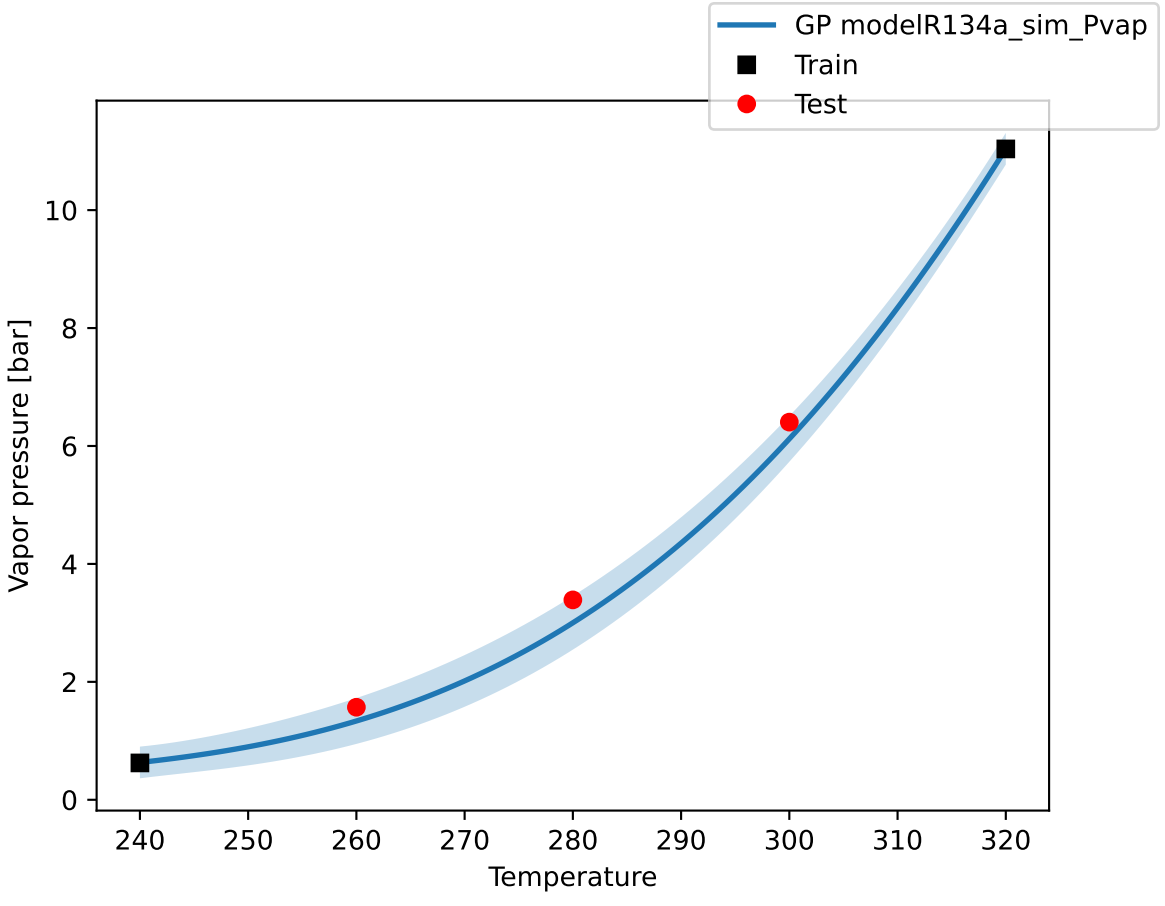
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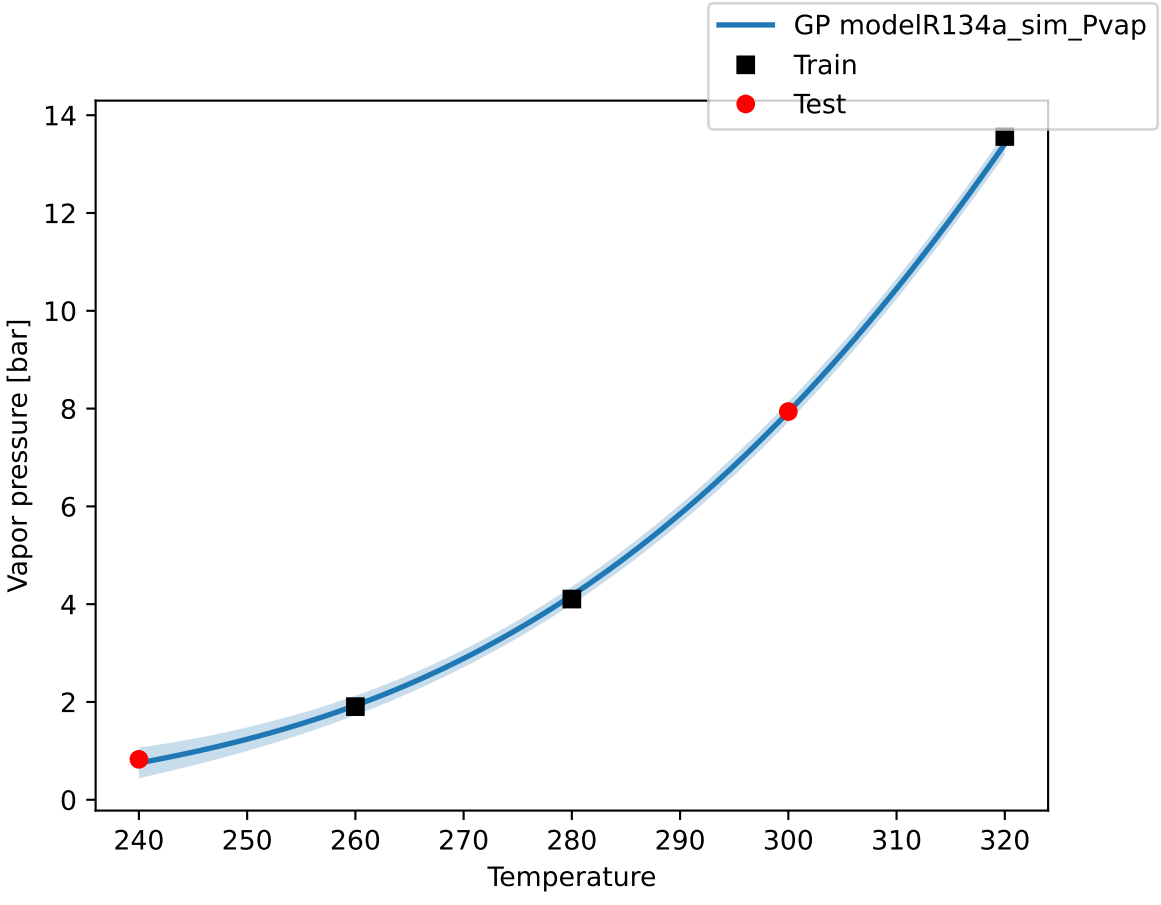
Temperature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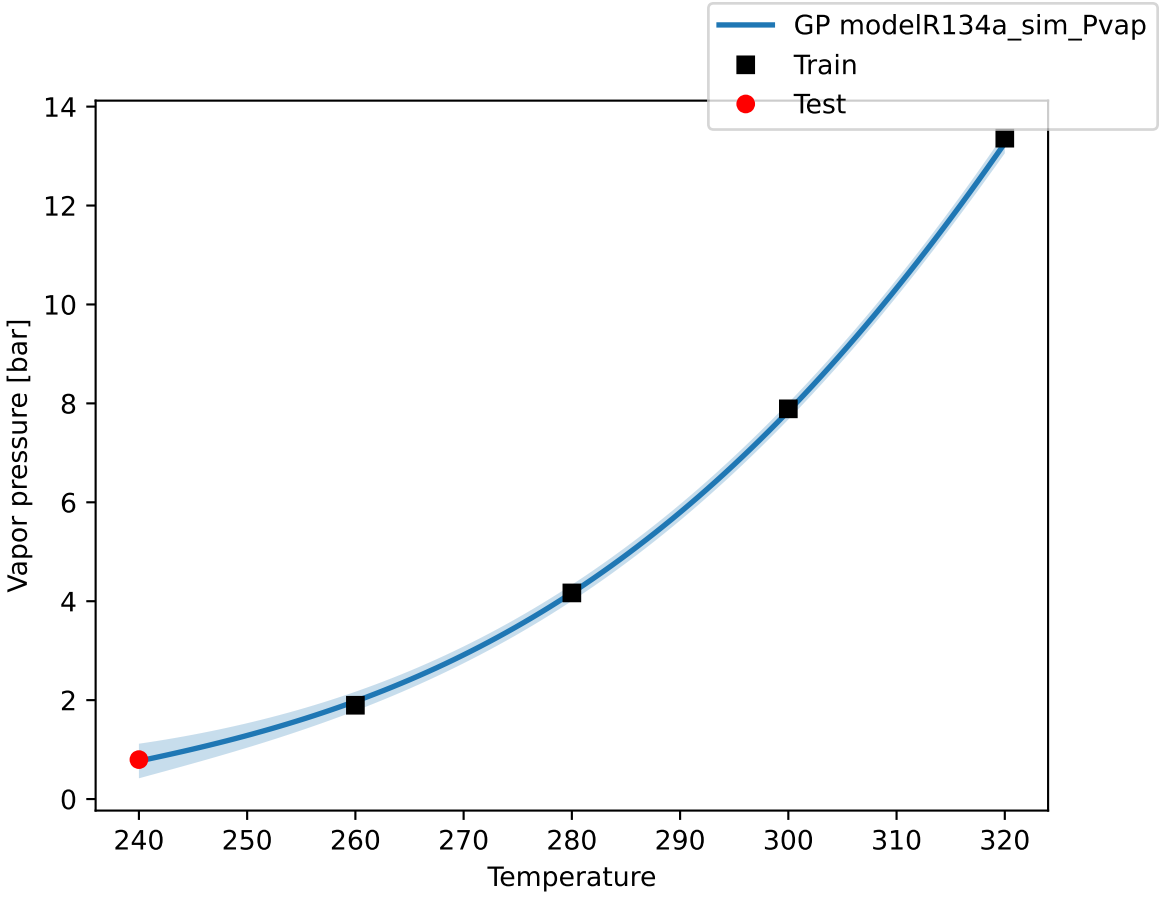
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Temperature
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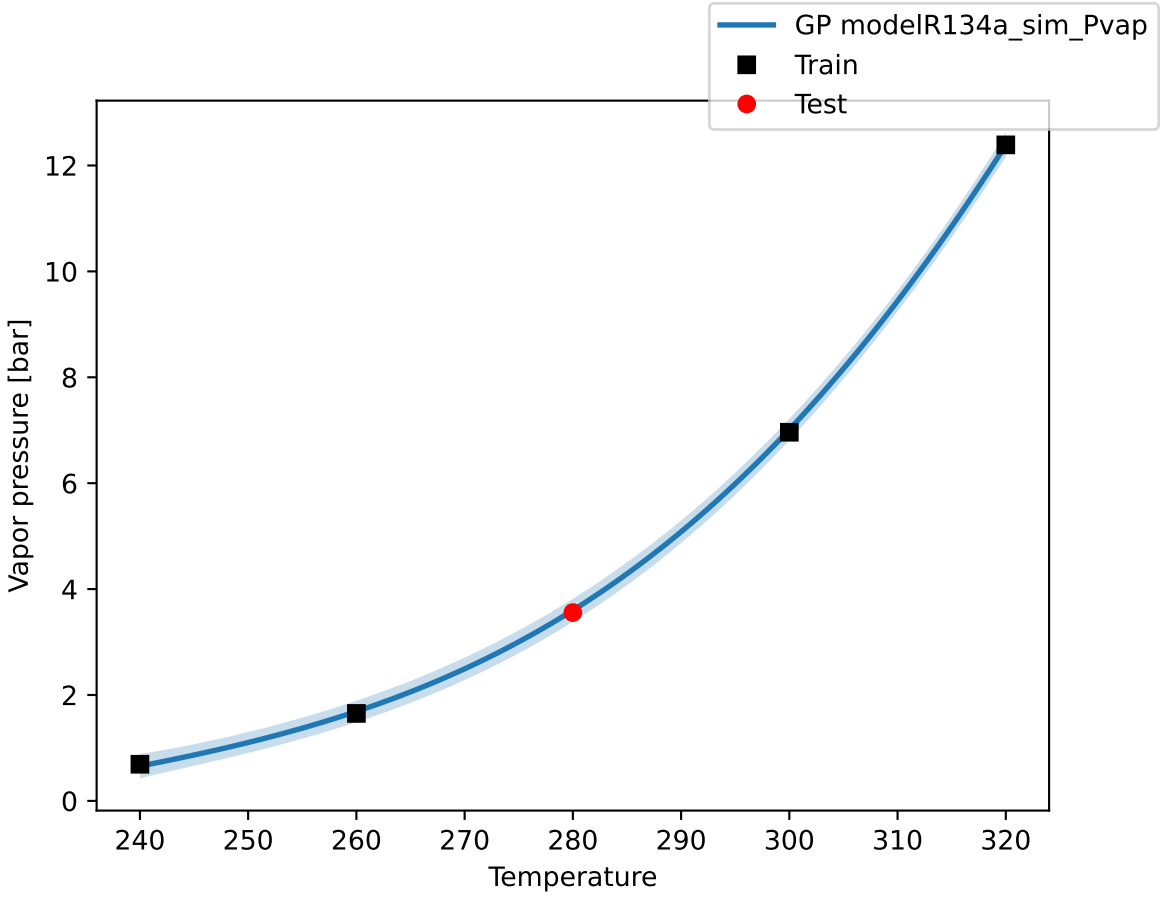
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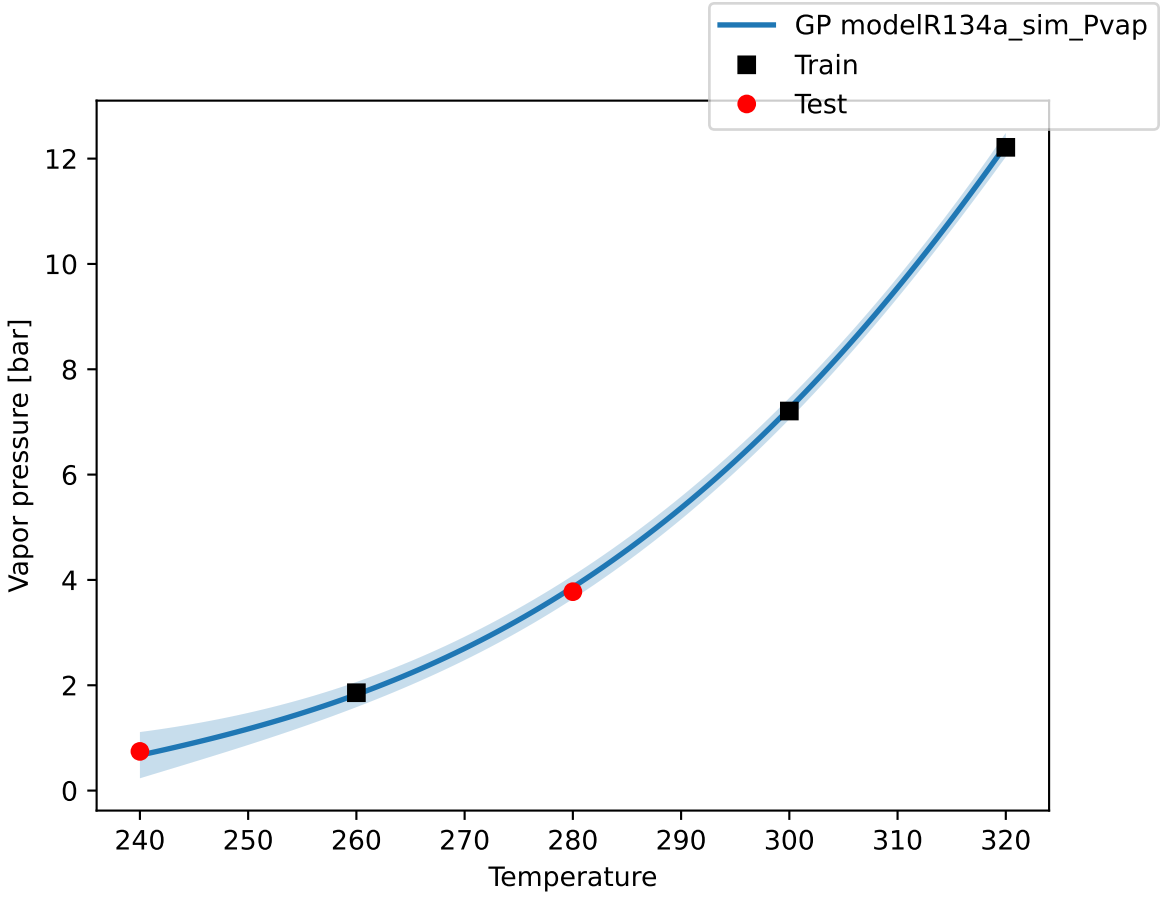
Temperature


GP modelR134a_sim_Pvap
Train
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Vapor pressure [bar]
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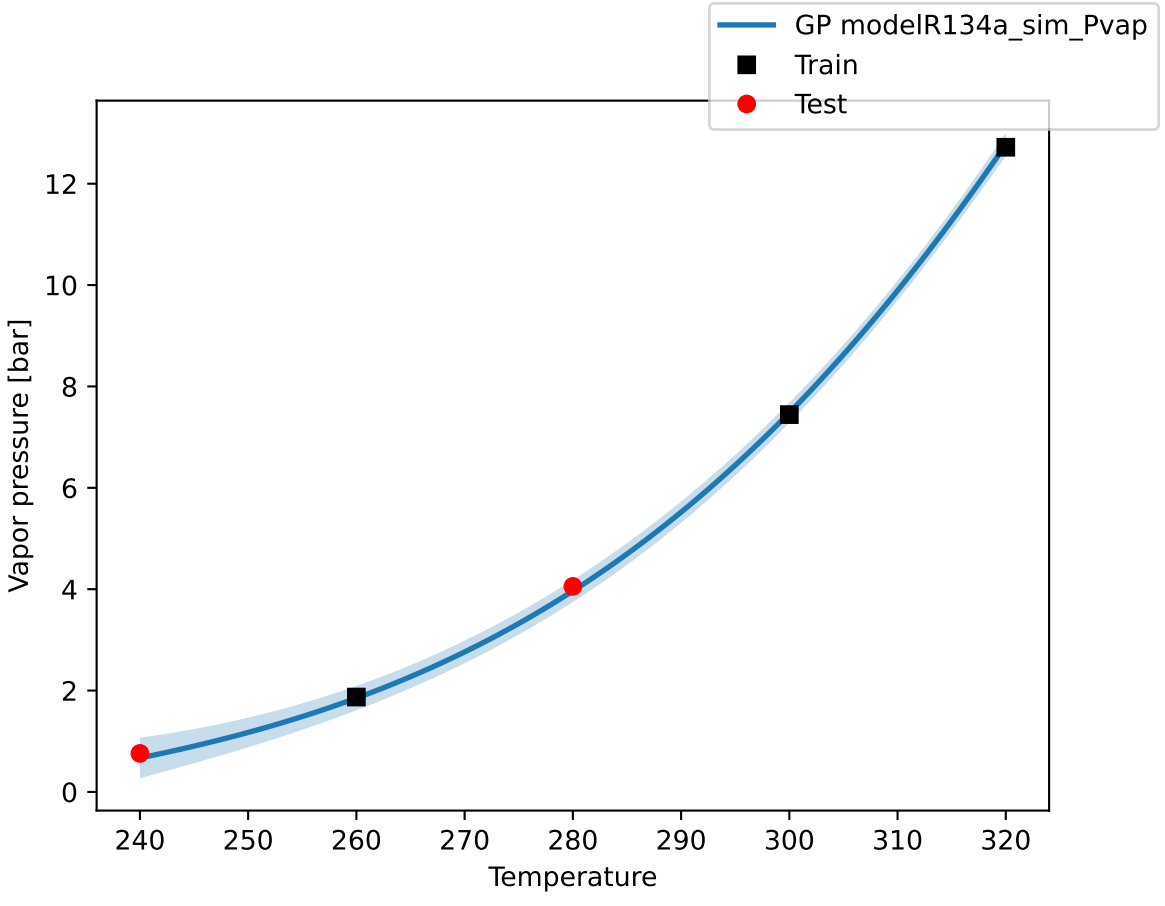
Temperature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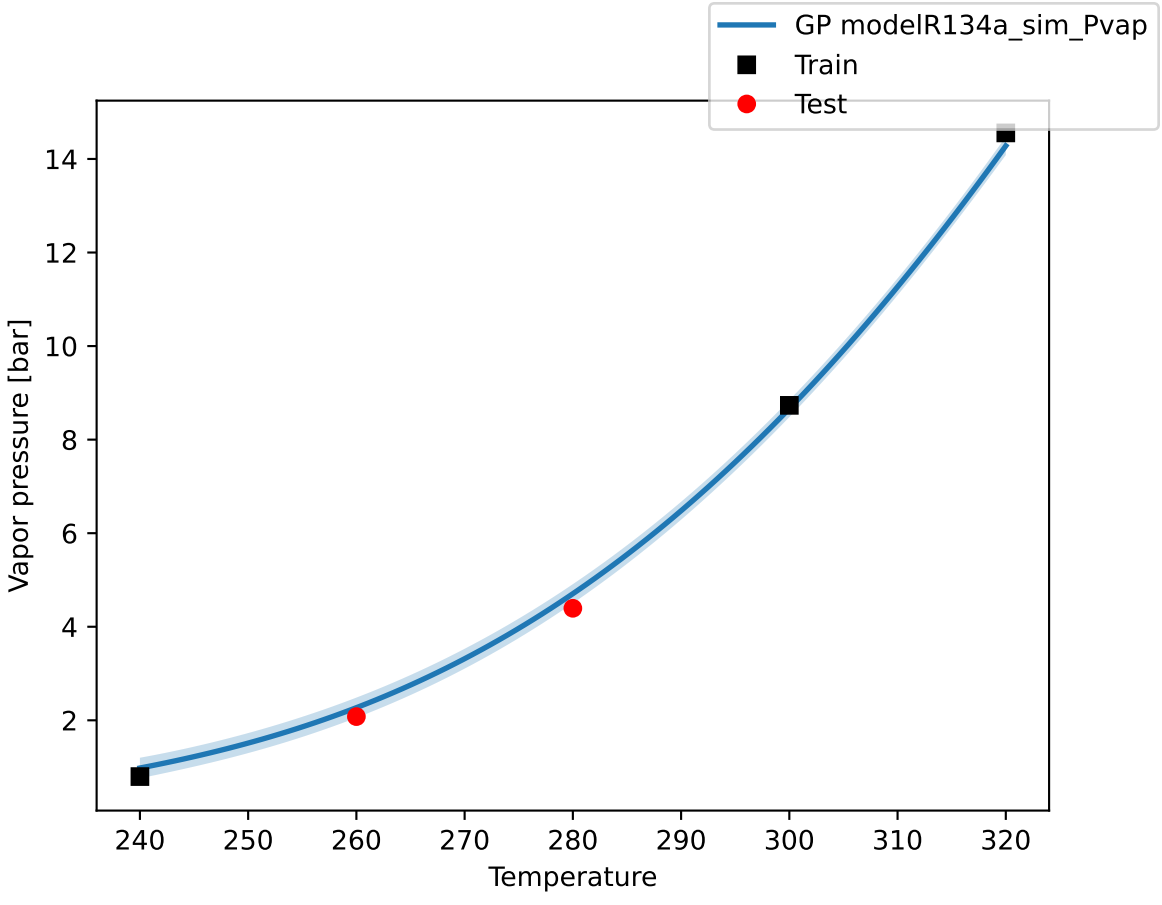
Temperature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Train
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Vapor pressure [bar]
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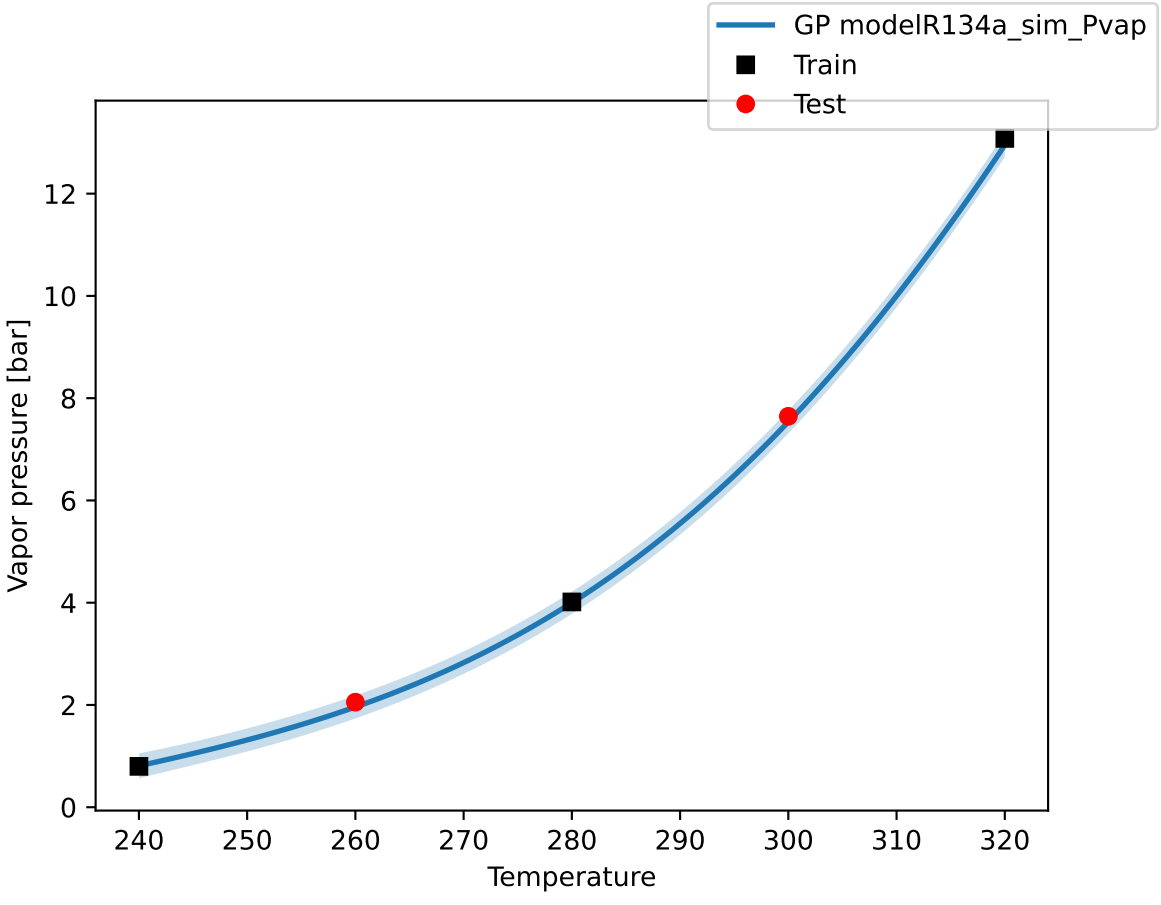
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Train
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300
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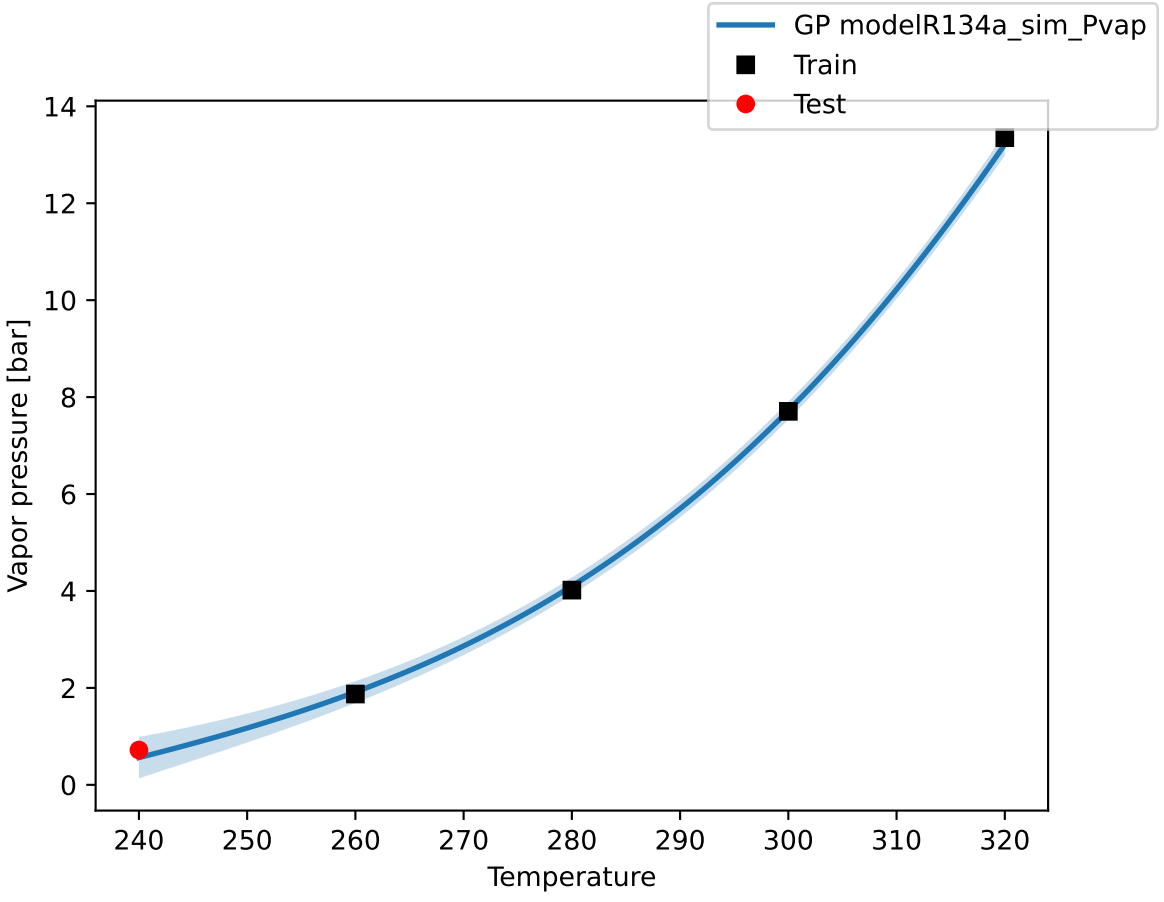
320
Temperature


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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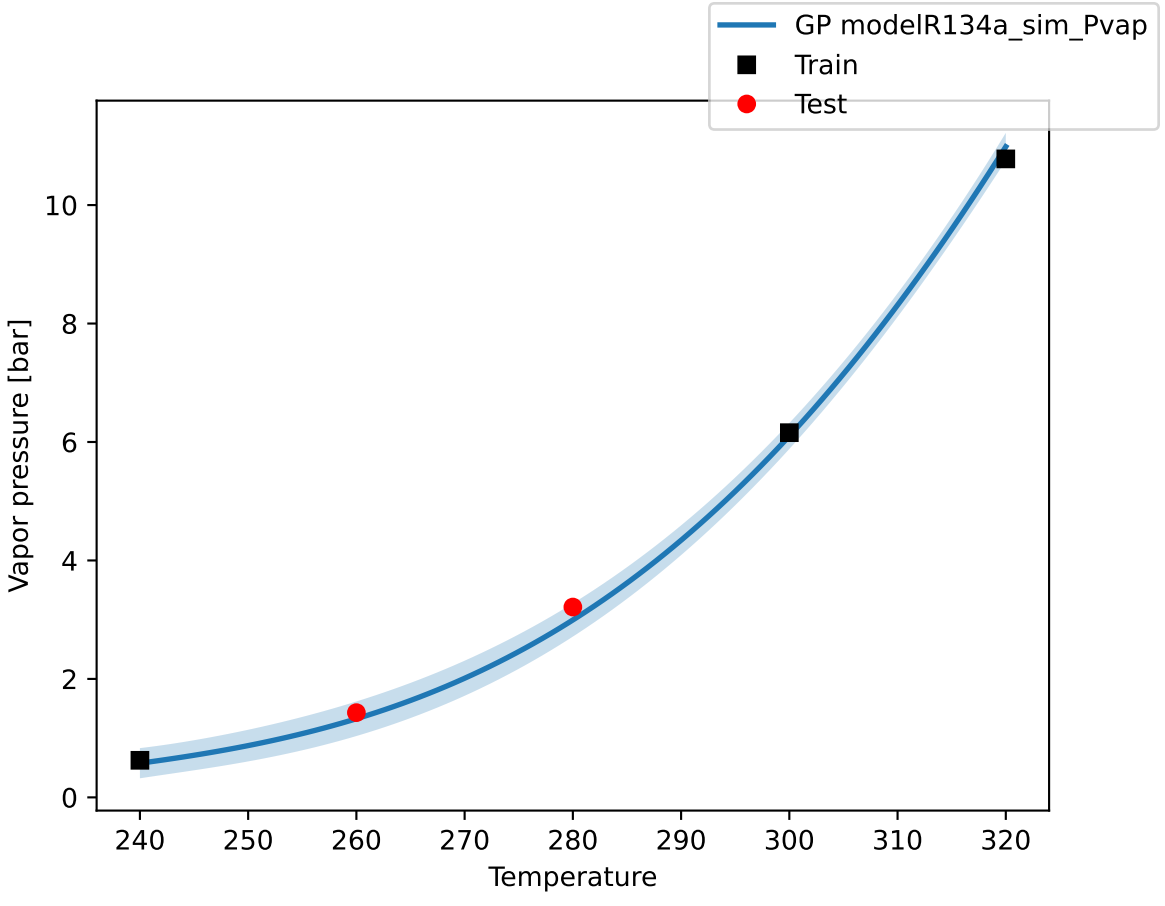
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
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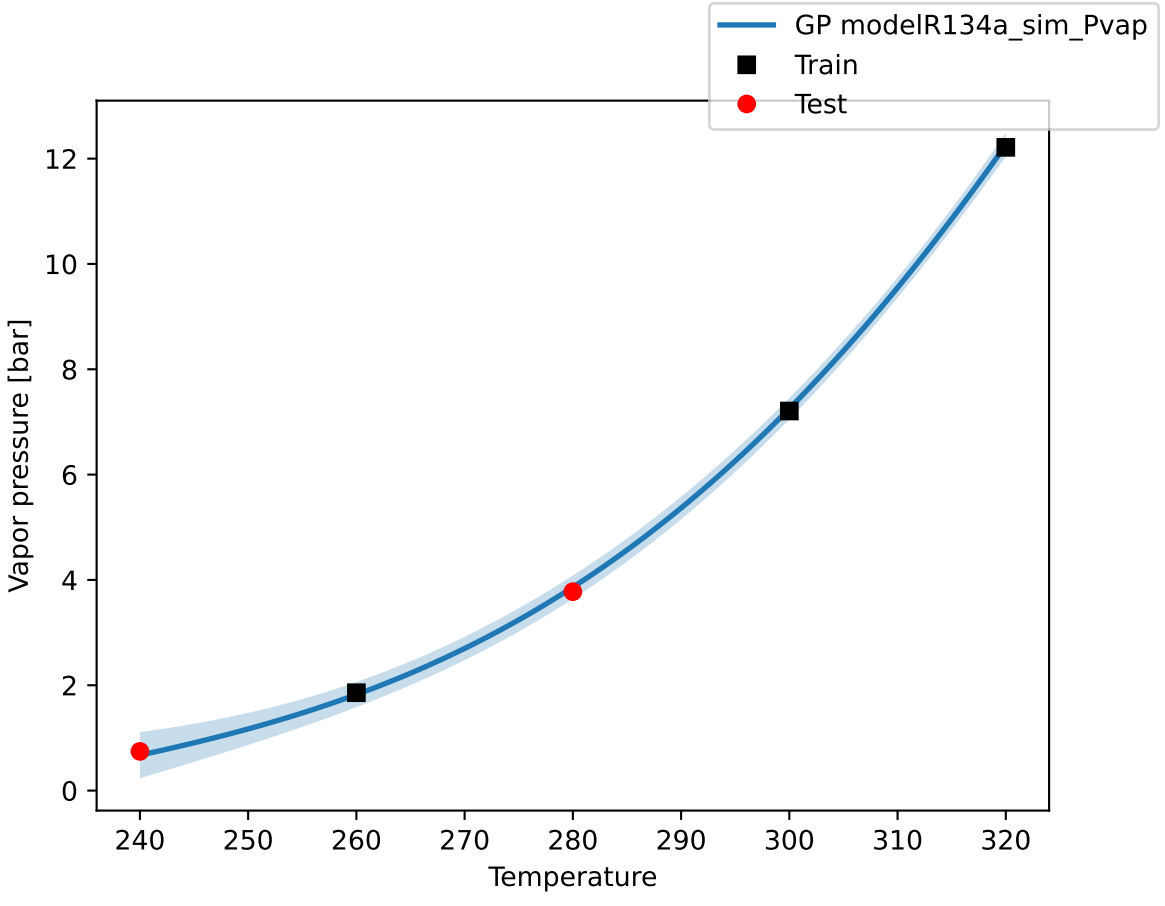
Temperature


GP modelR134a_sim_Pvap
Train
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Vapor pressure [bar]
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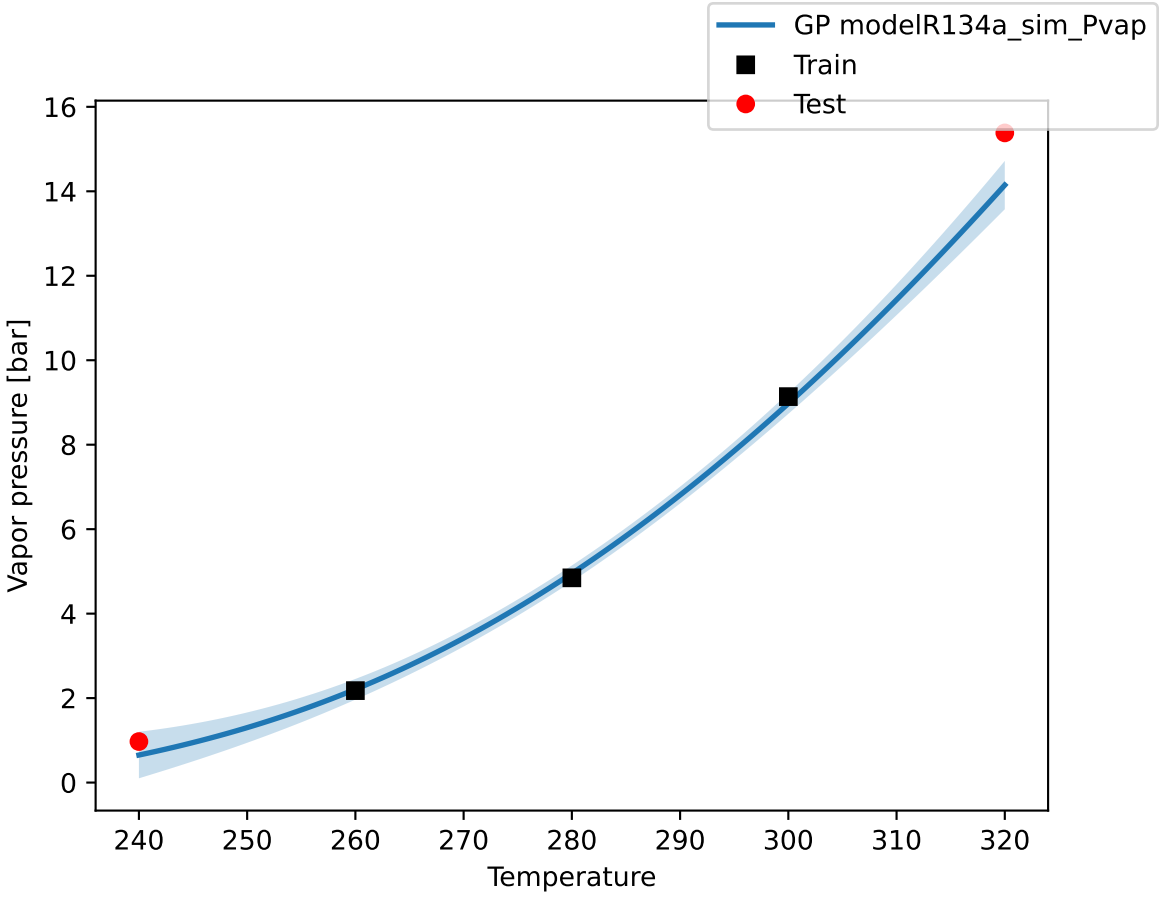
Temperature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Train
Test
Vapor pressure [bar]
Temperature
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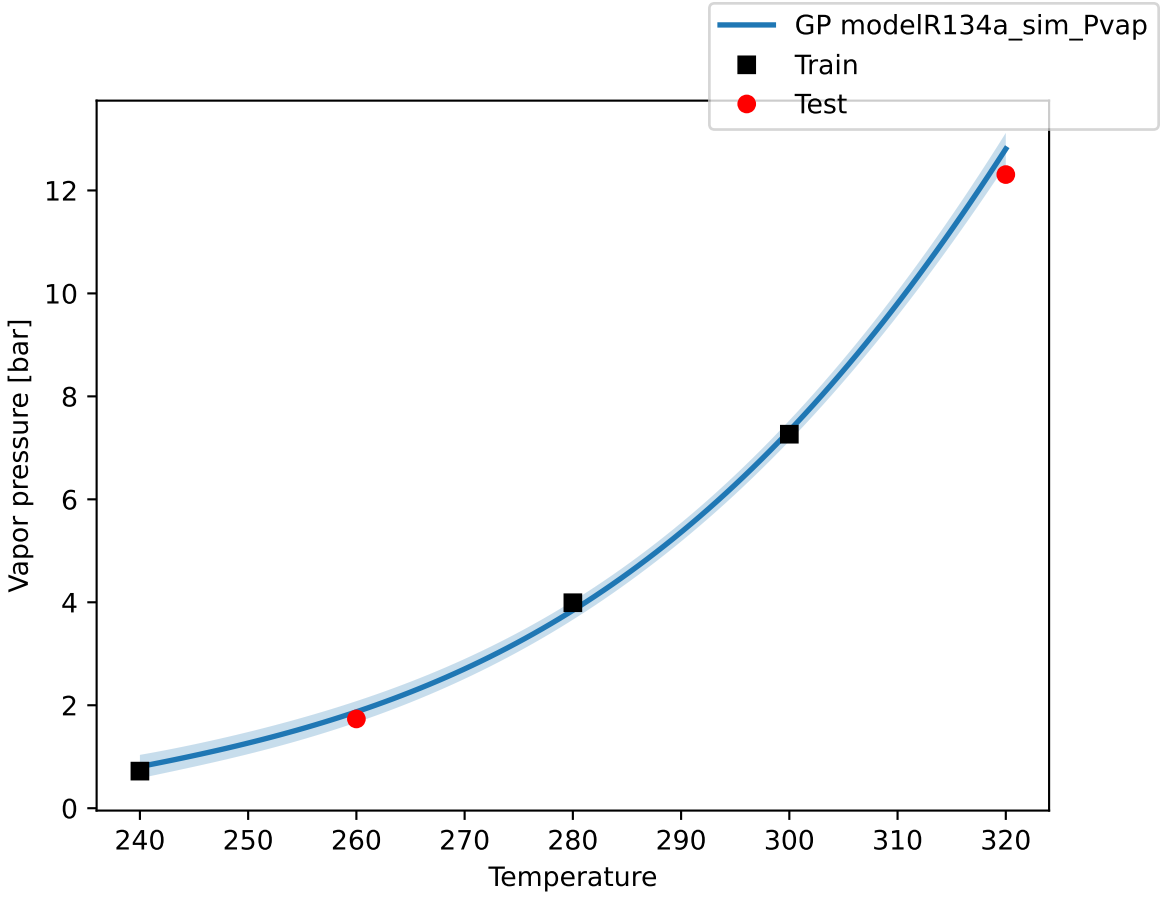
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
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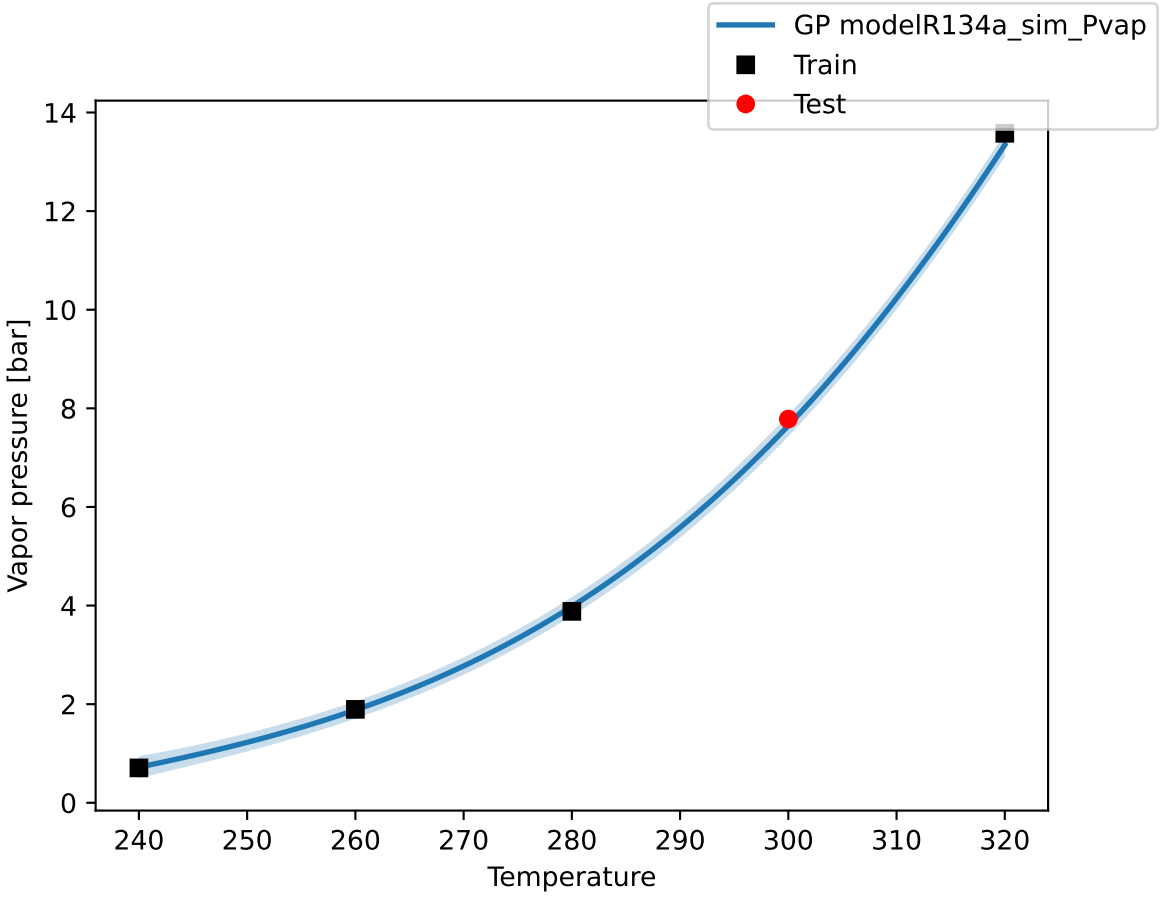
Temperature


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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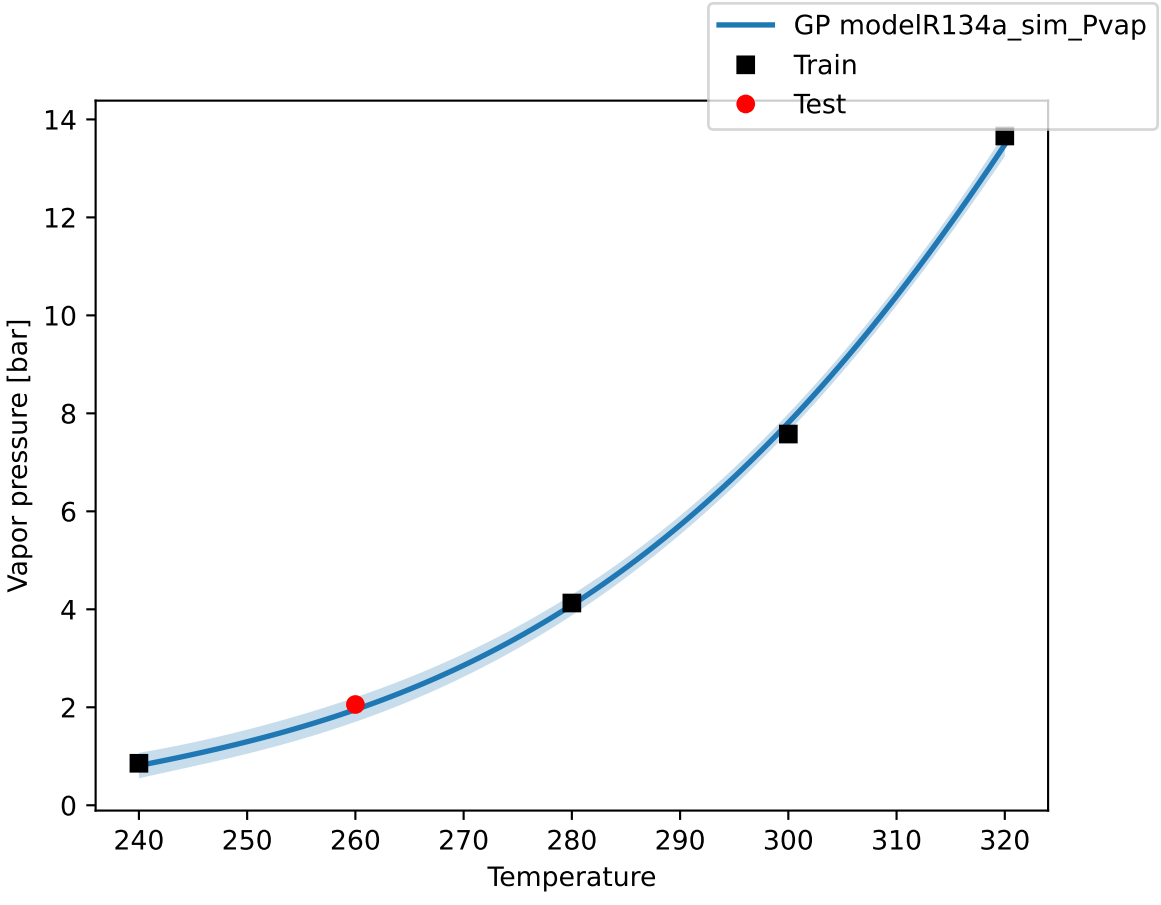
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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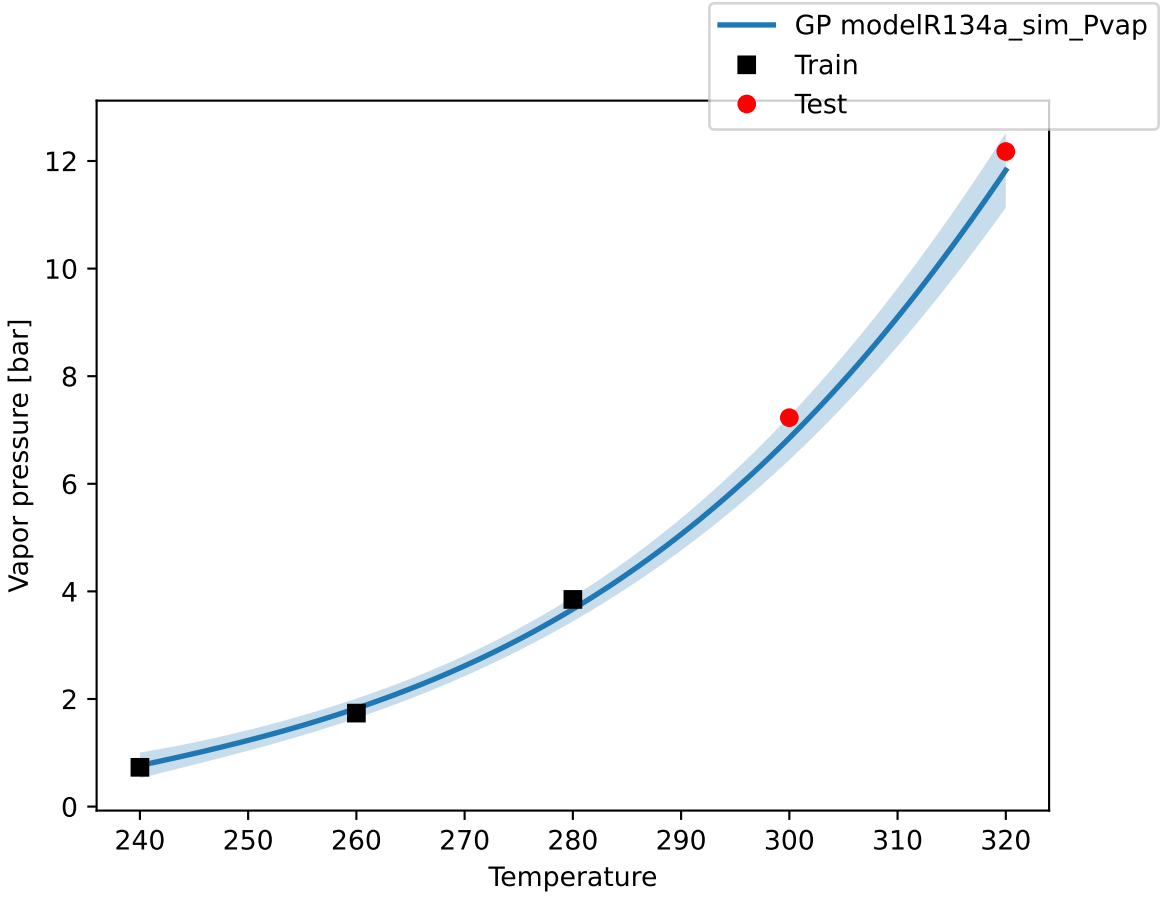
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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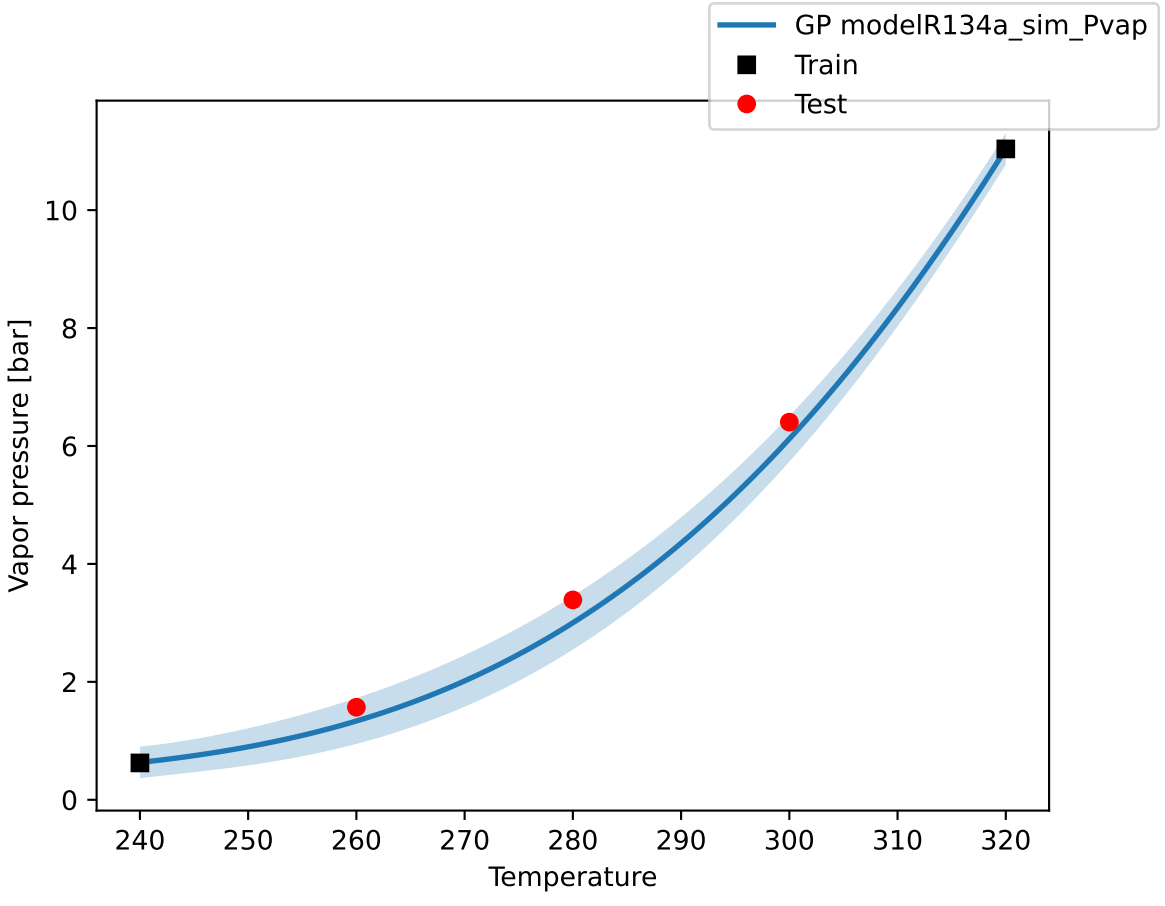
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
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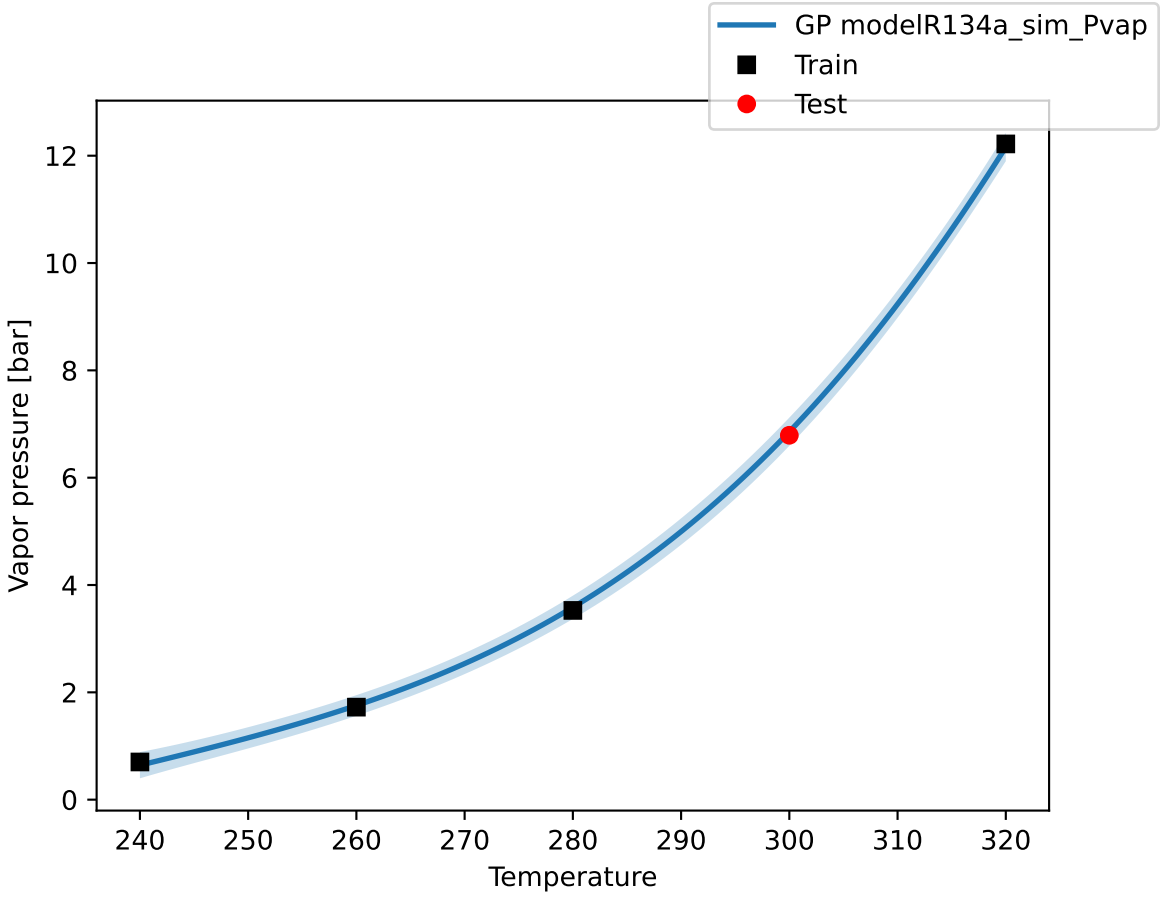
Temperature


GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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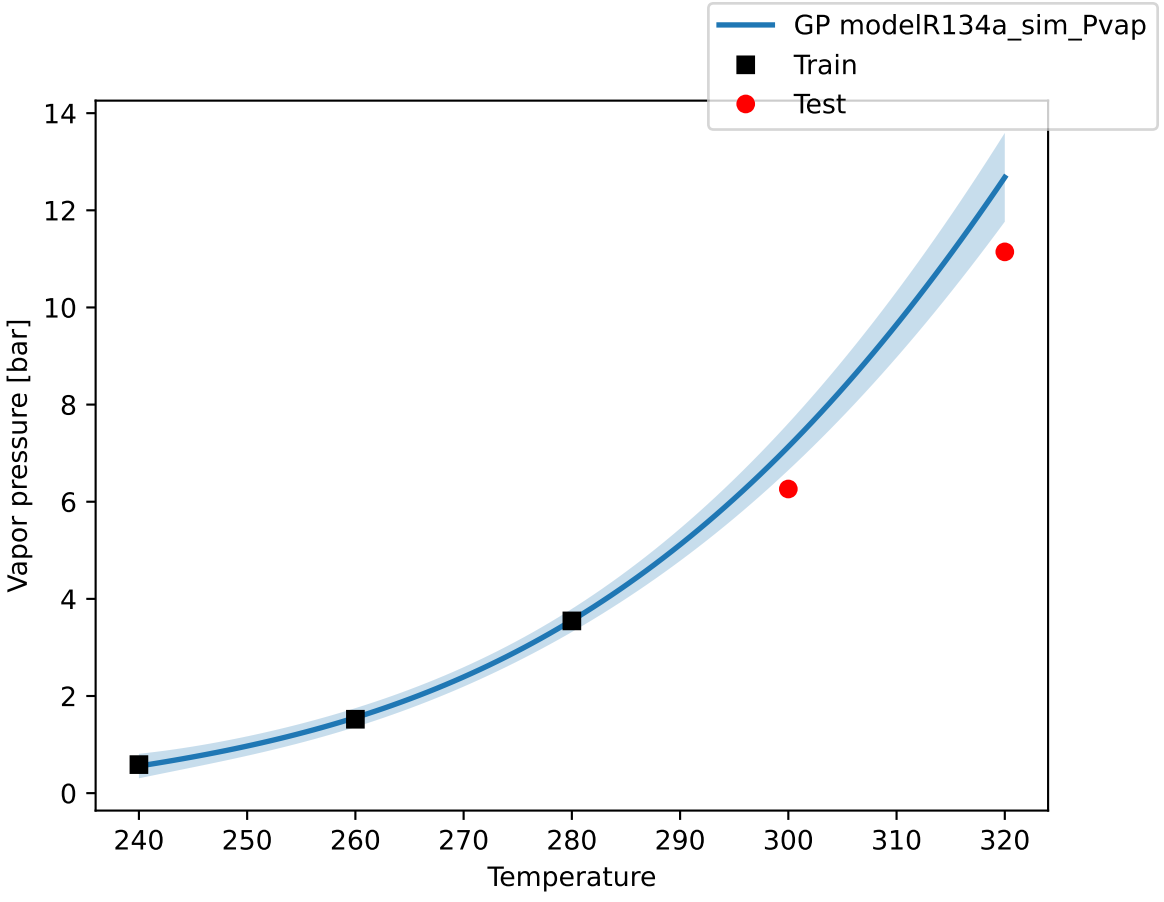
GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
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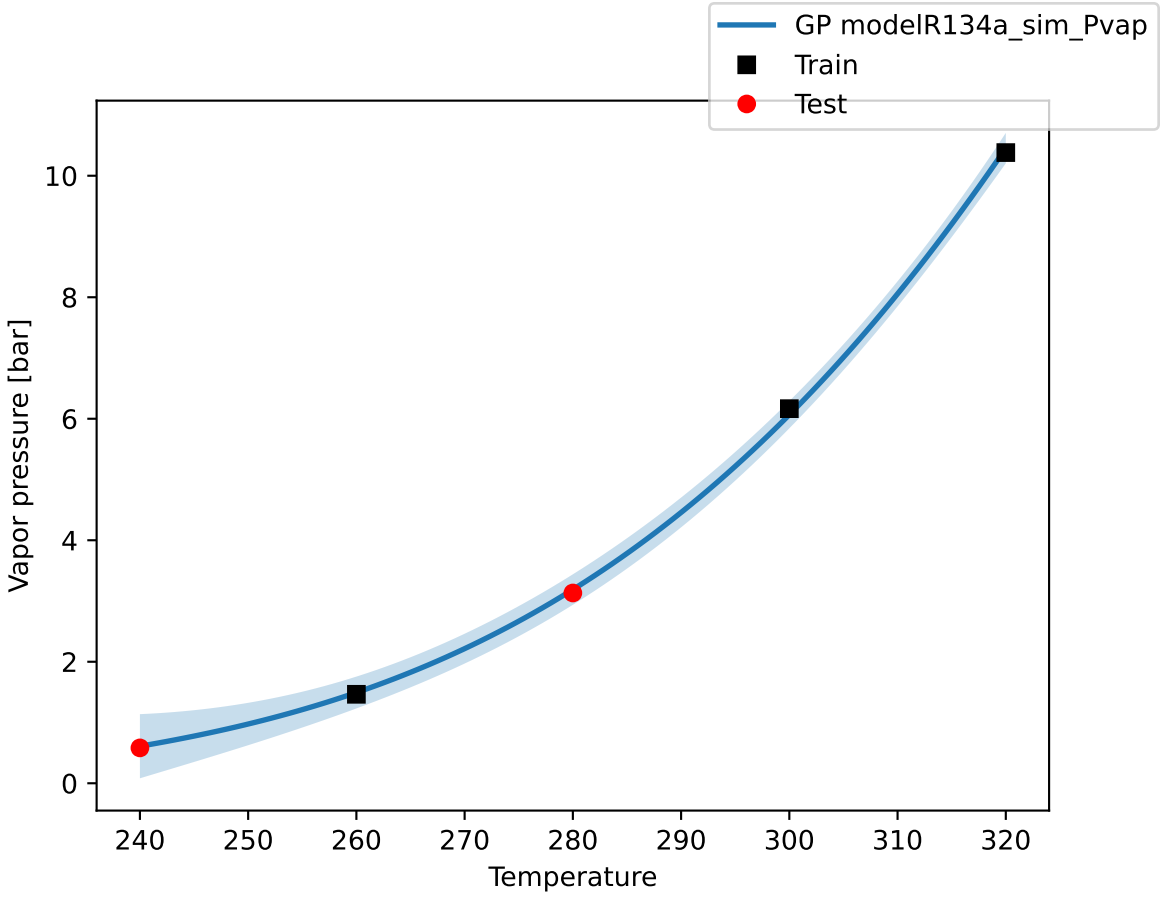
GP modelR134a_sim_Pvap
Train
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Vapor pressure [bar]
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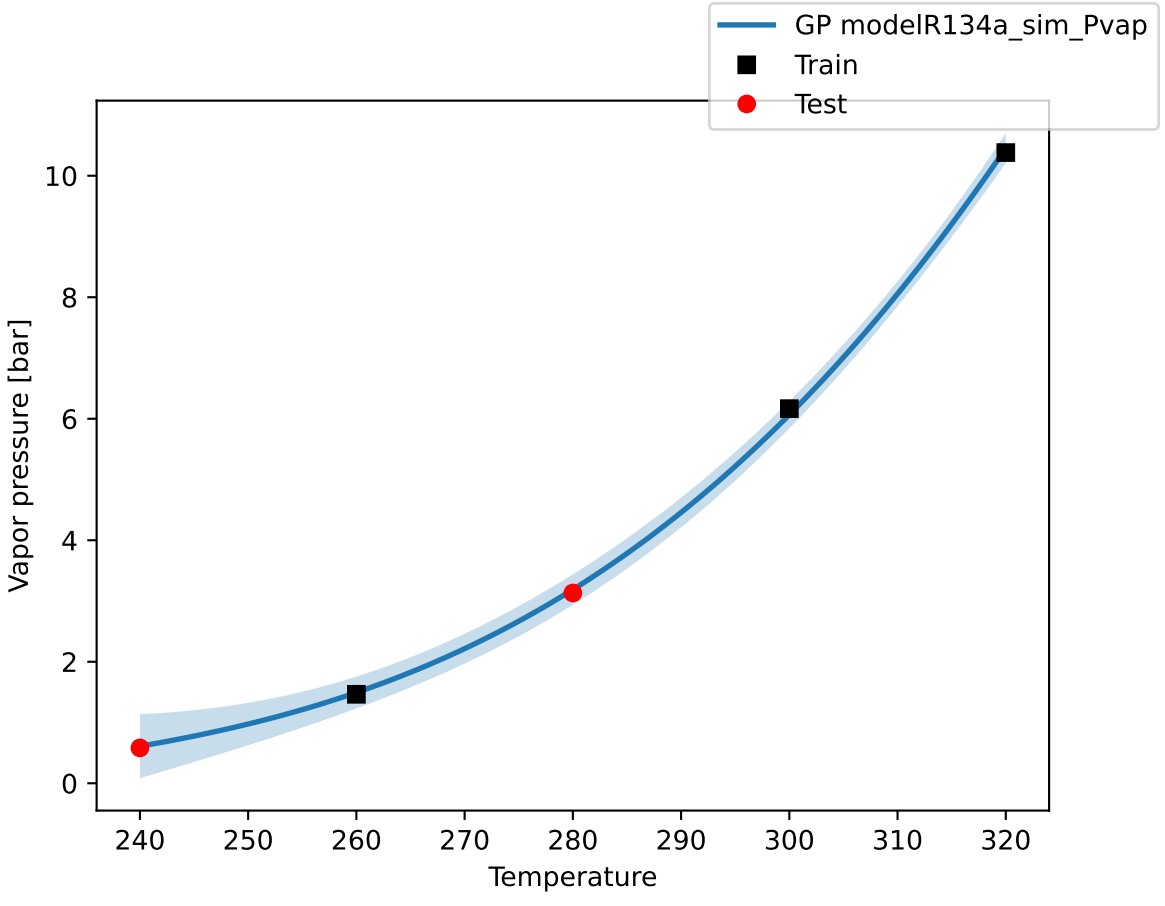
Temperature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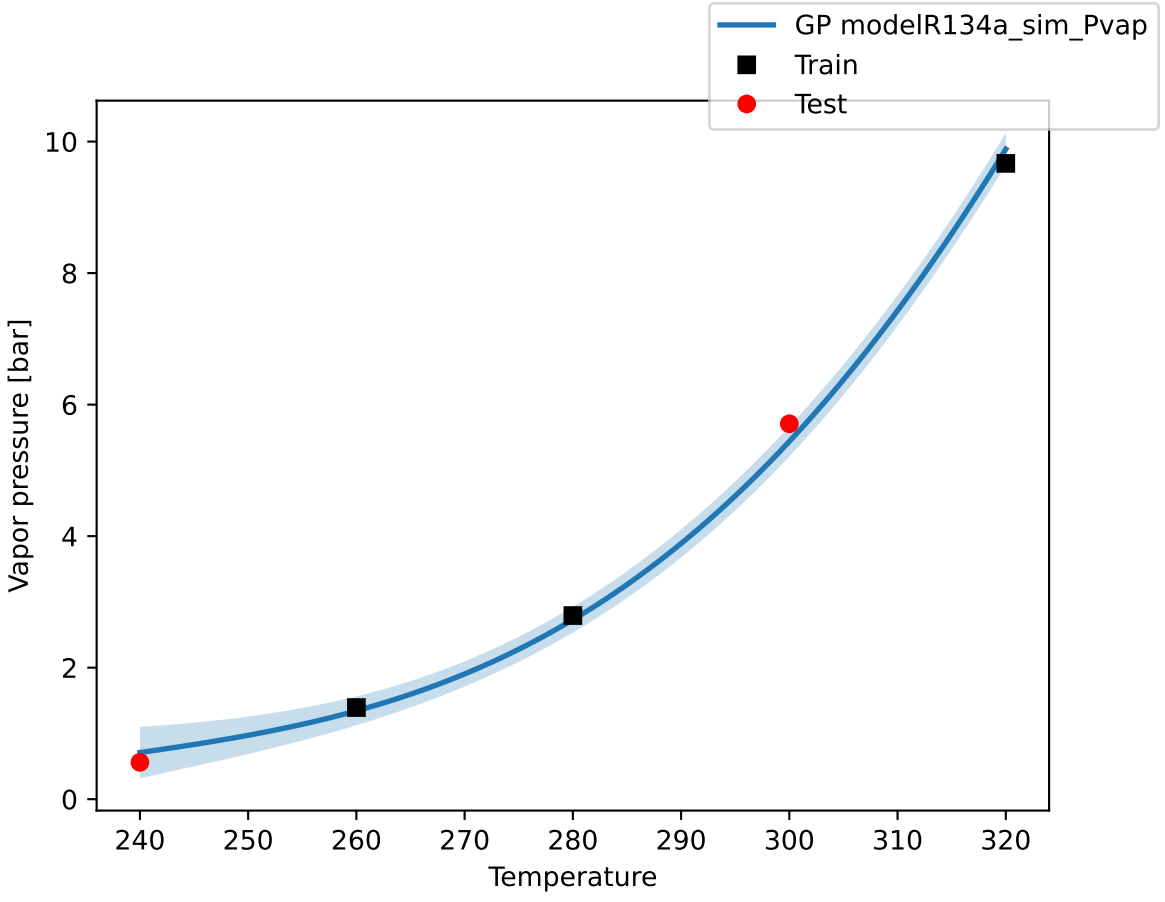
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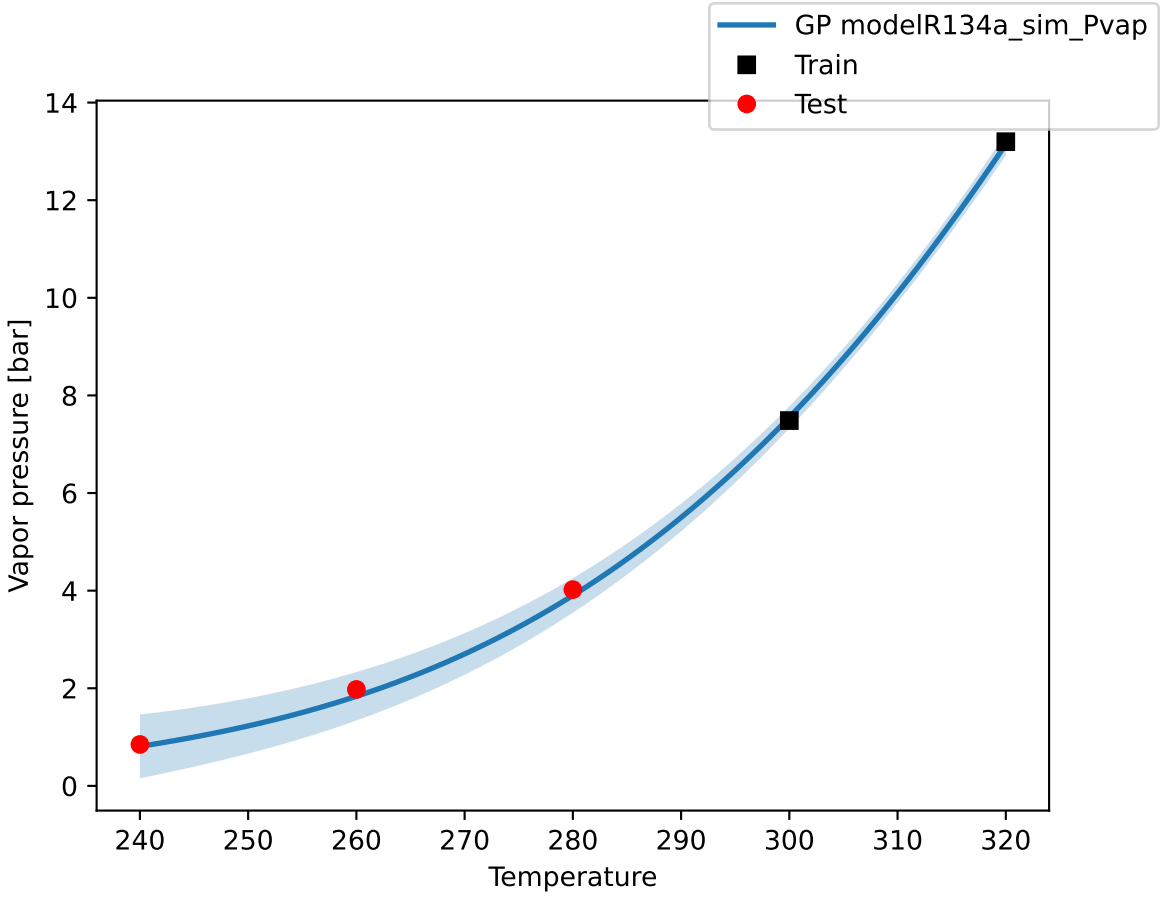
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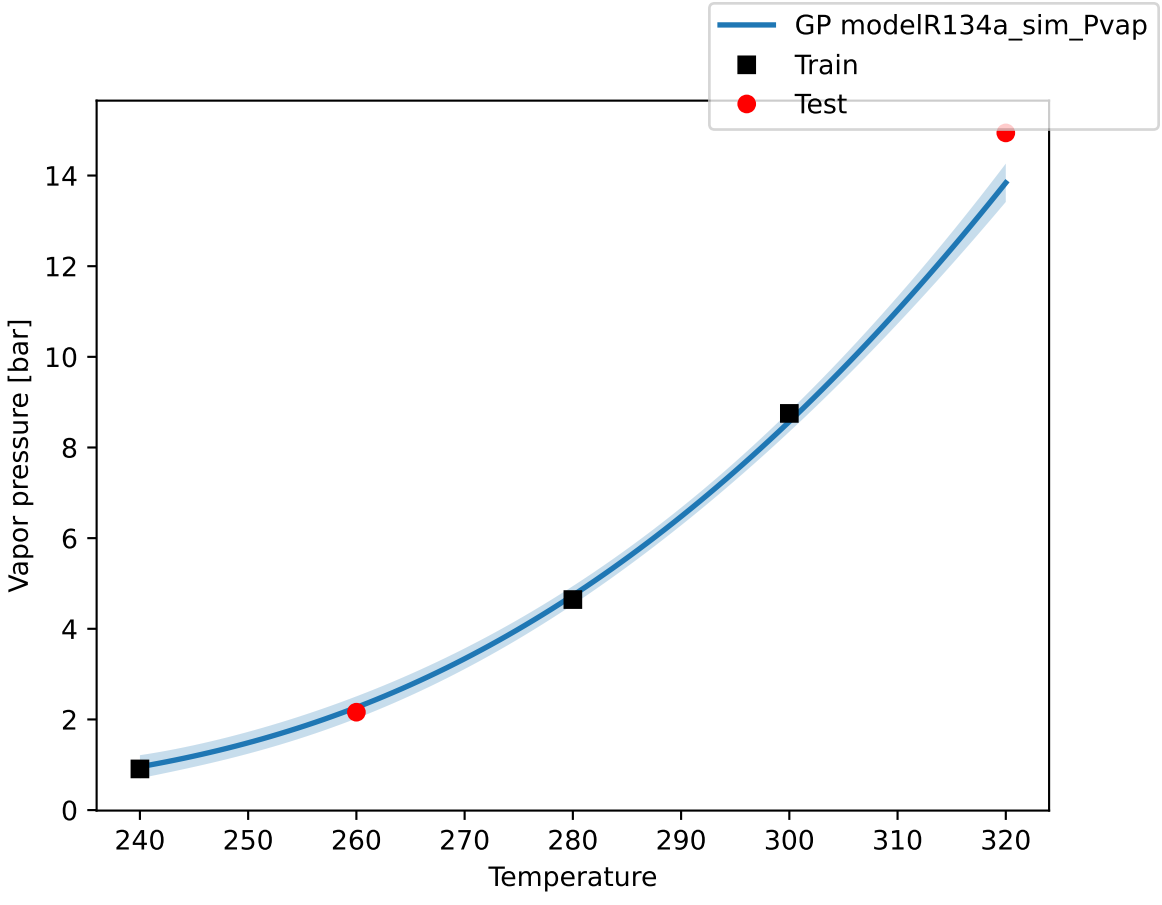
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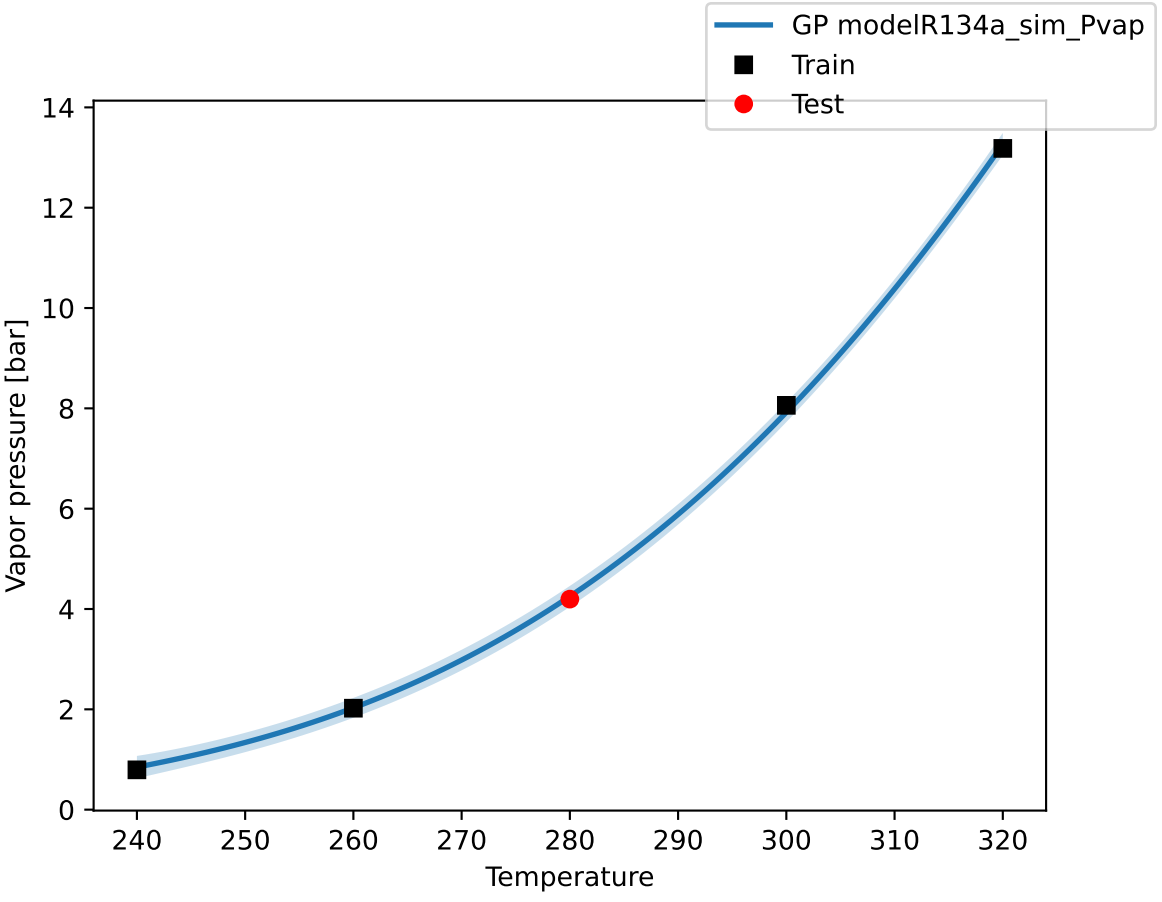
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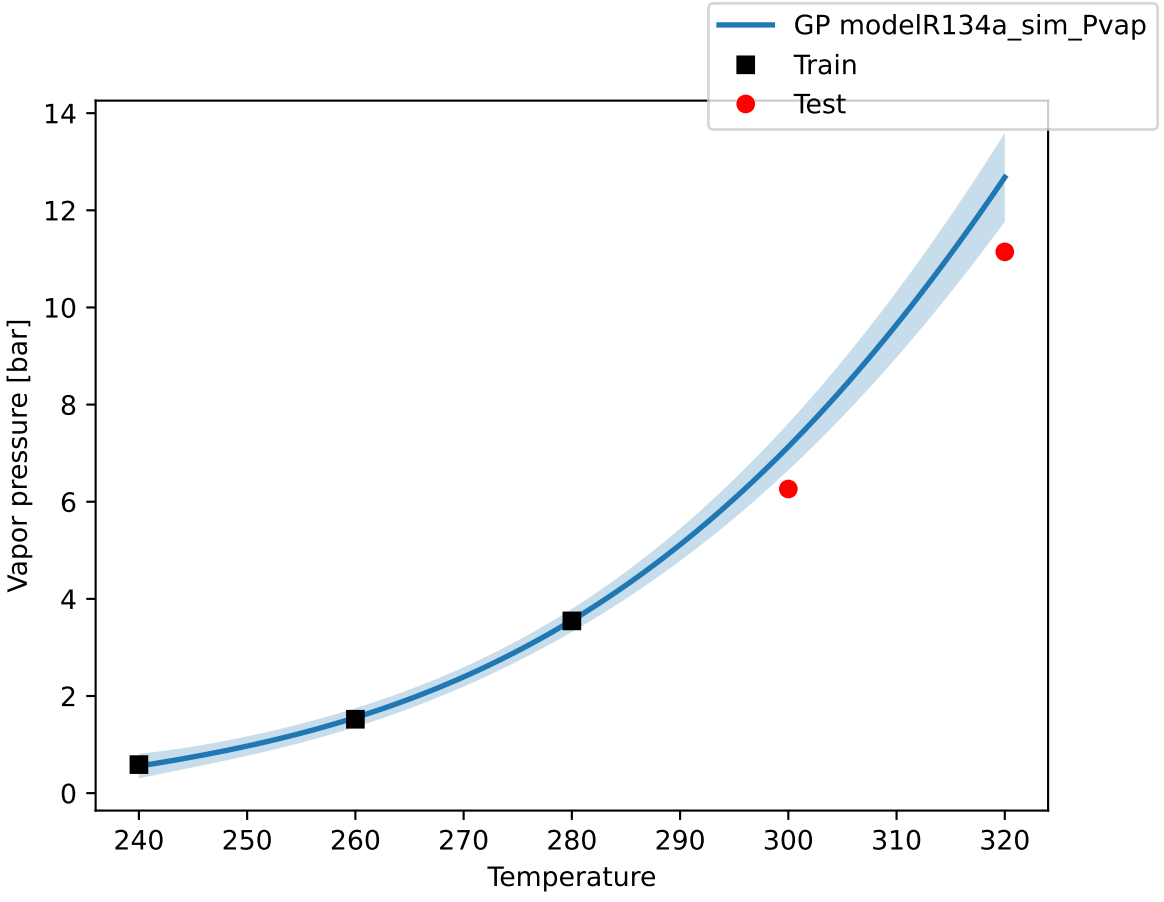
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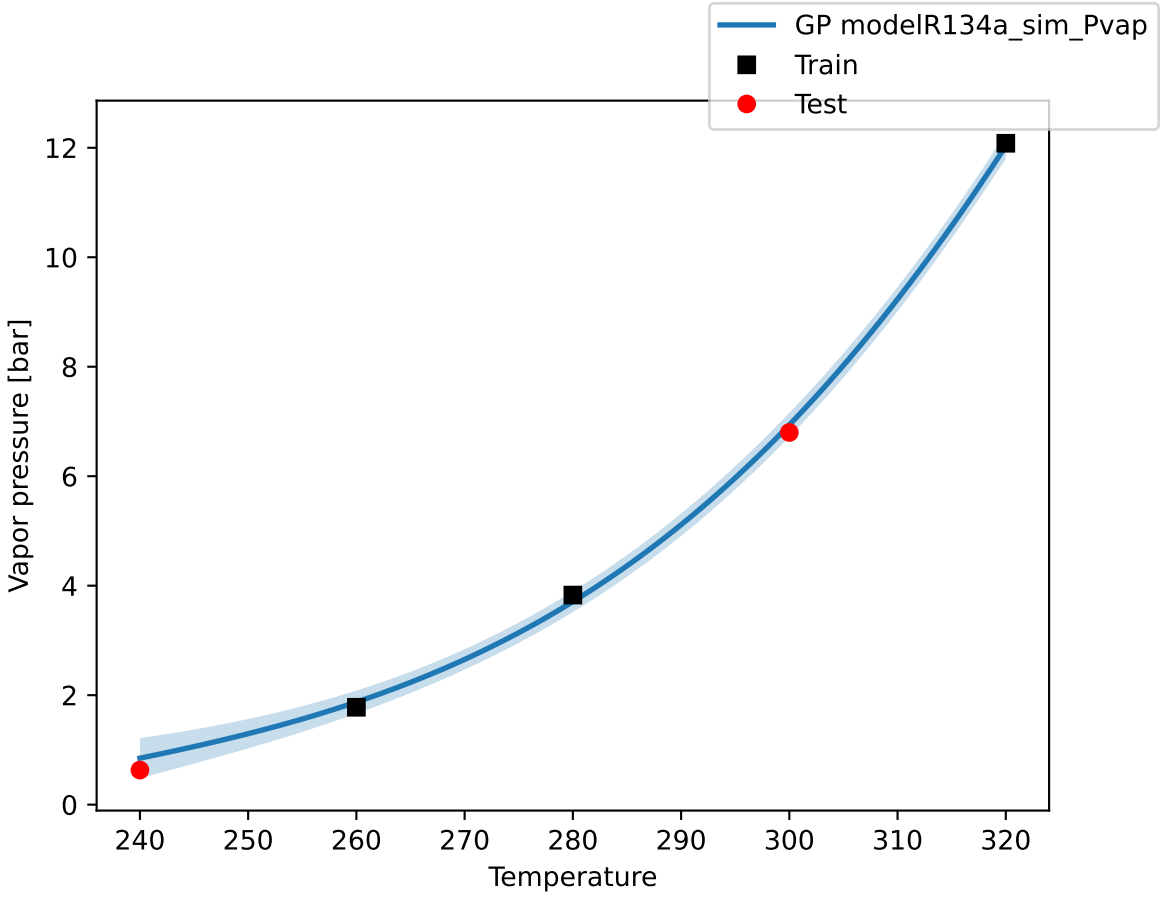
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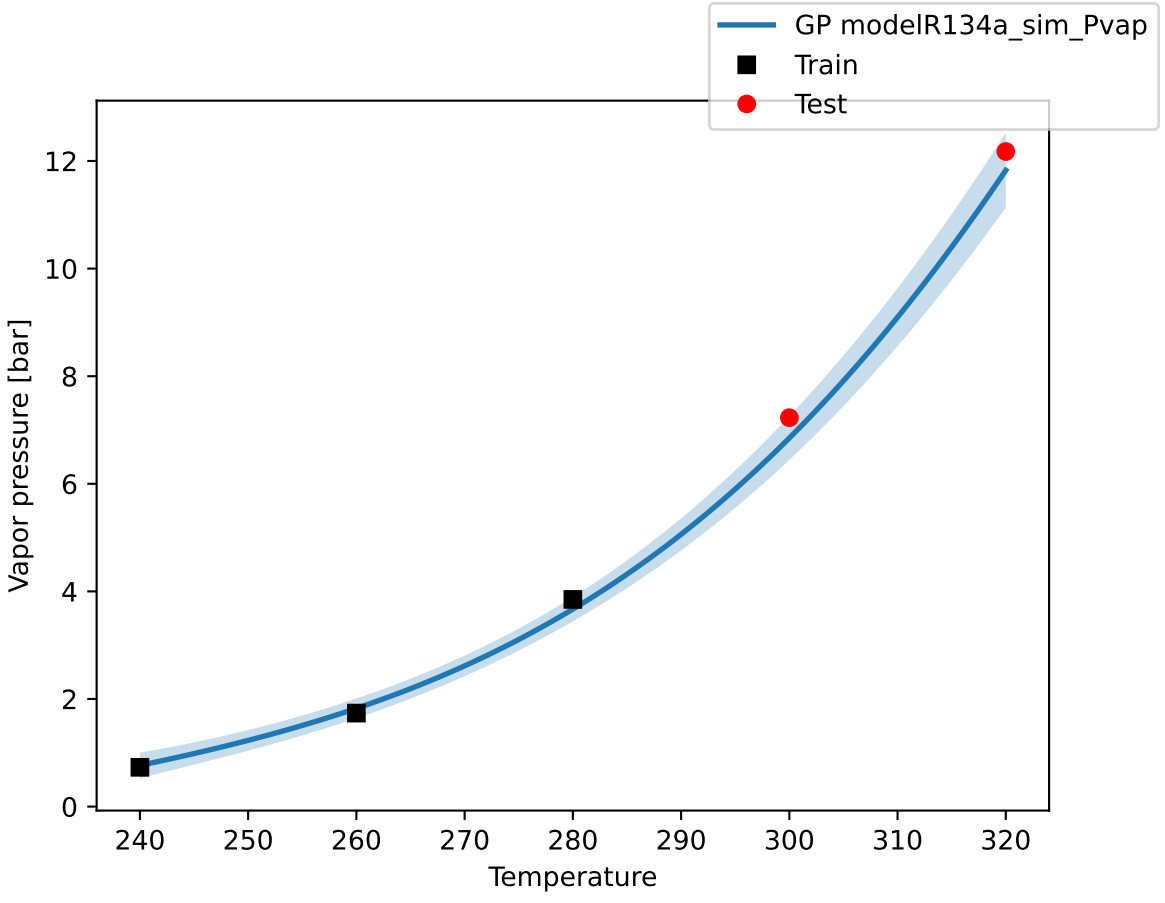
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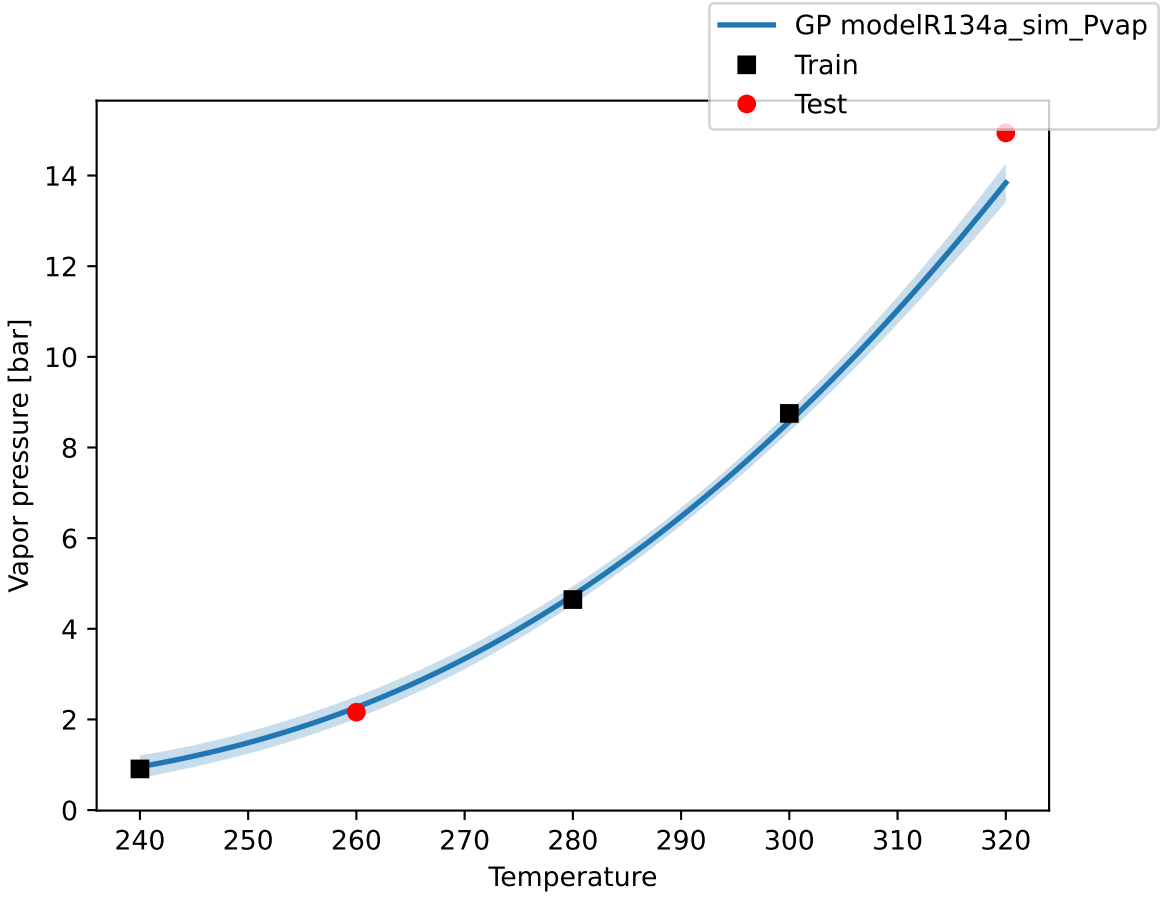
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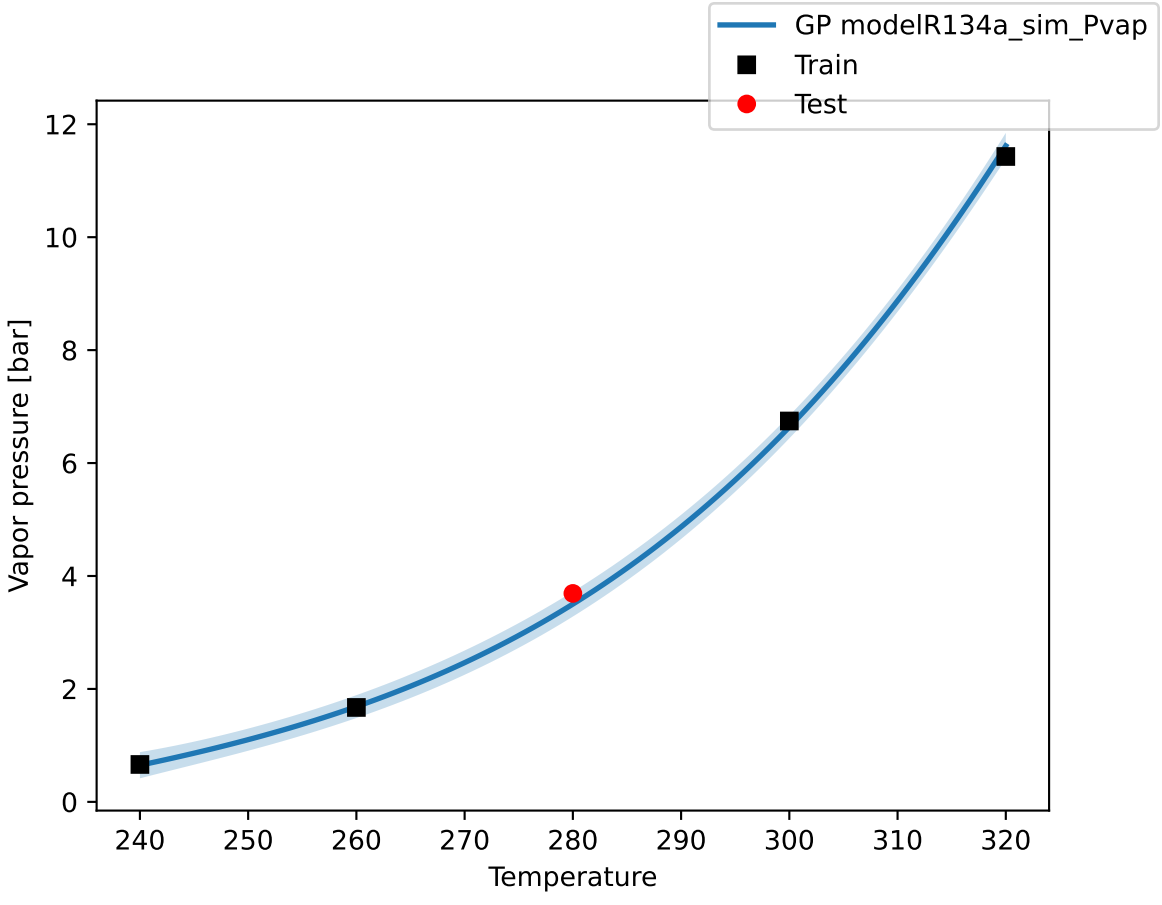
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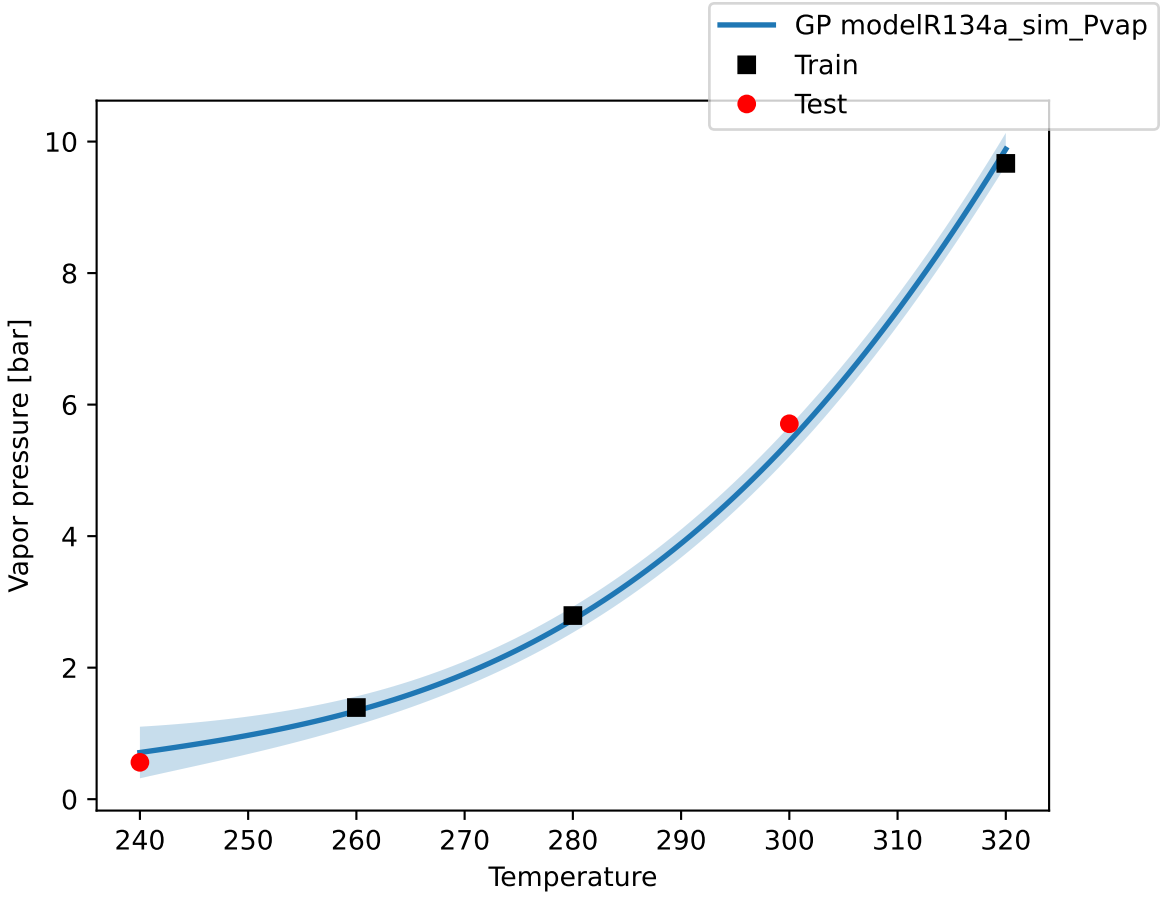
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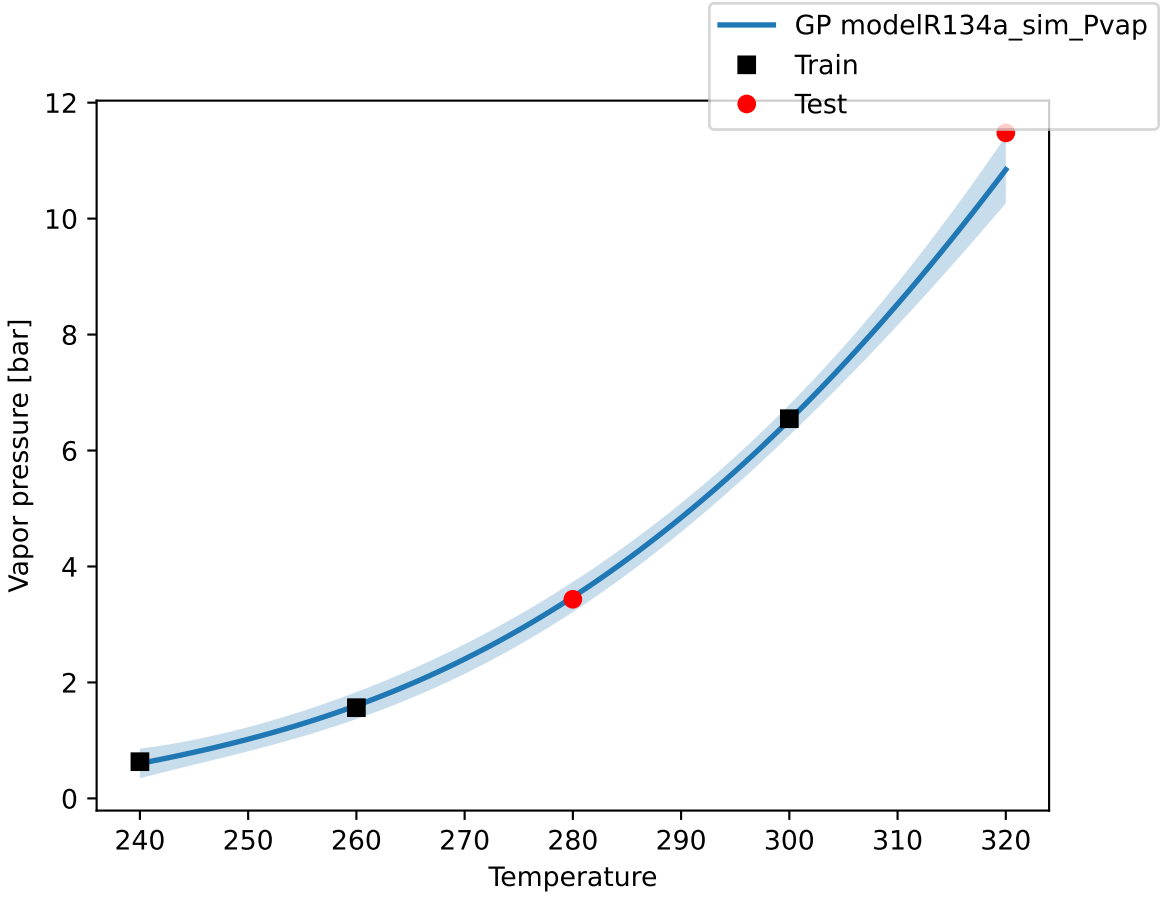
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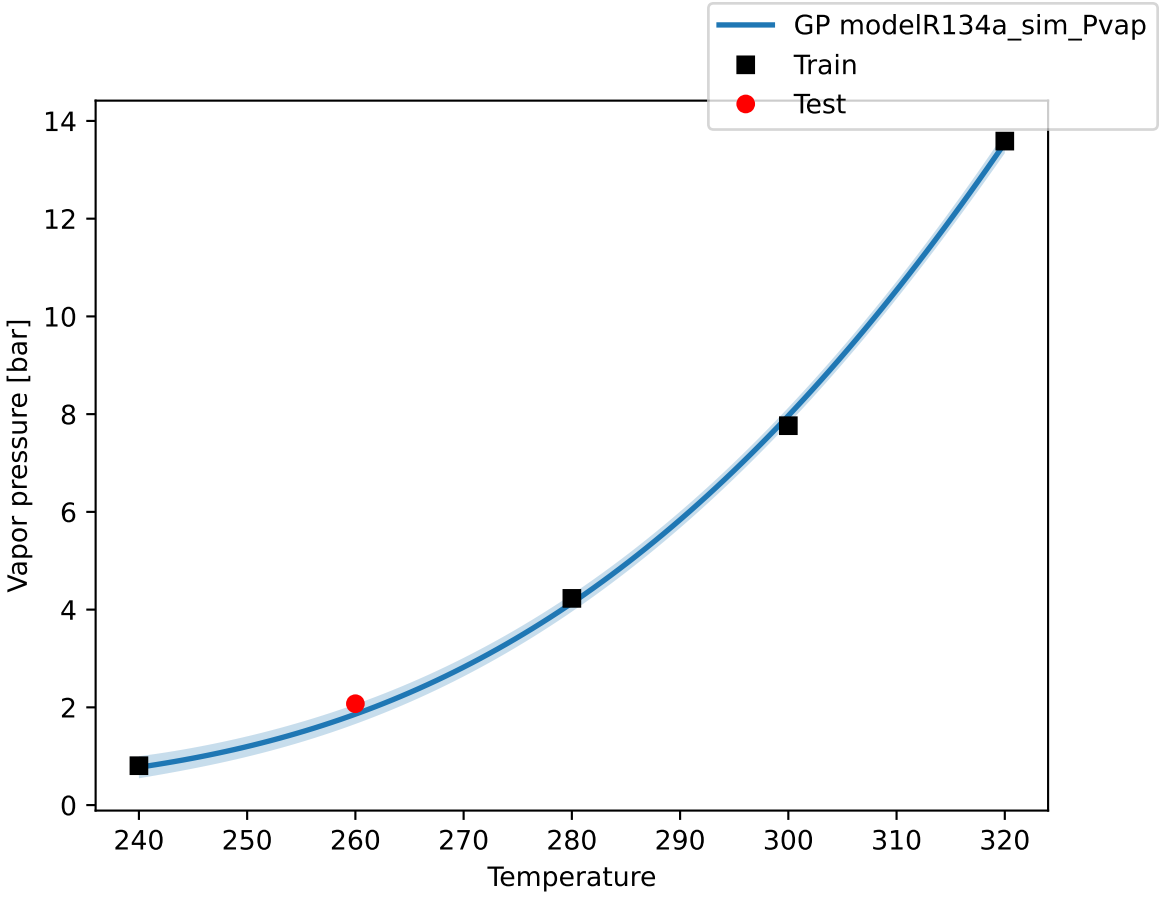
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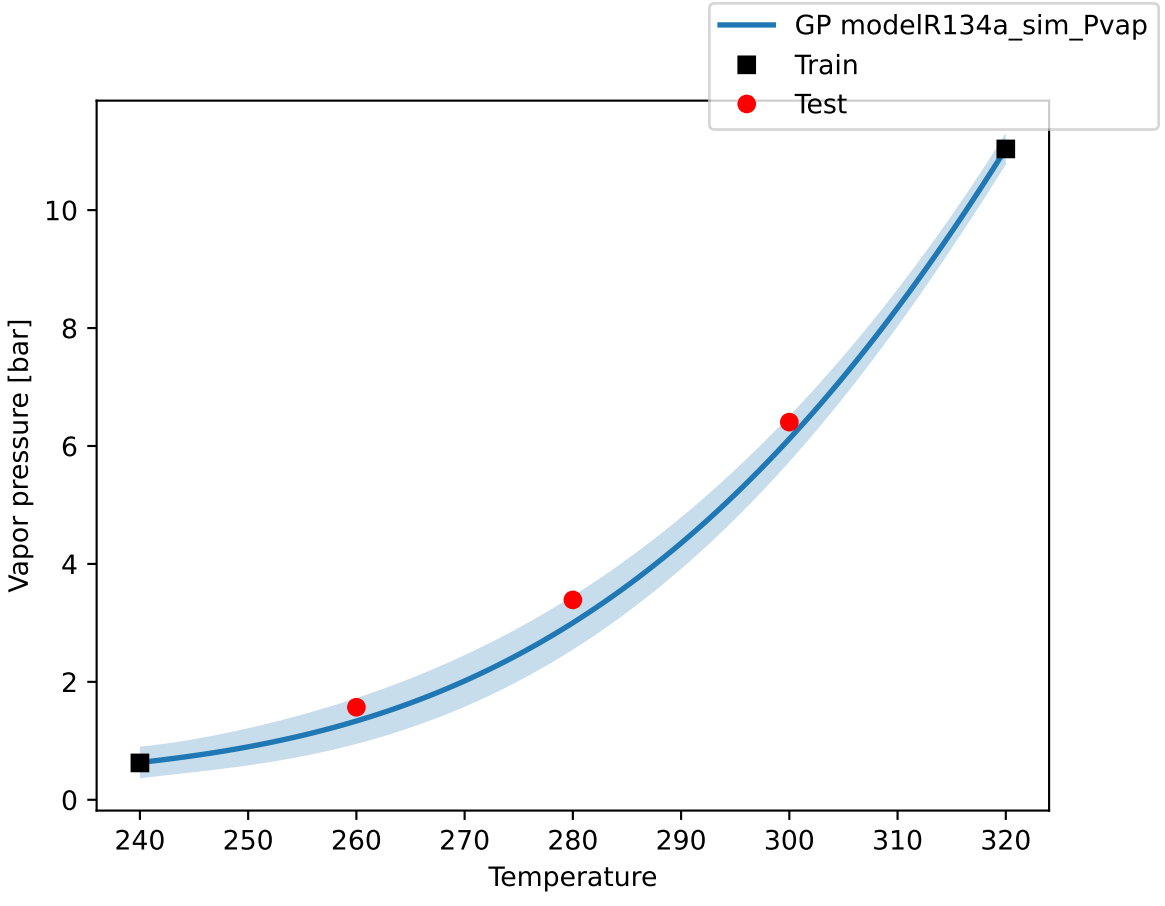
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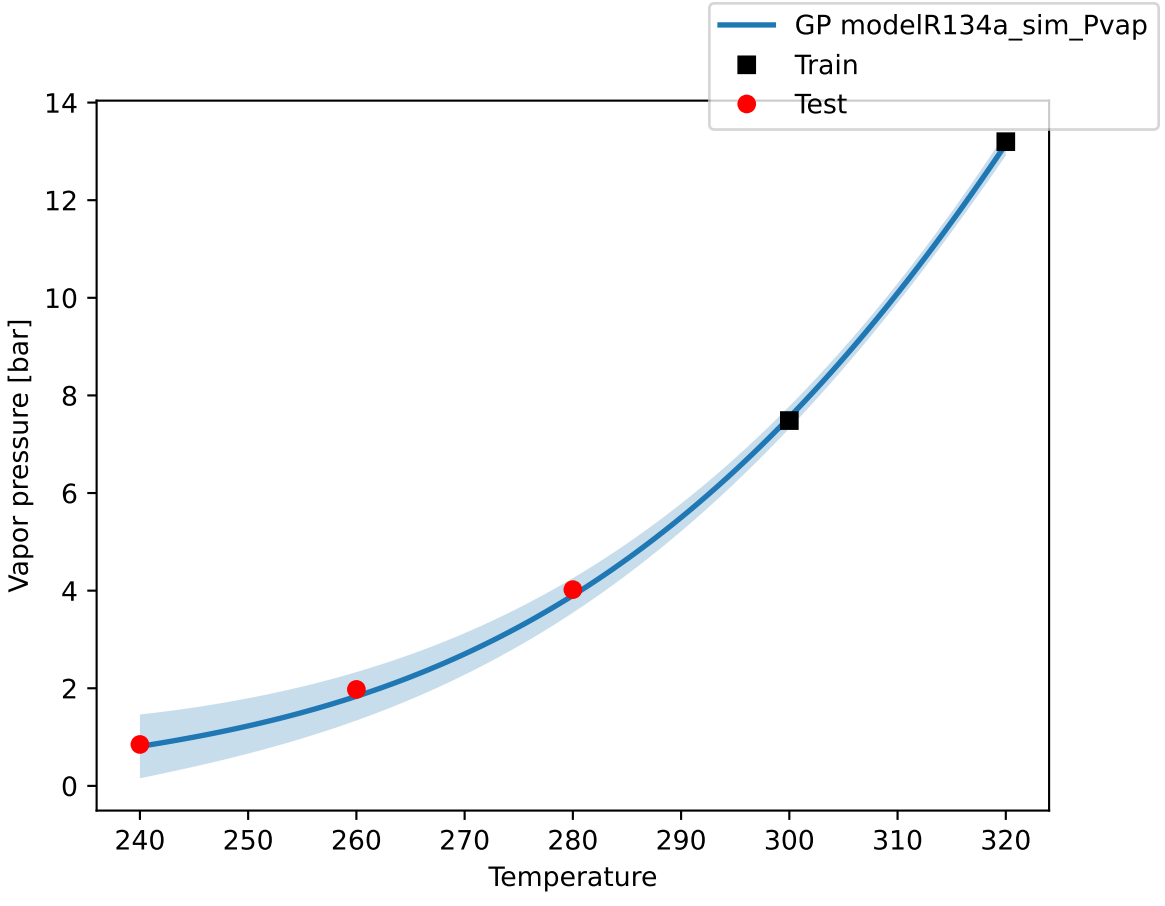
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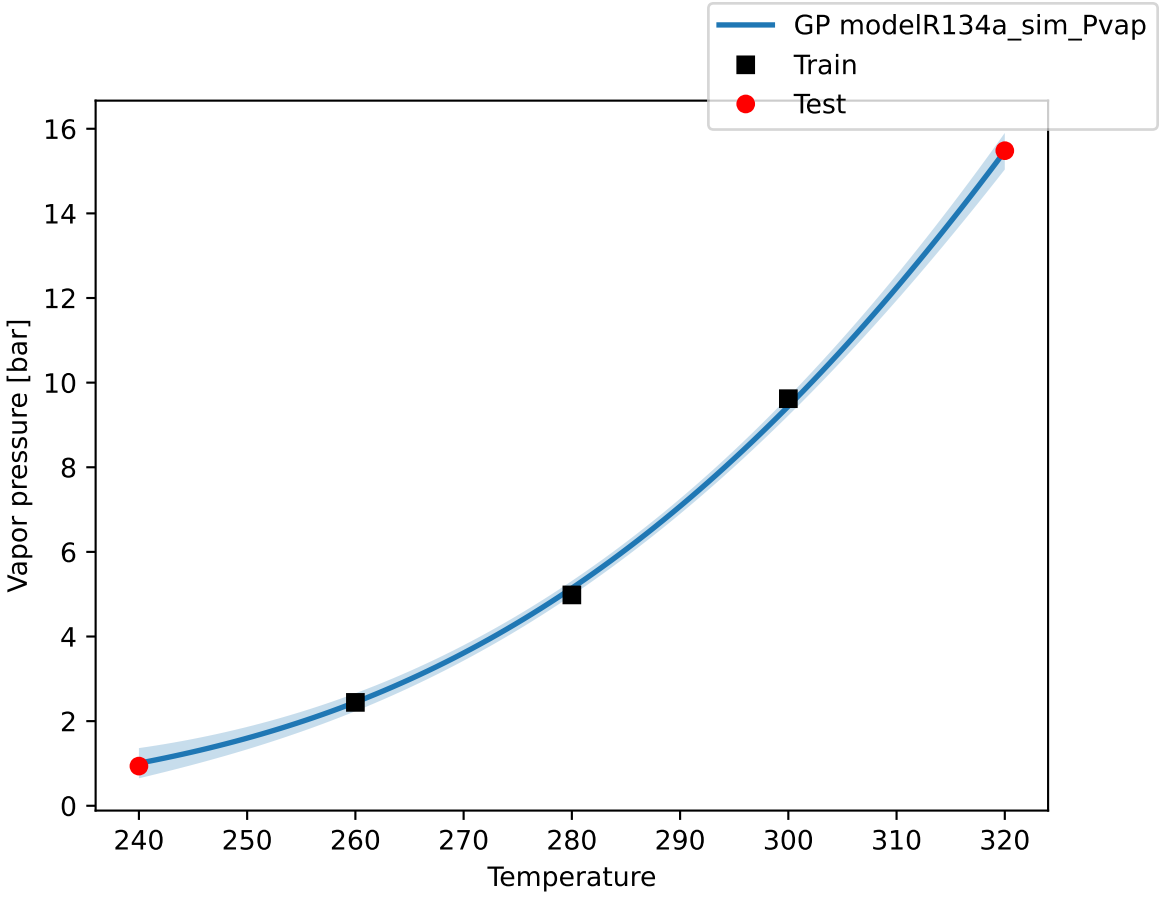
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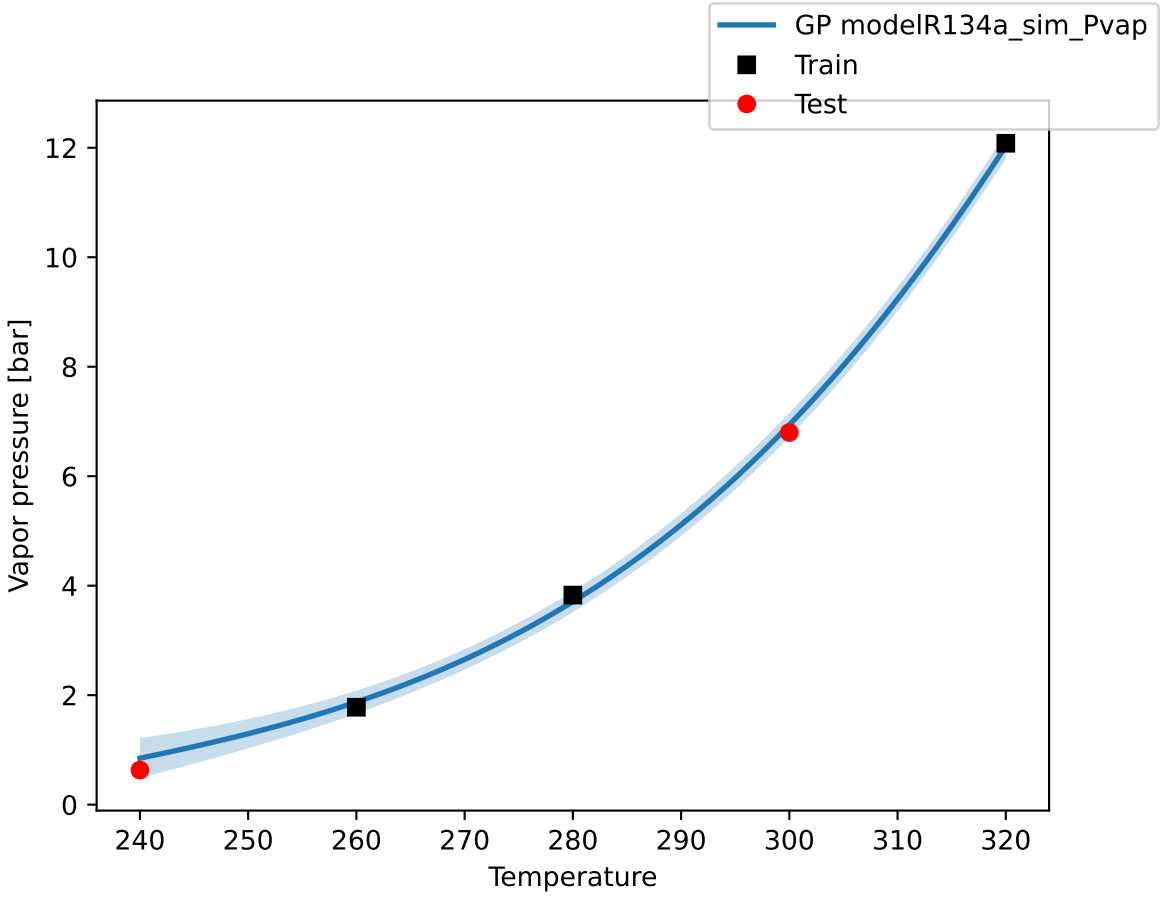
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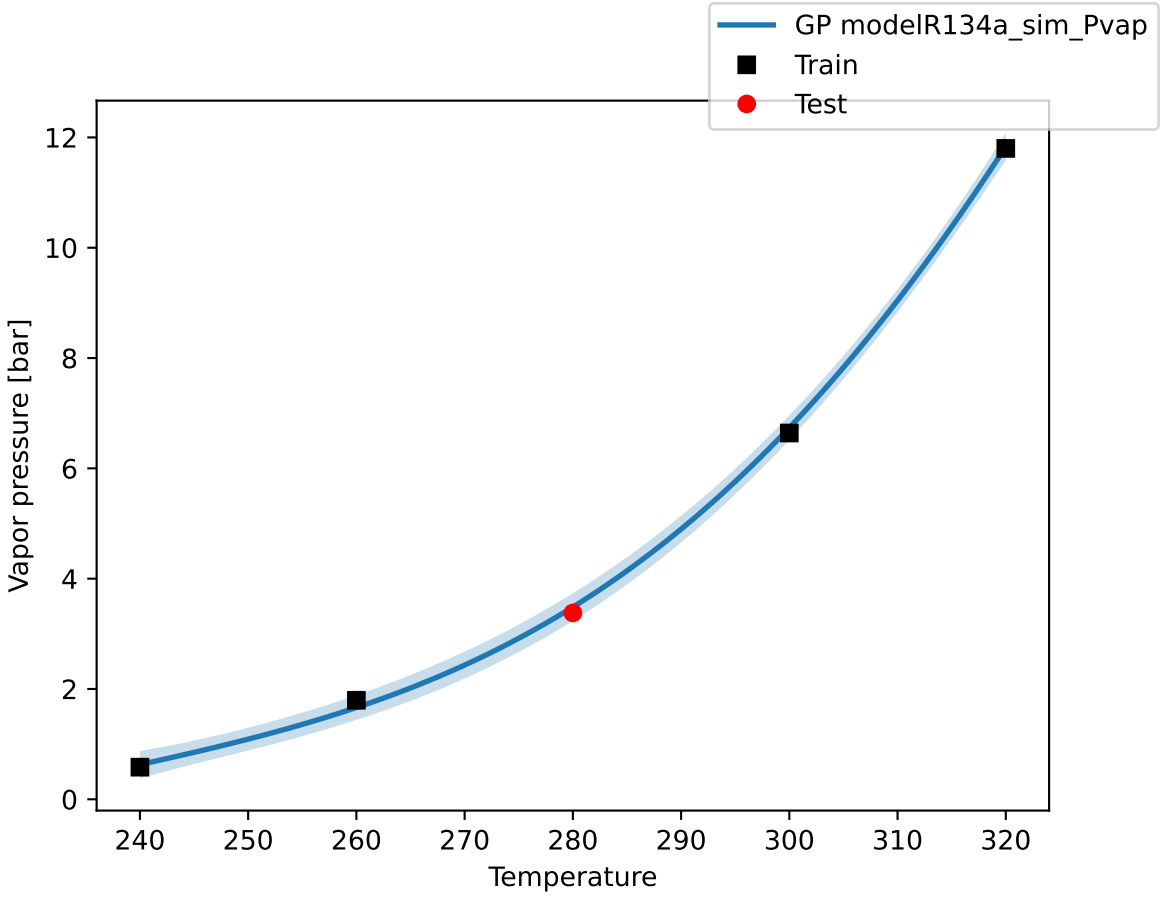
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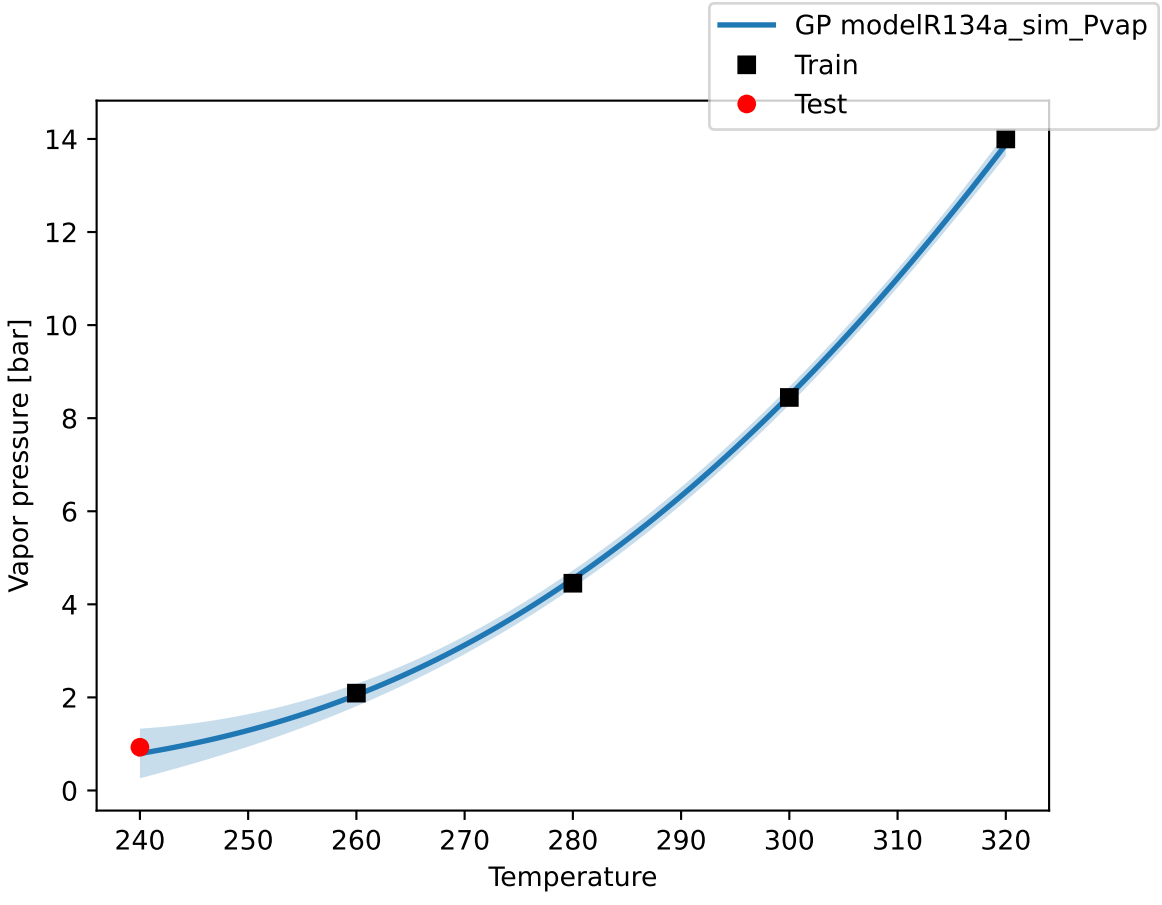
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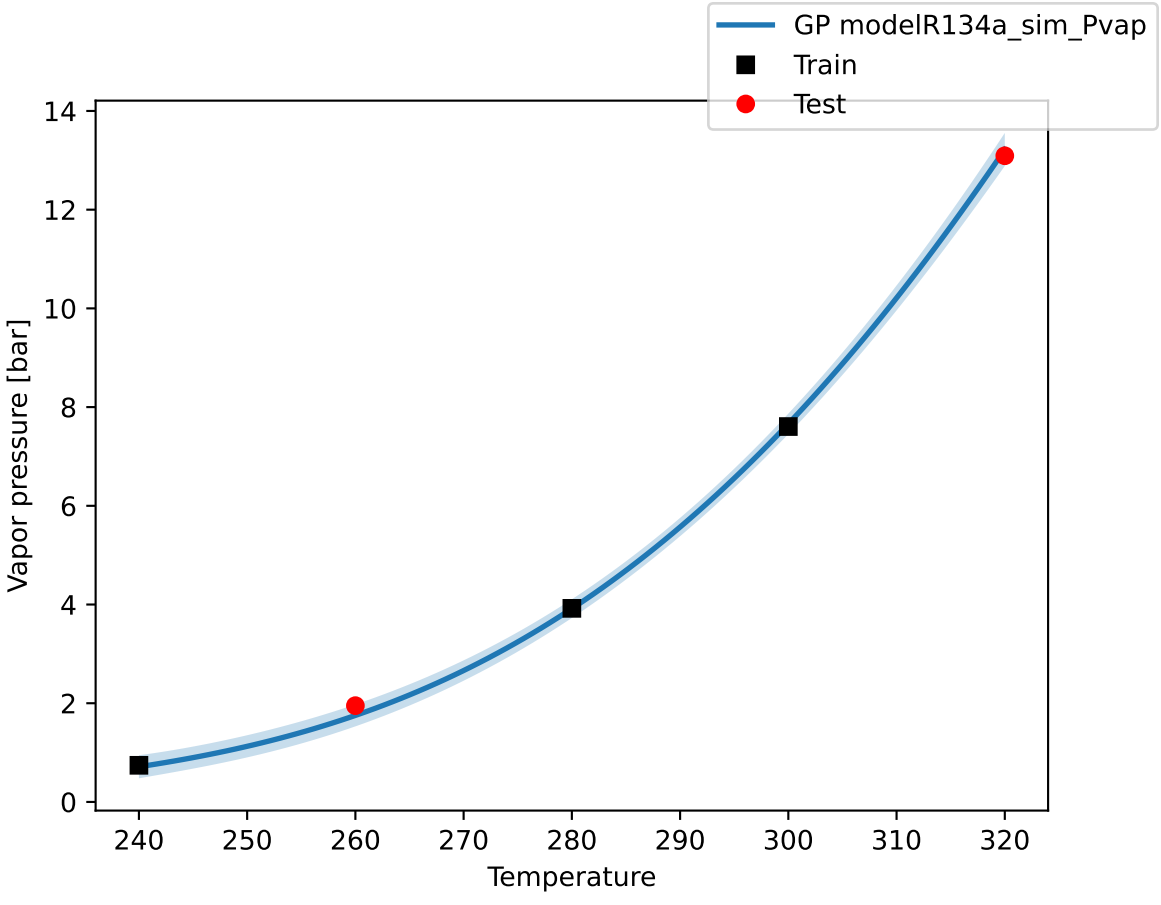
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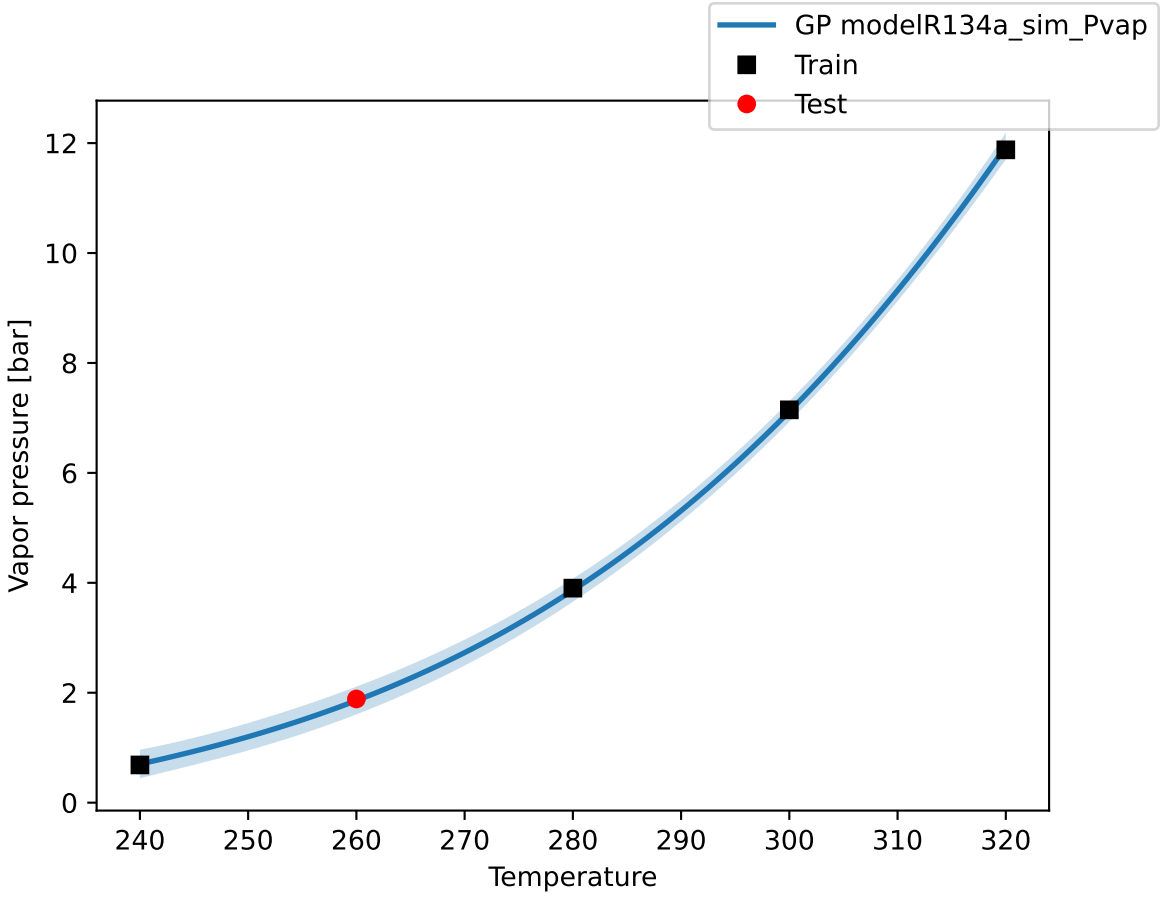
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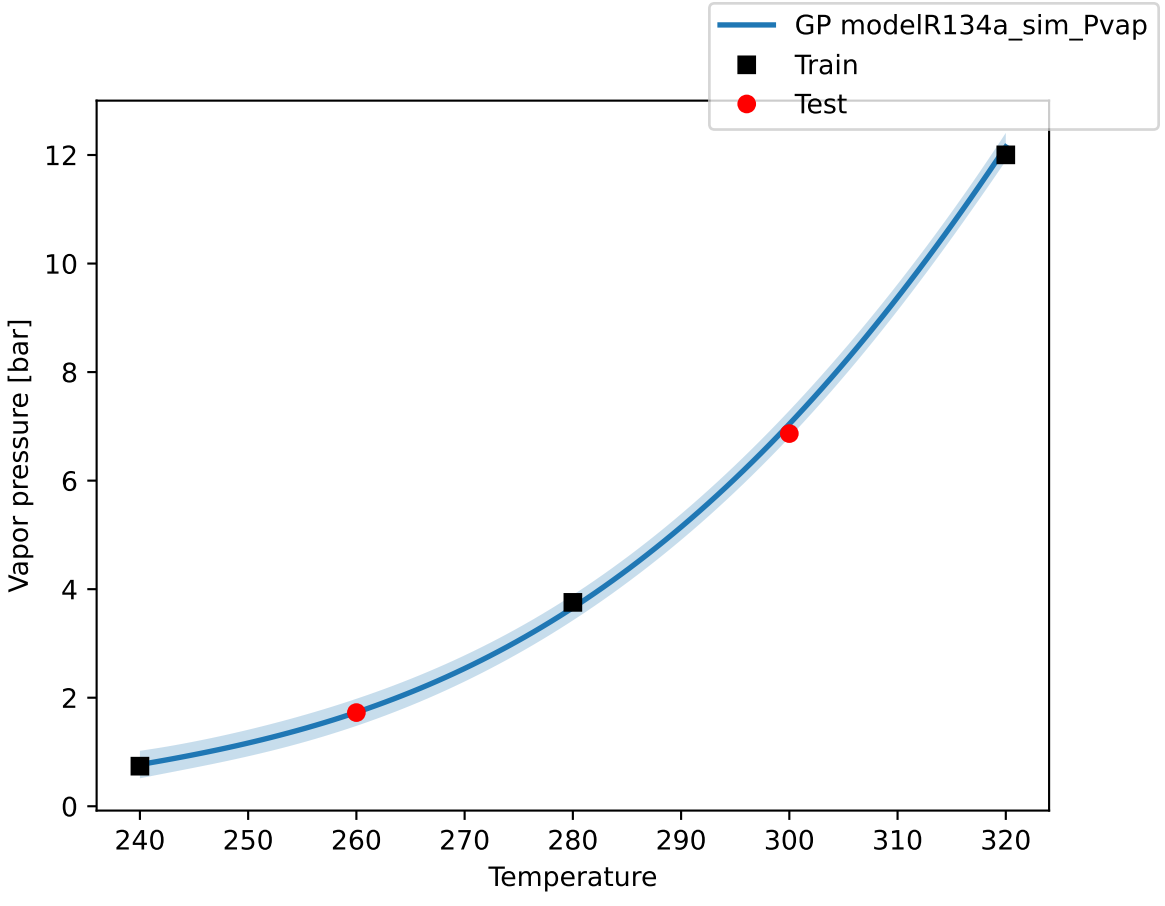
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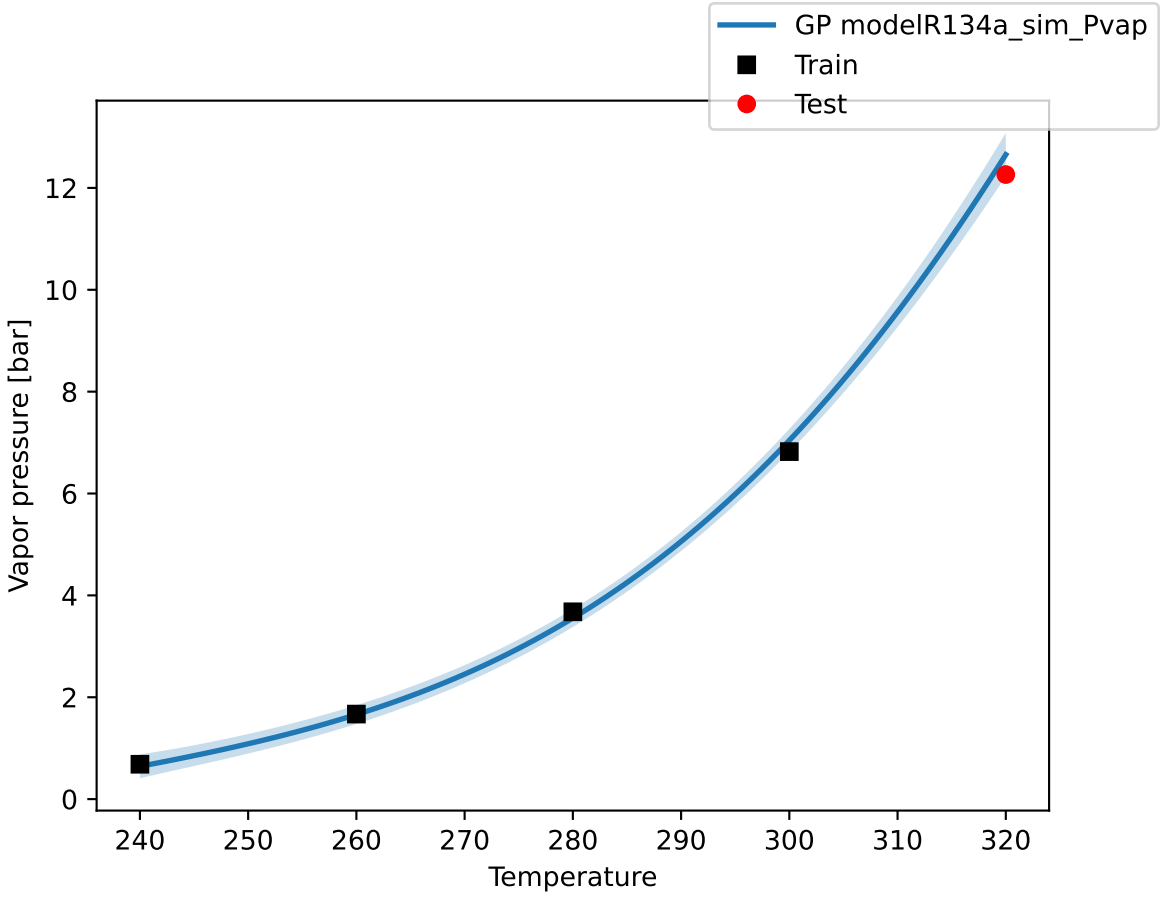
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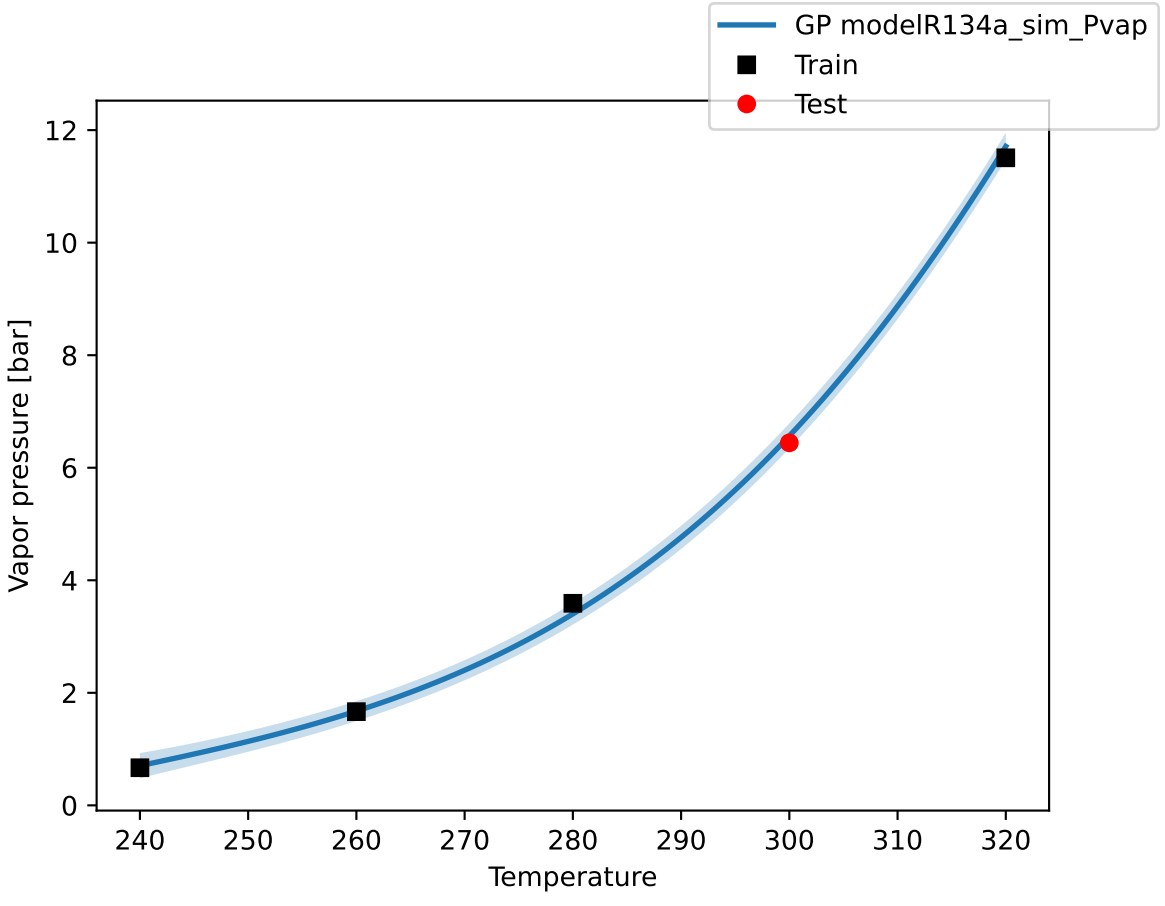
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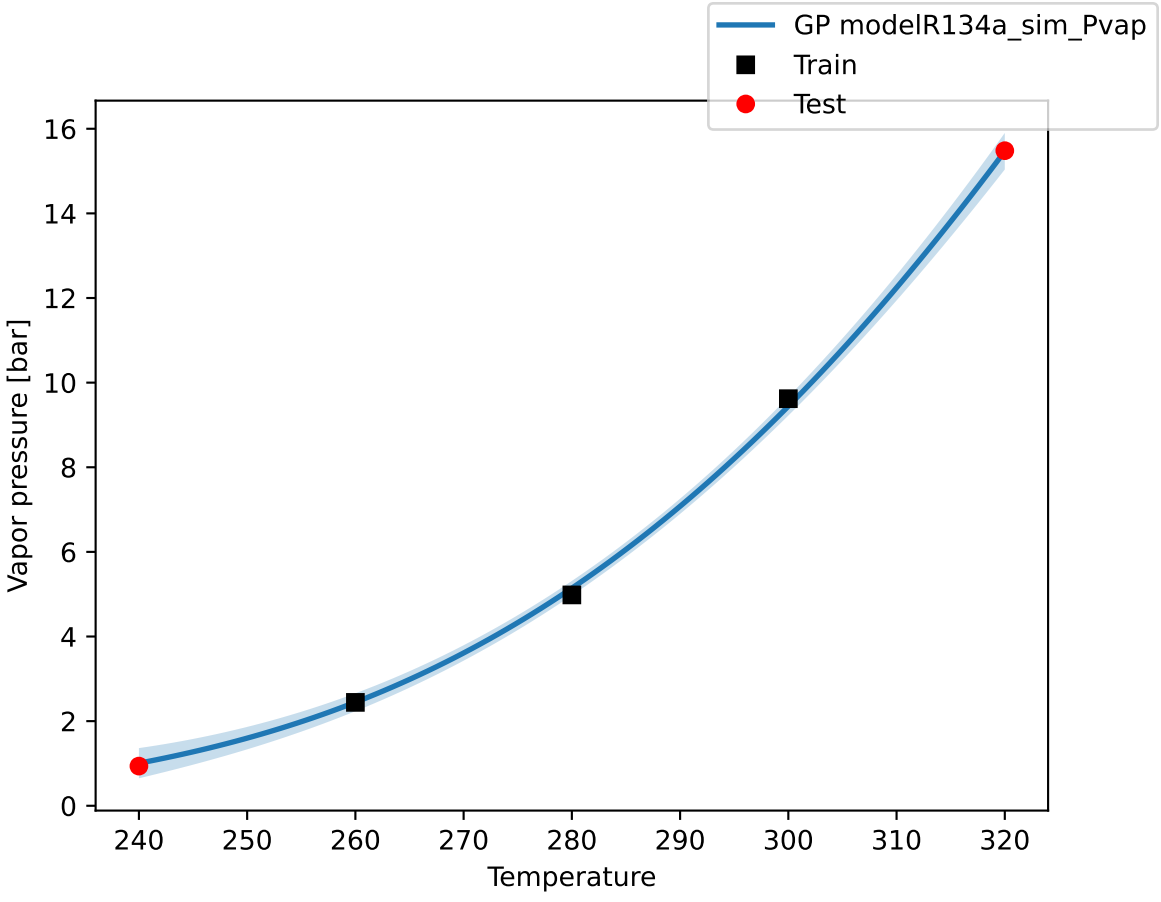
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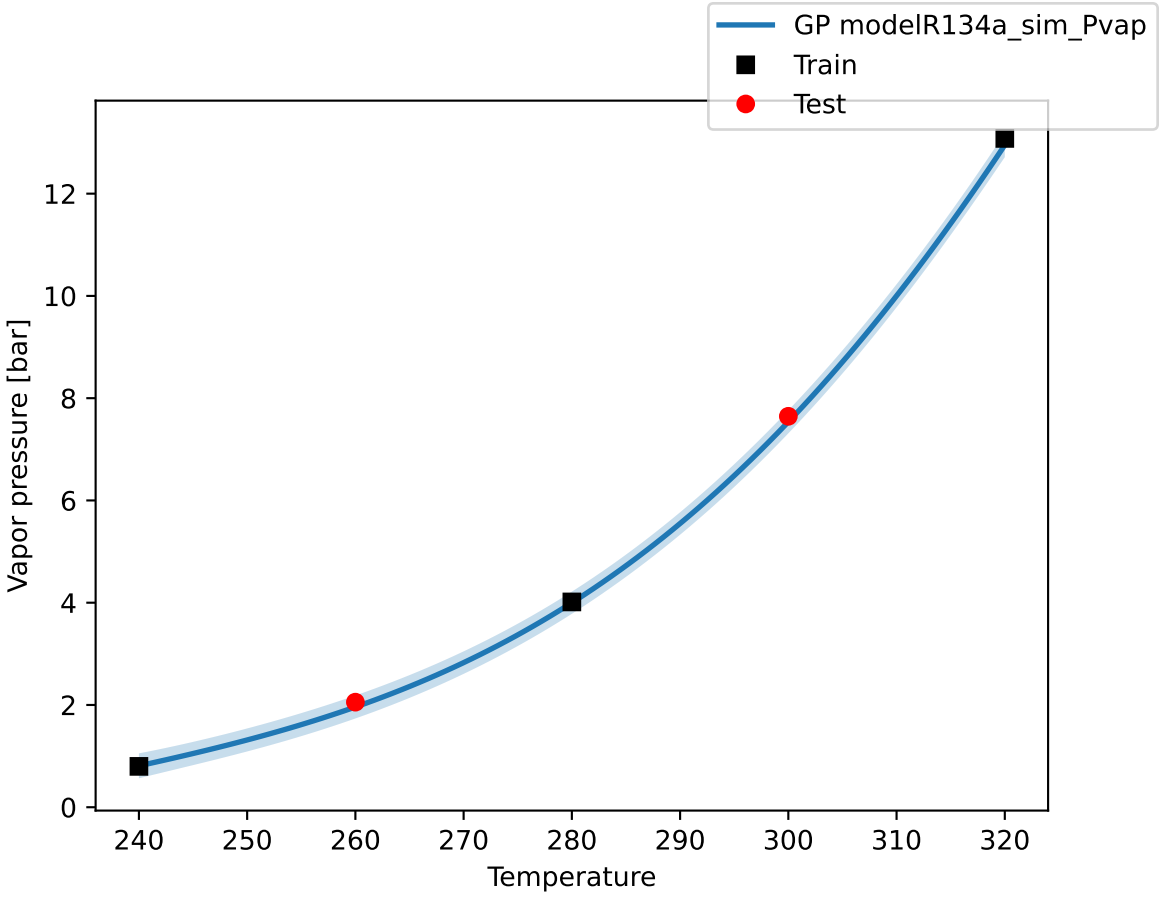
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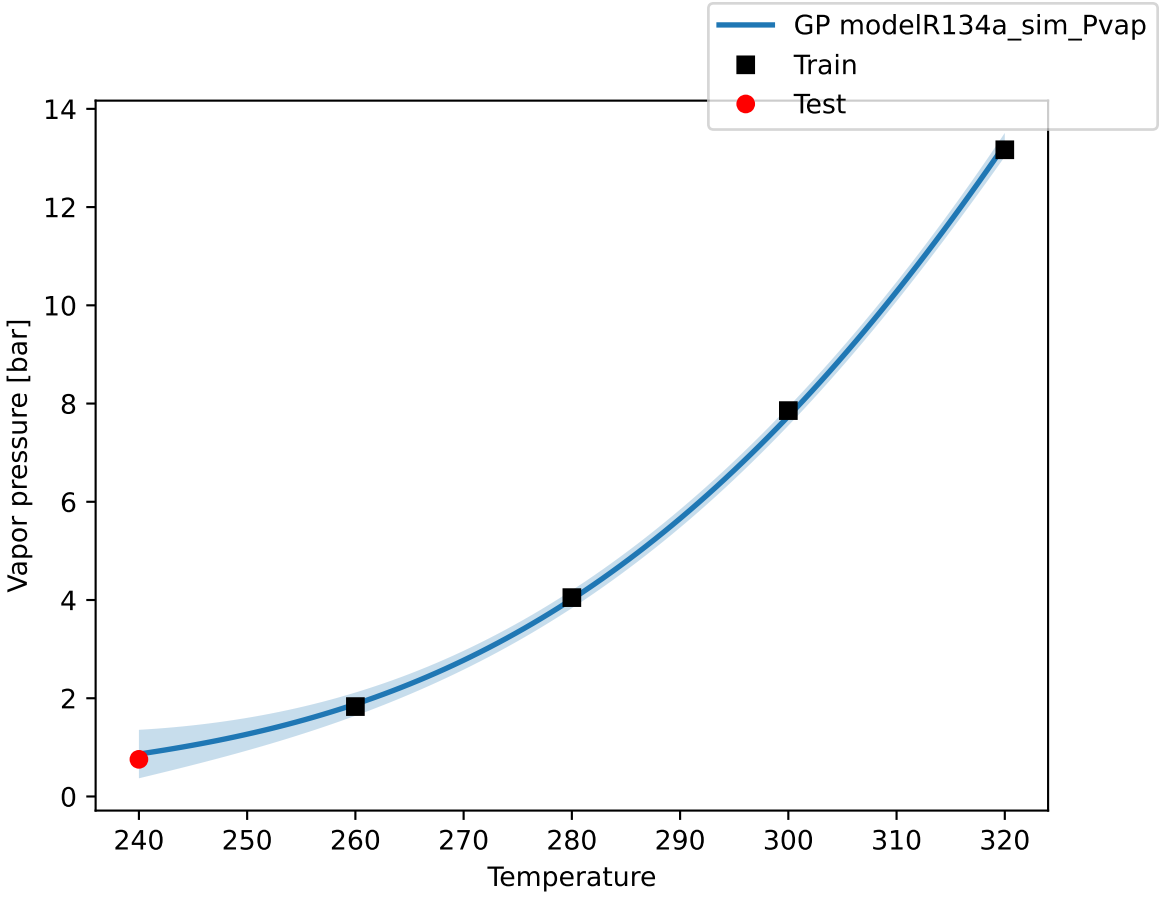
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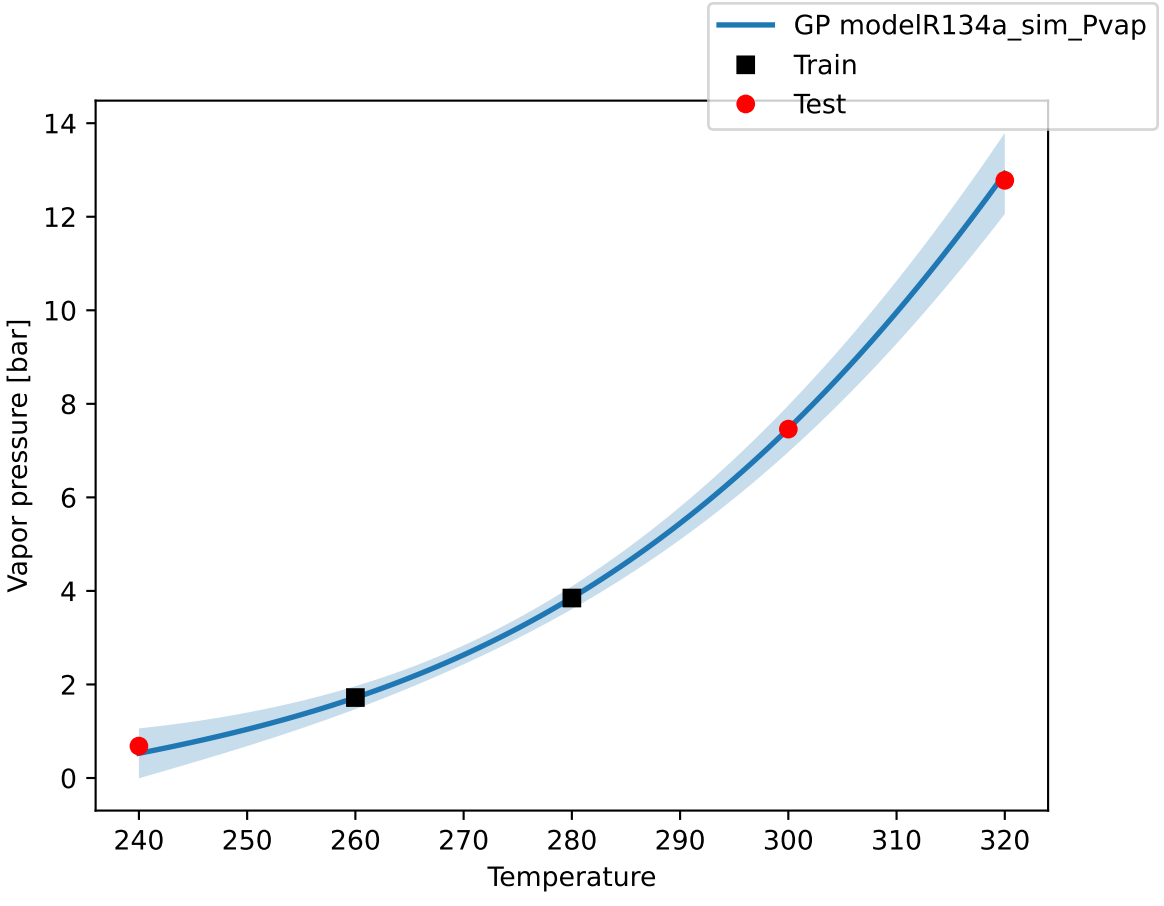
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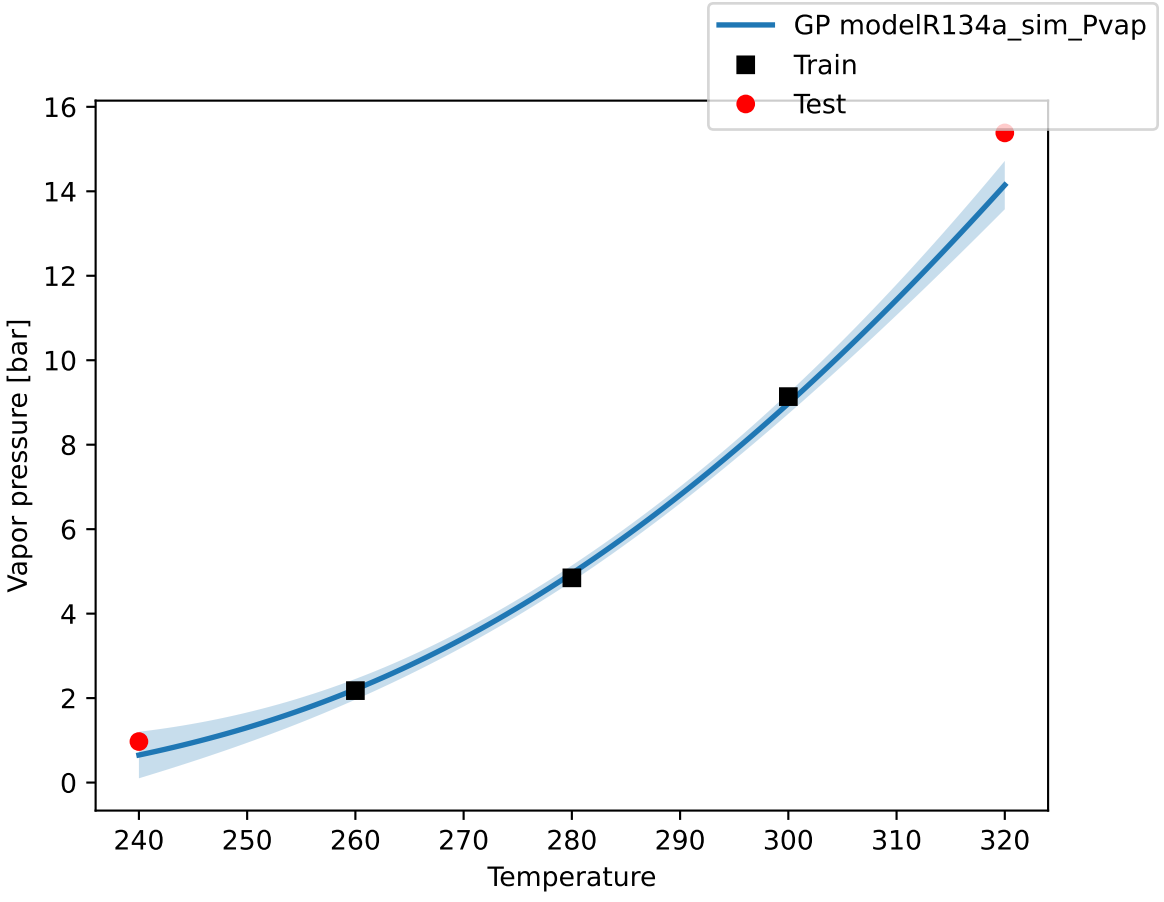
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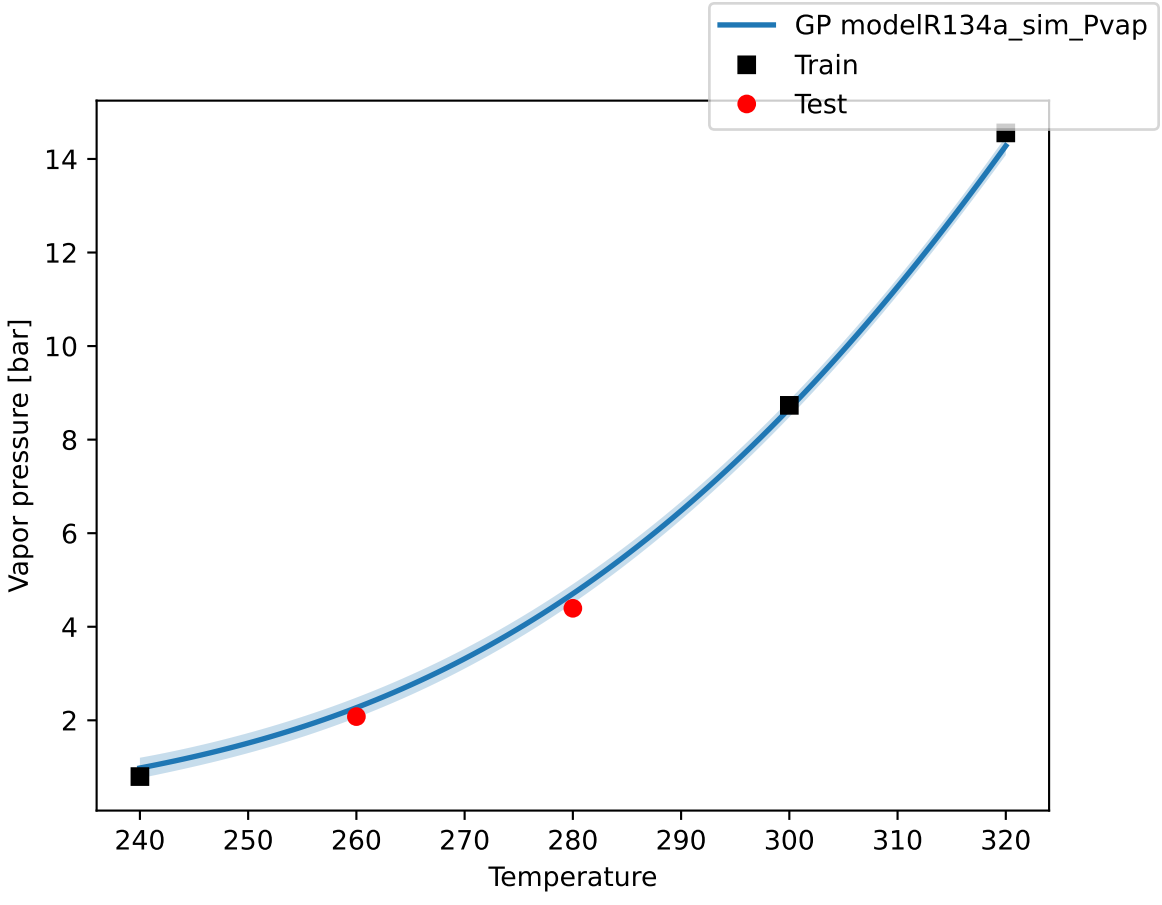
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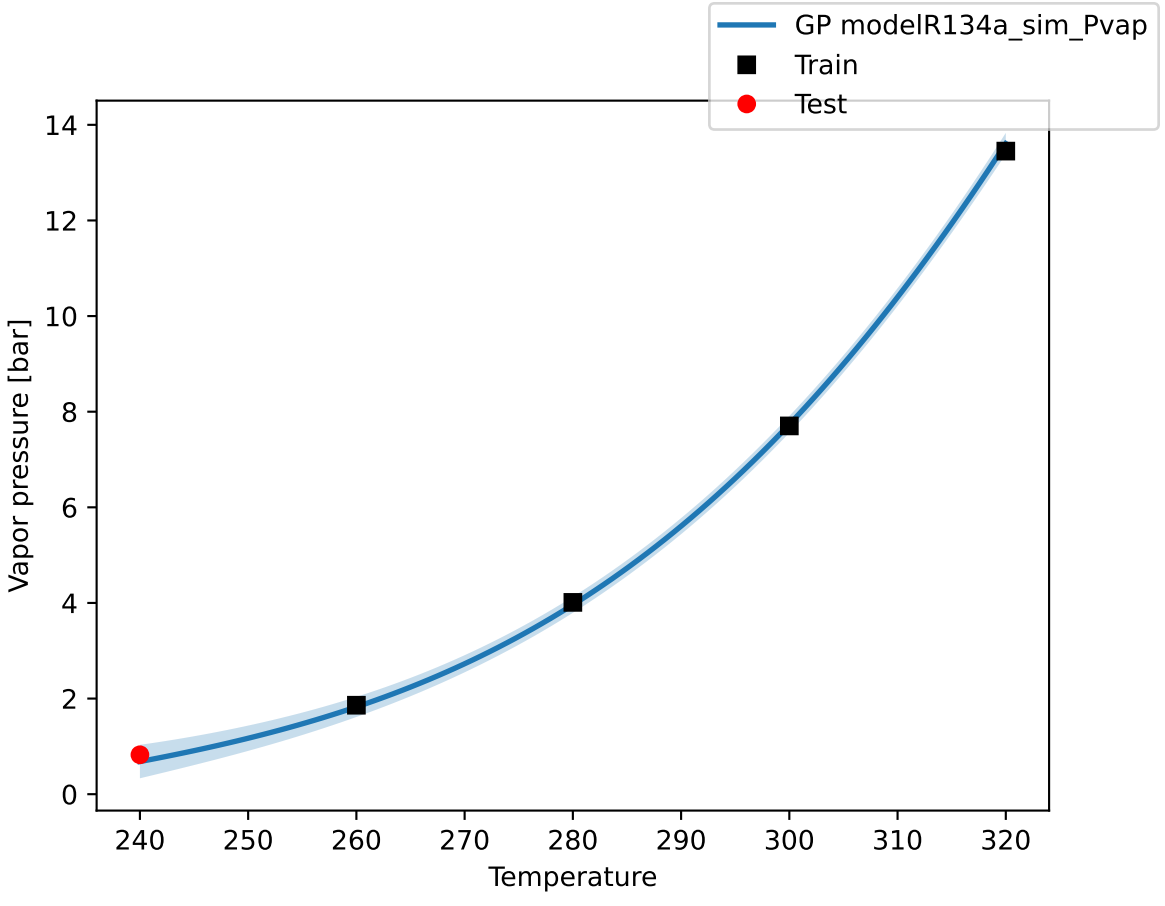
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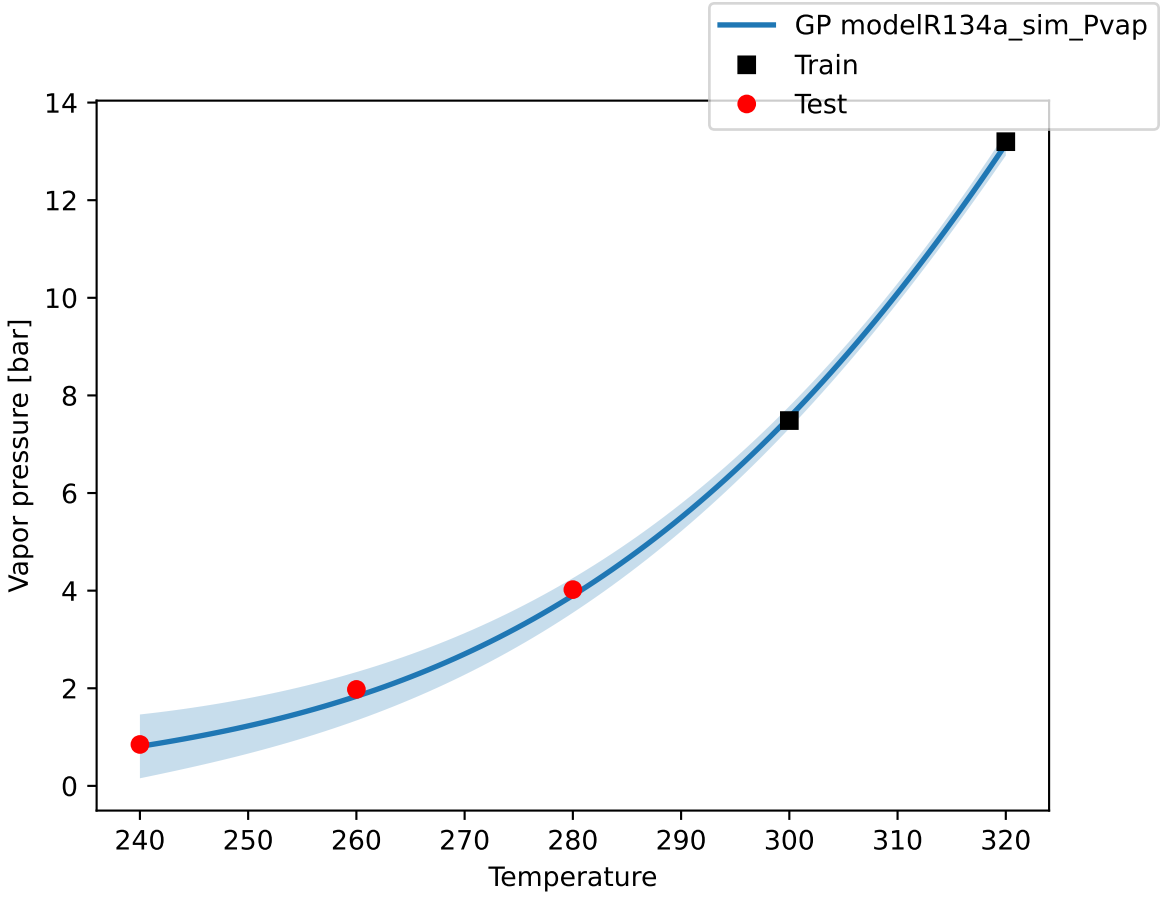
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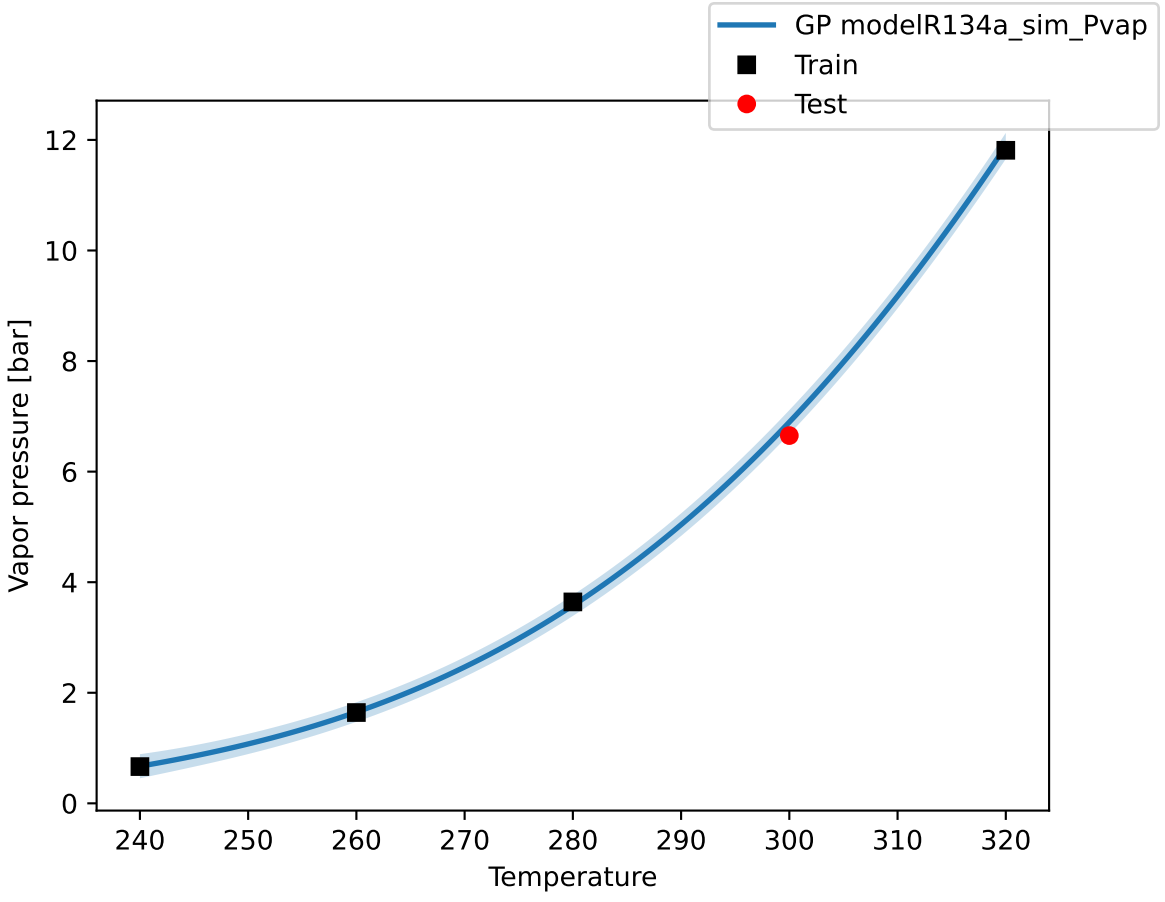
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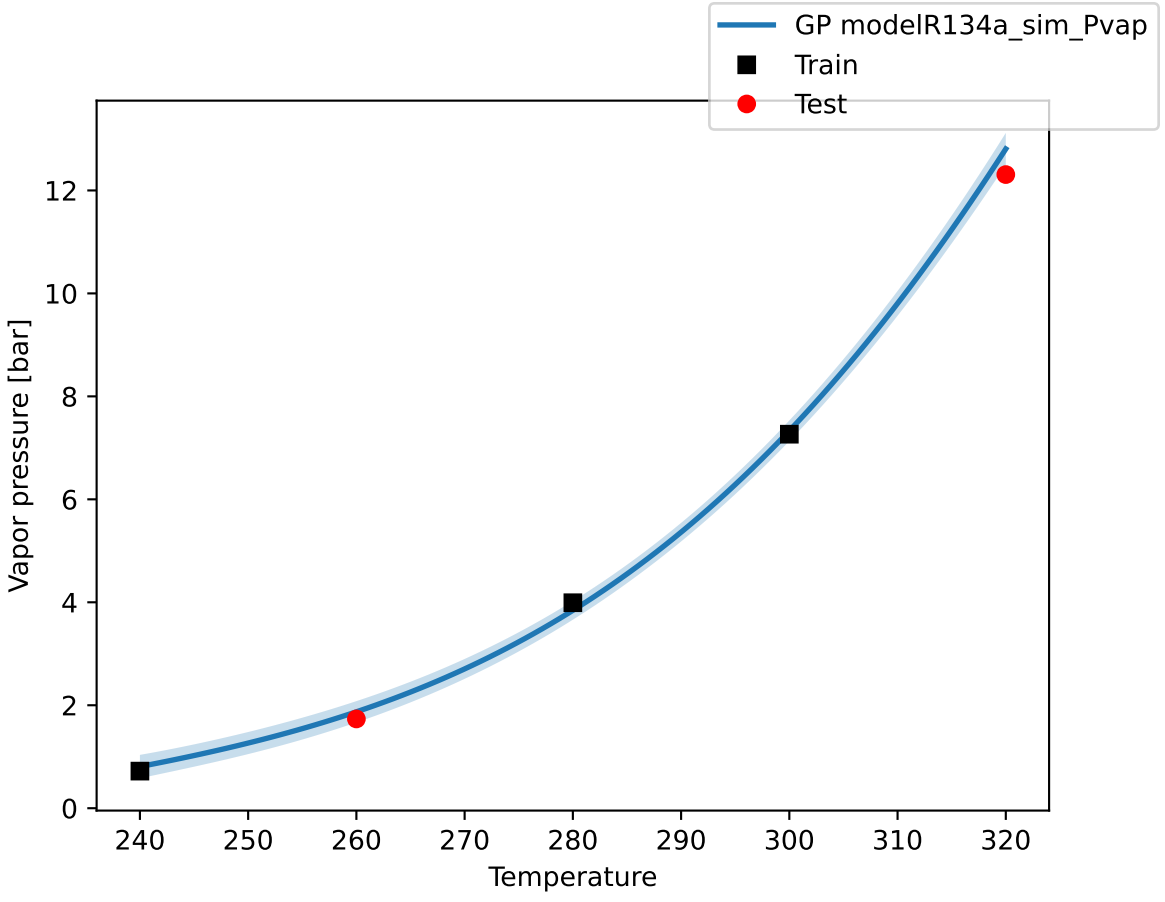
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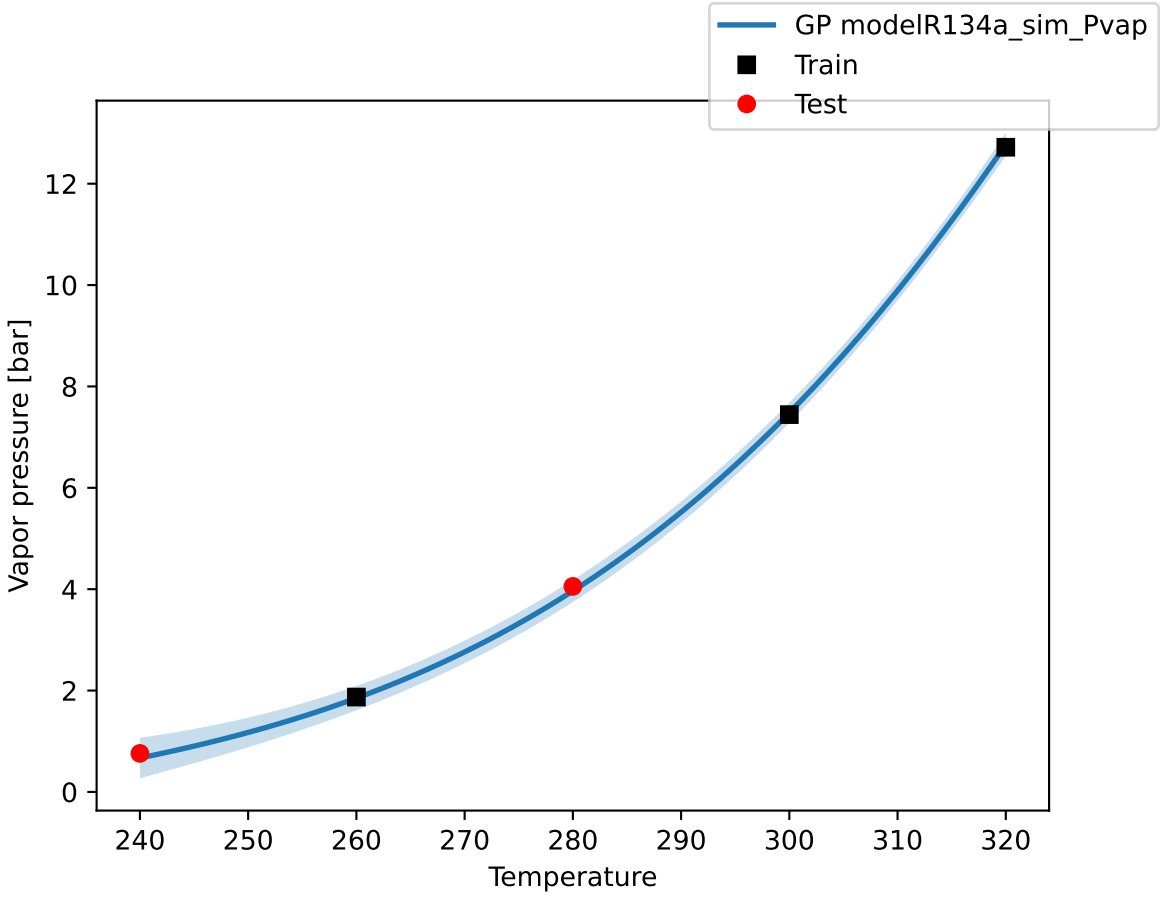
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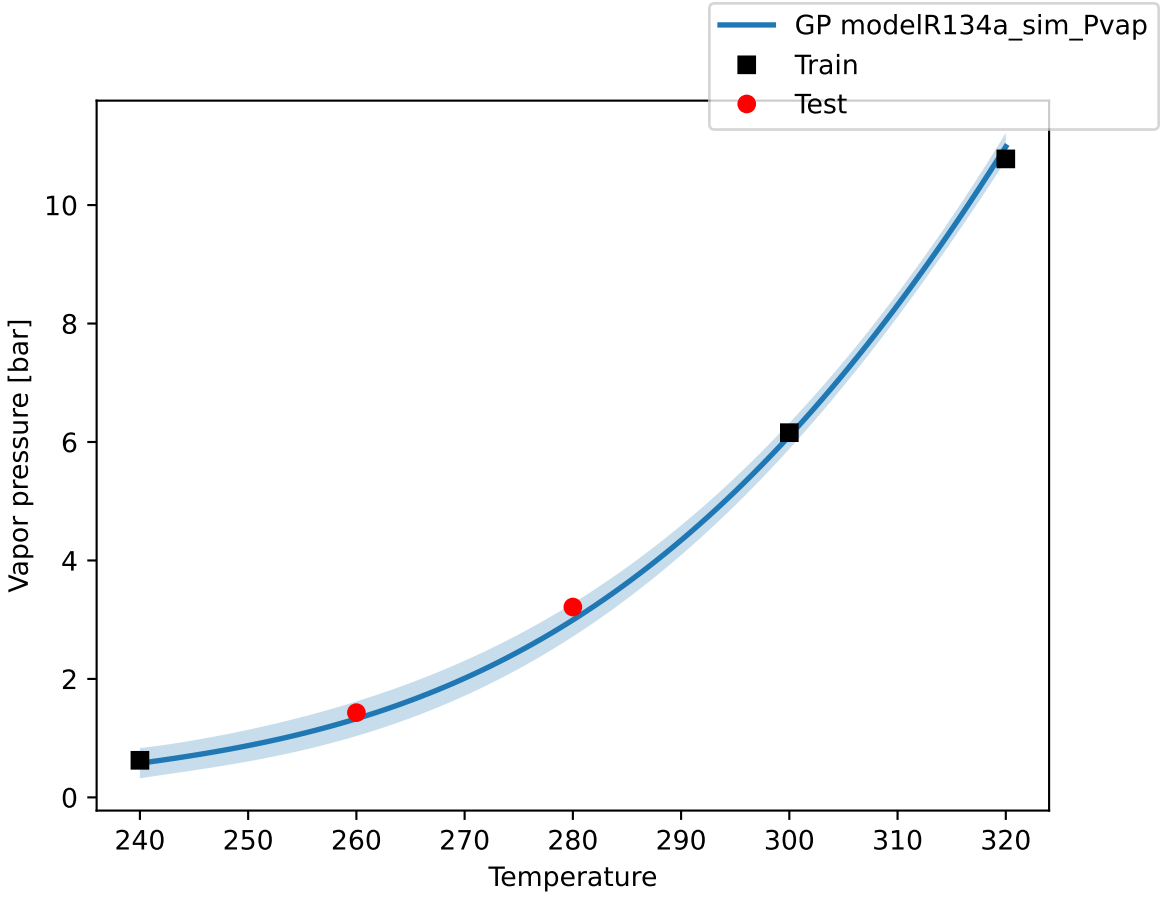
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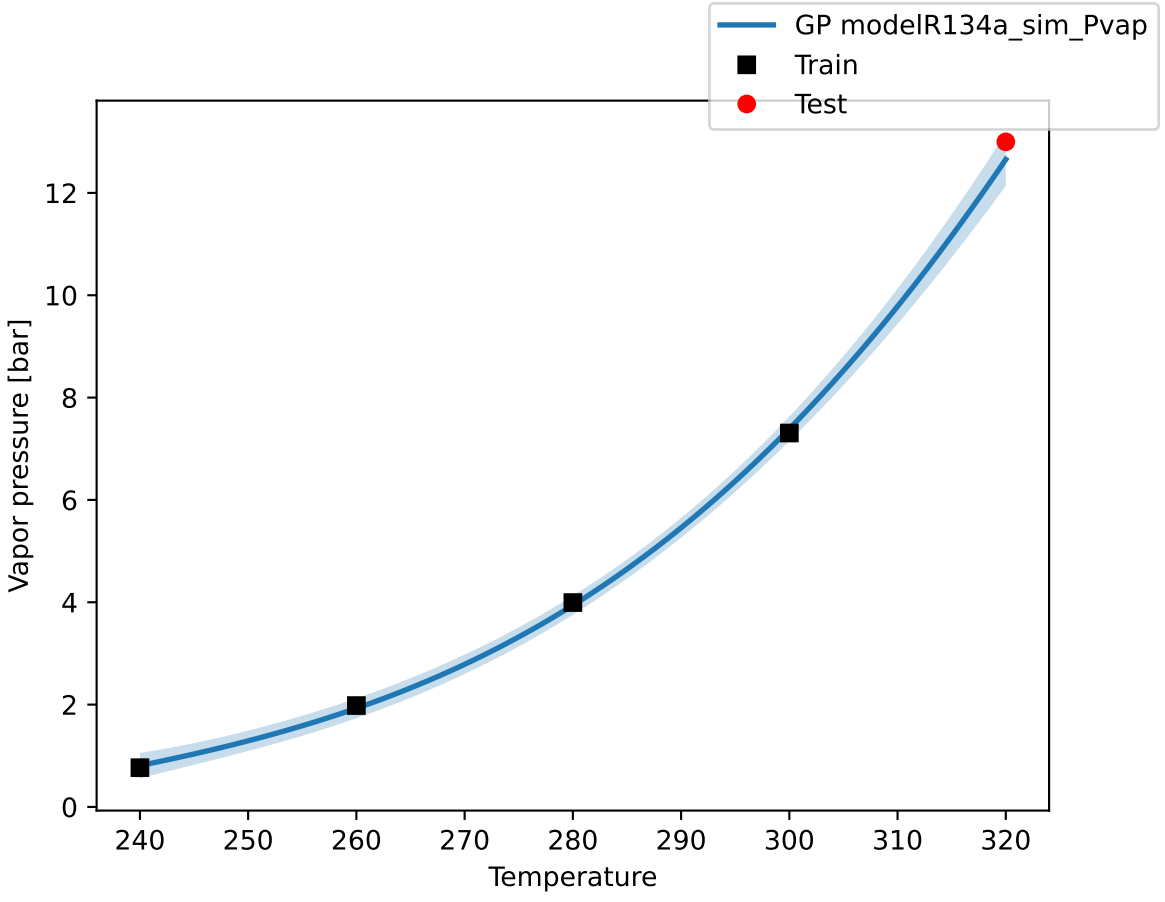
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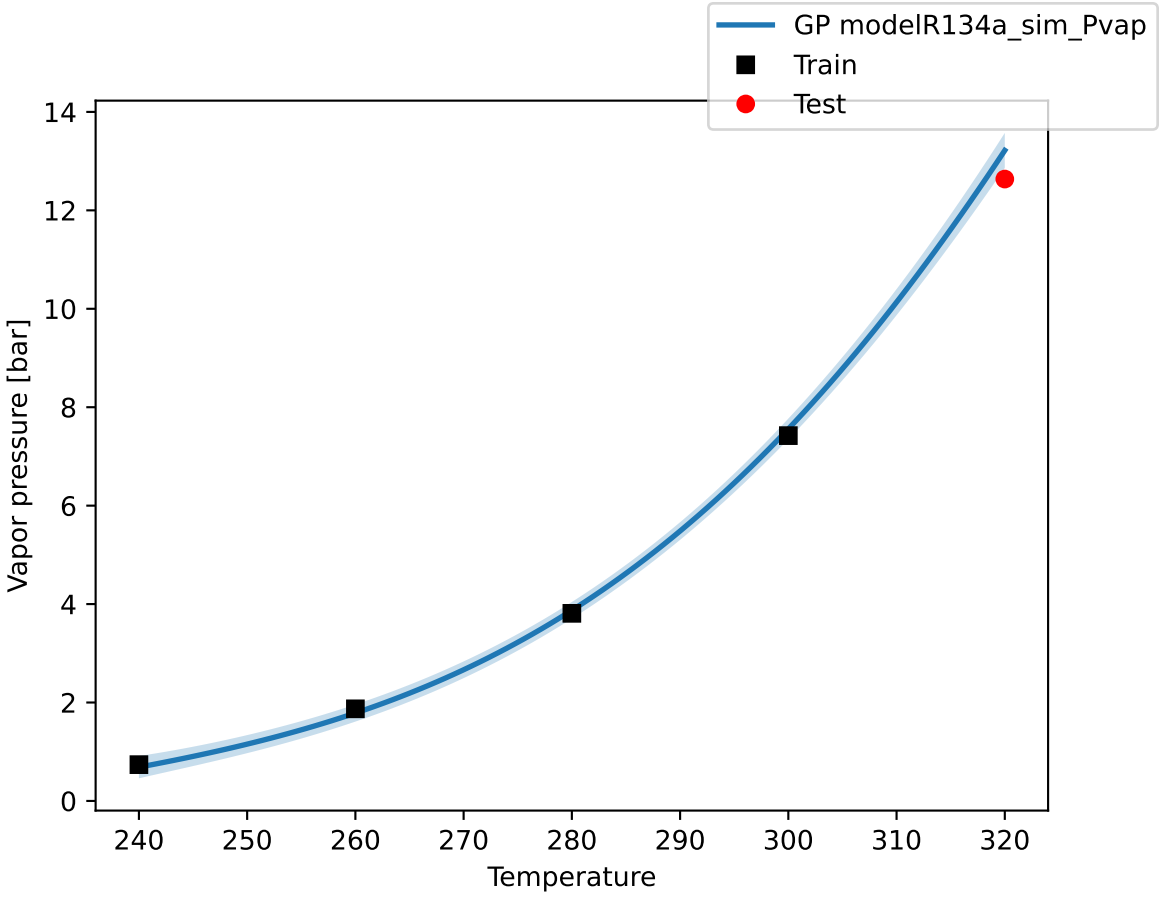
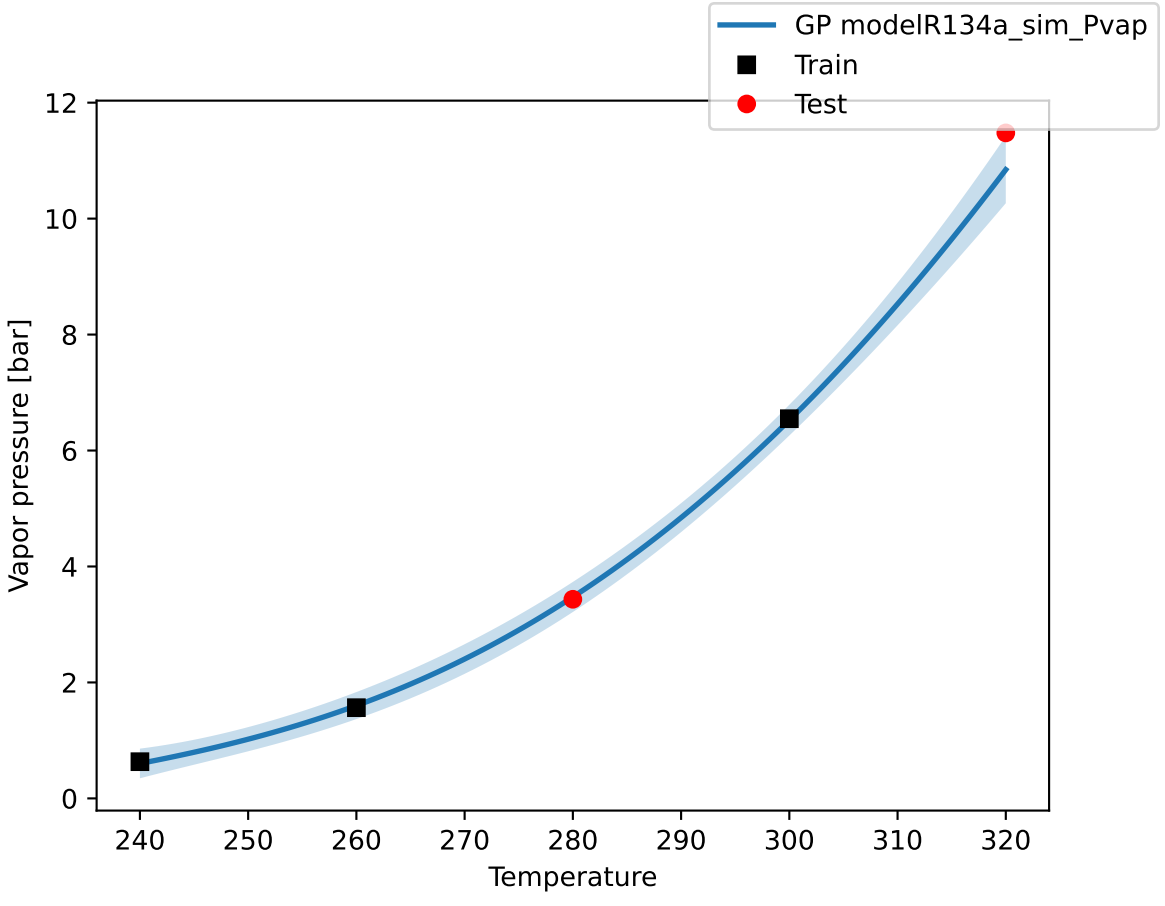
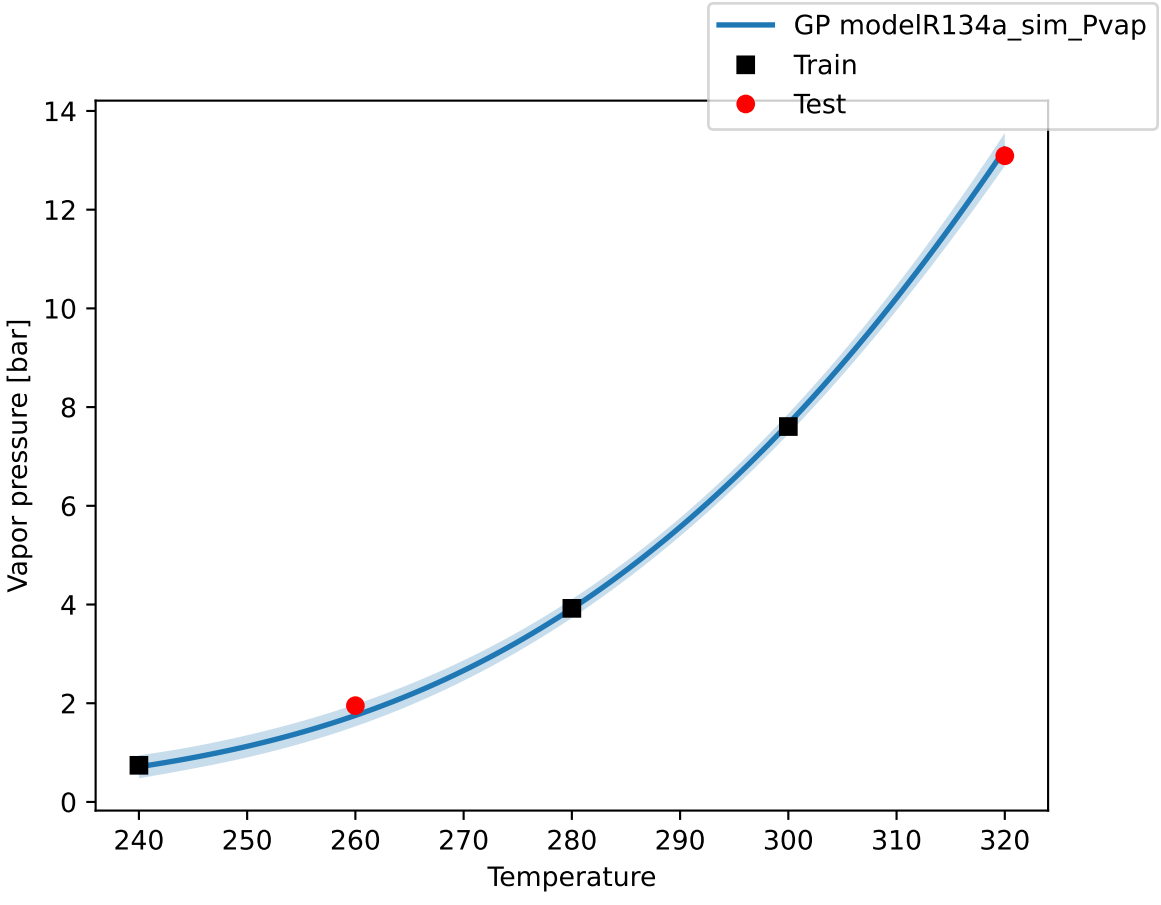
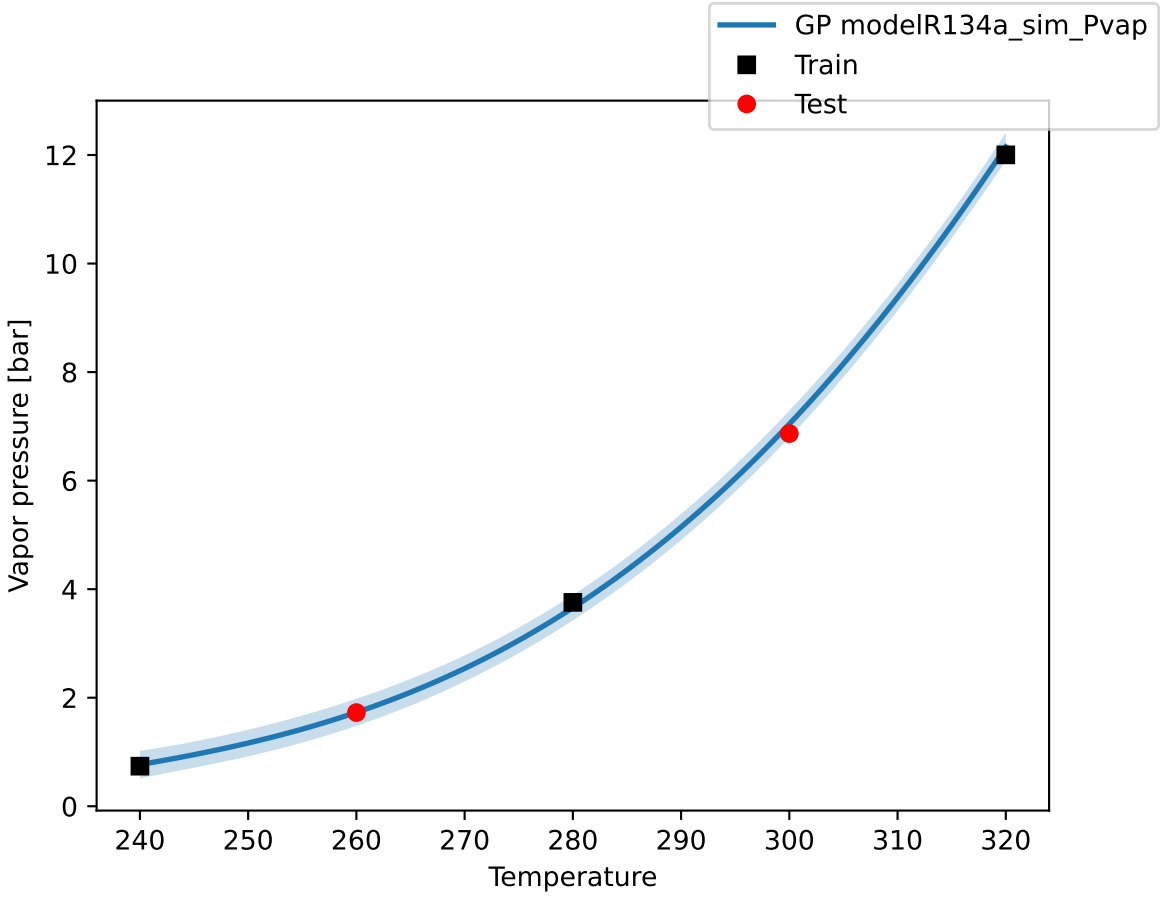
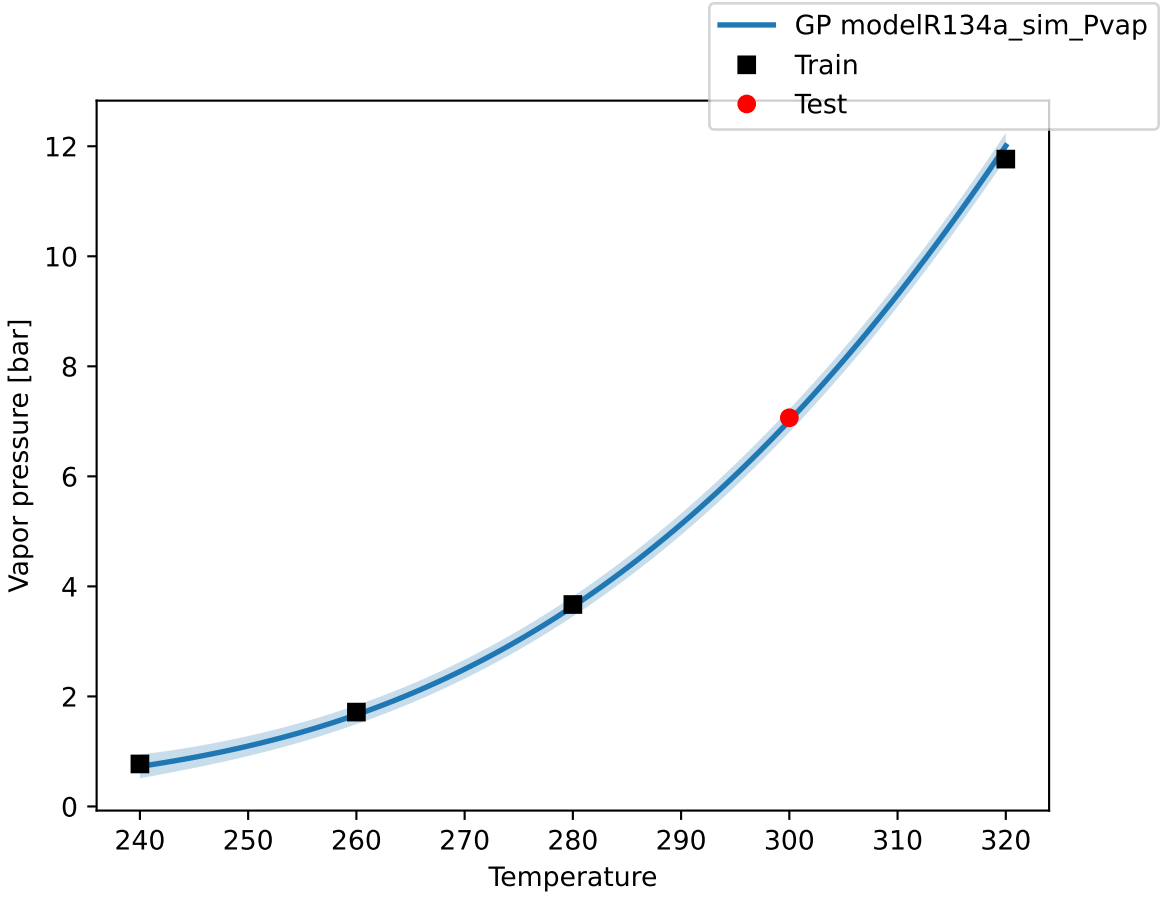
300
310
320
Temperature

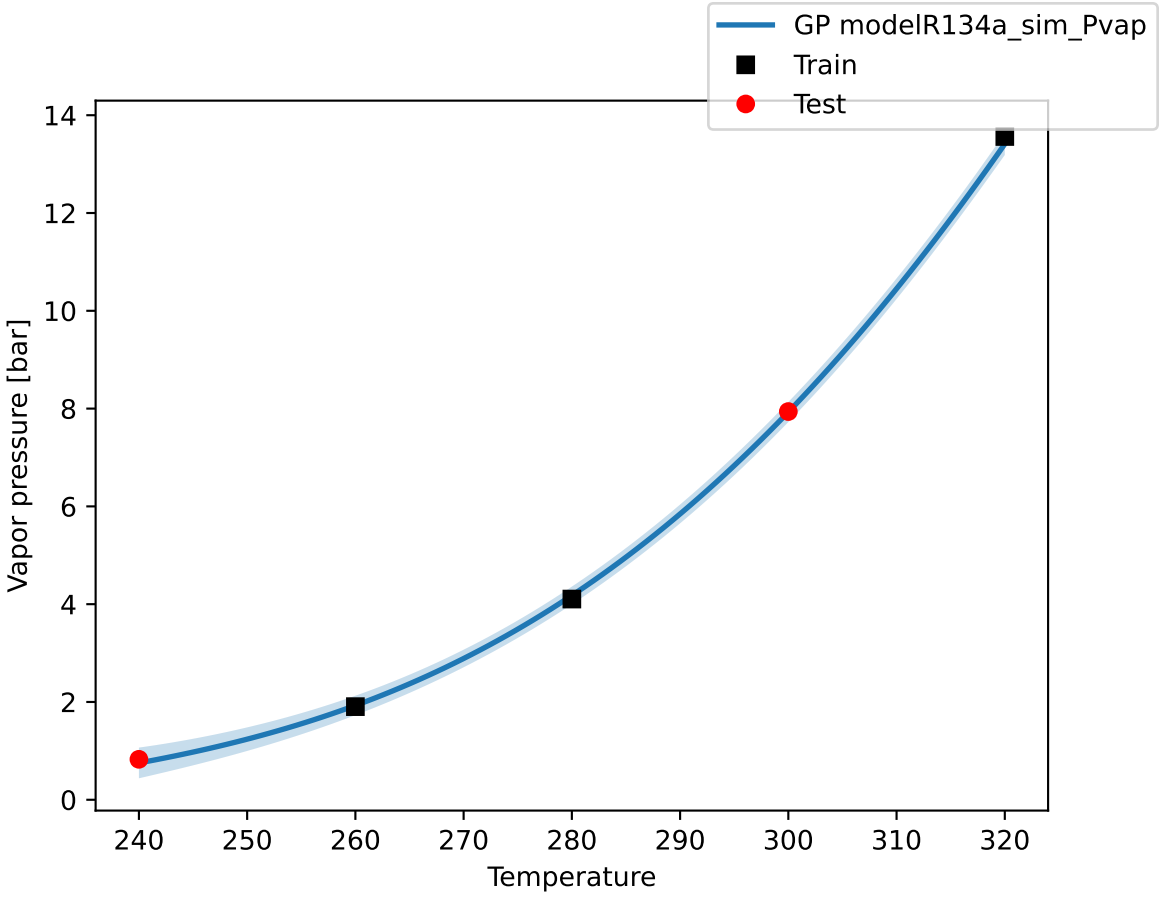

GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
14
240
250
260
270
280
290
300
310
320

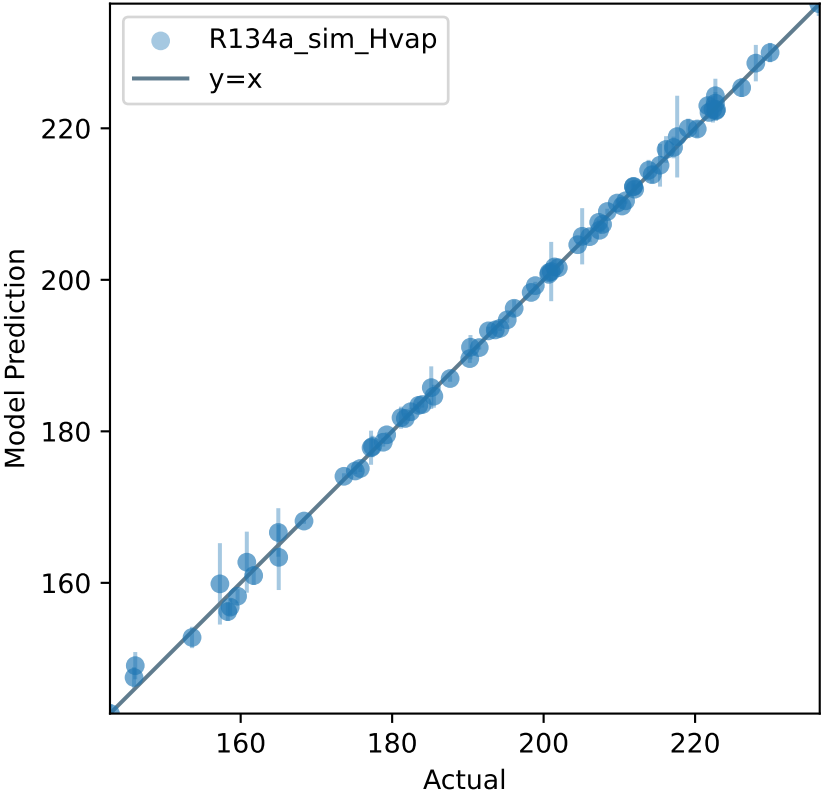

GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
240
250
260
270
280
290
300
310
320

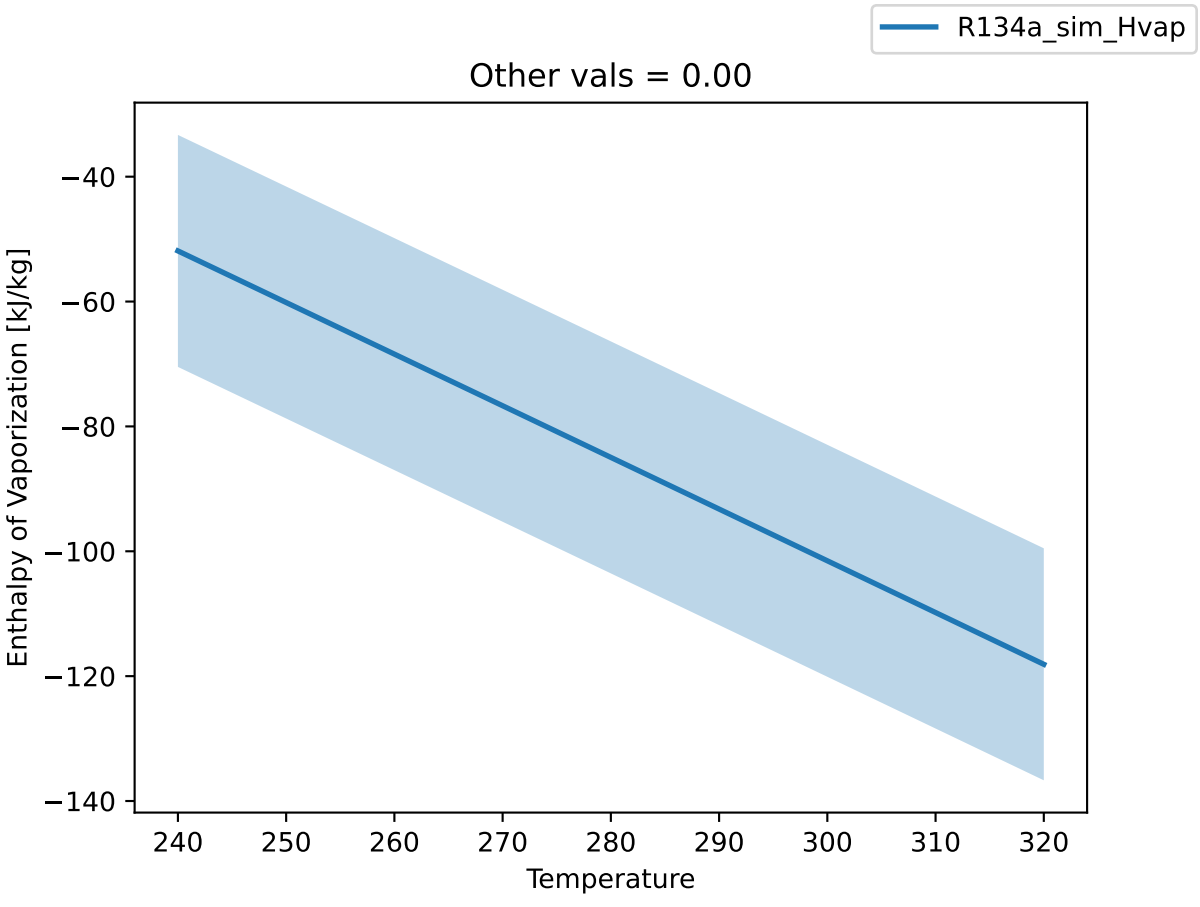

GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
14
240
250
260
270
280
290
300
310
320

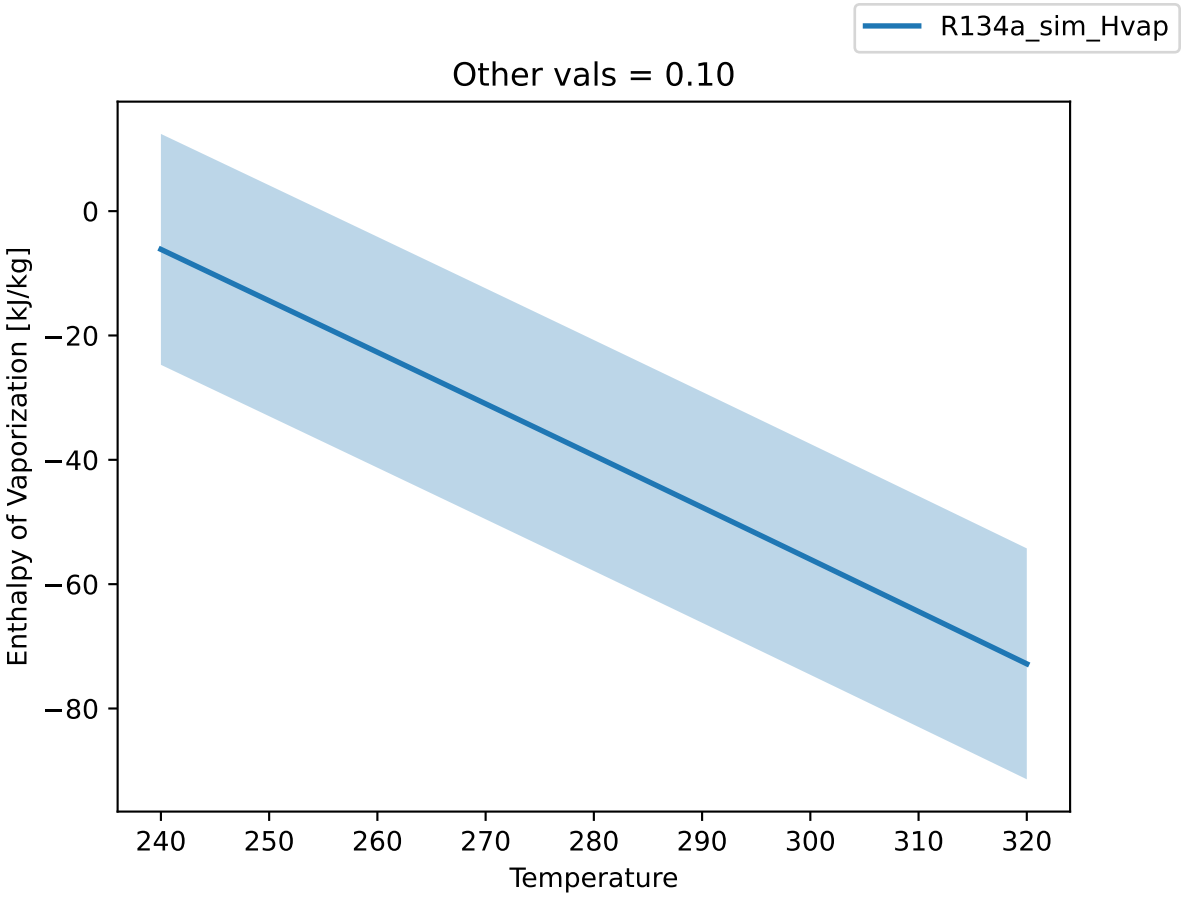

GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
240
250
260
270
280
290
300
310
320

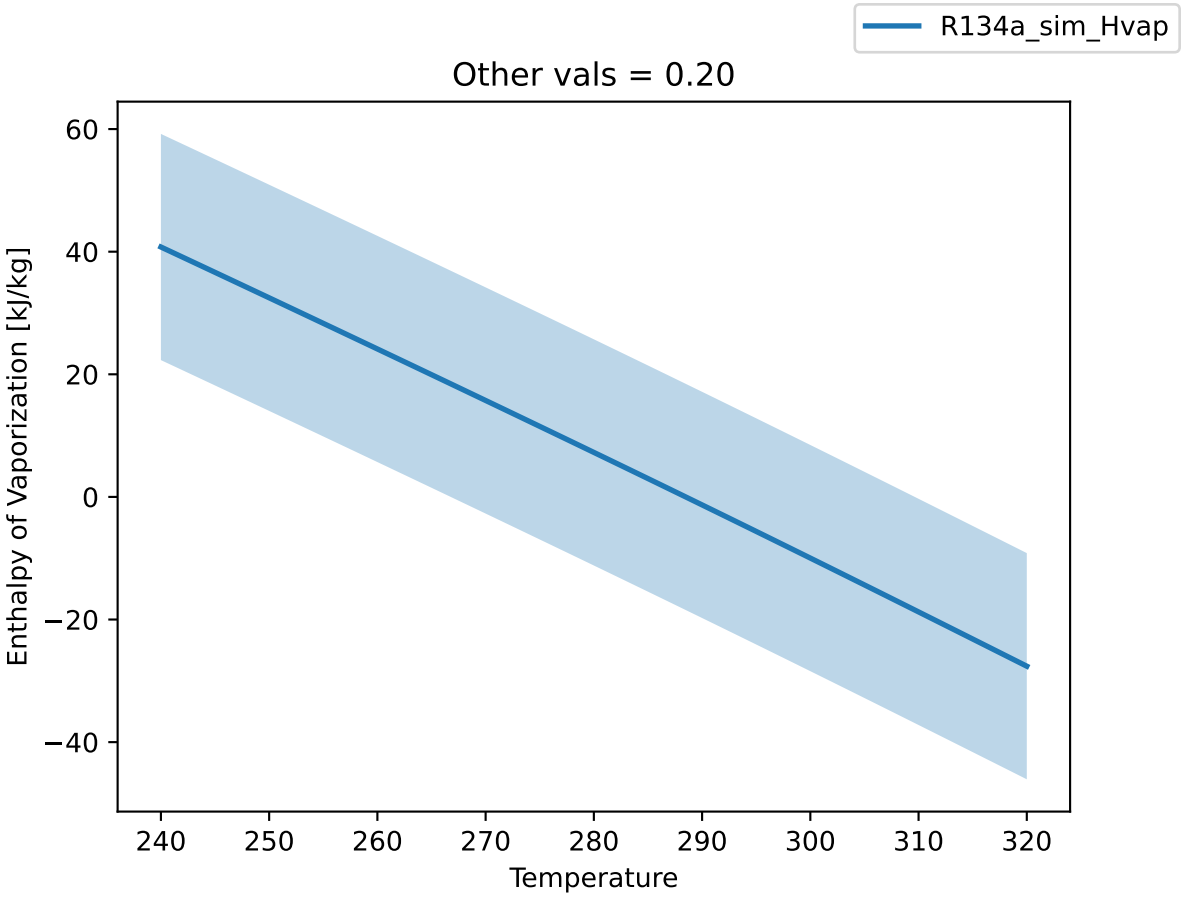

GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
240
250
260
270
280
290
300
310
320

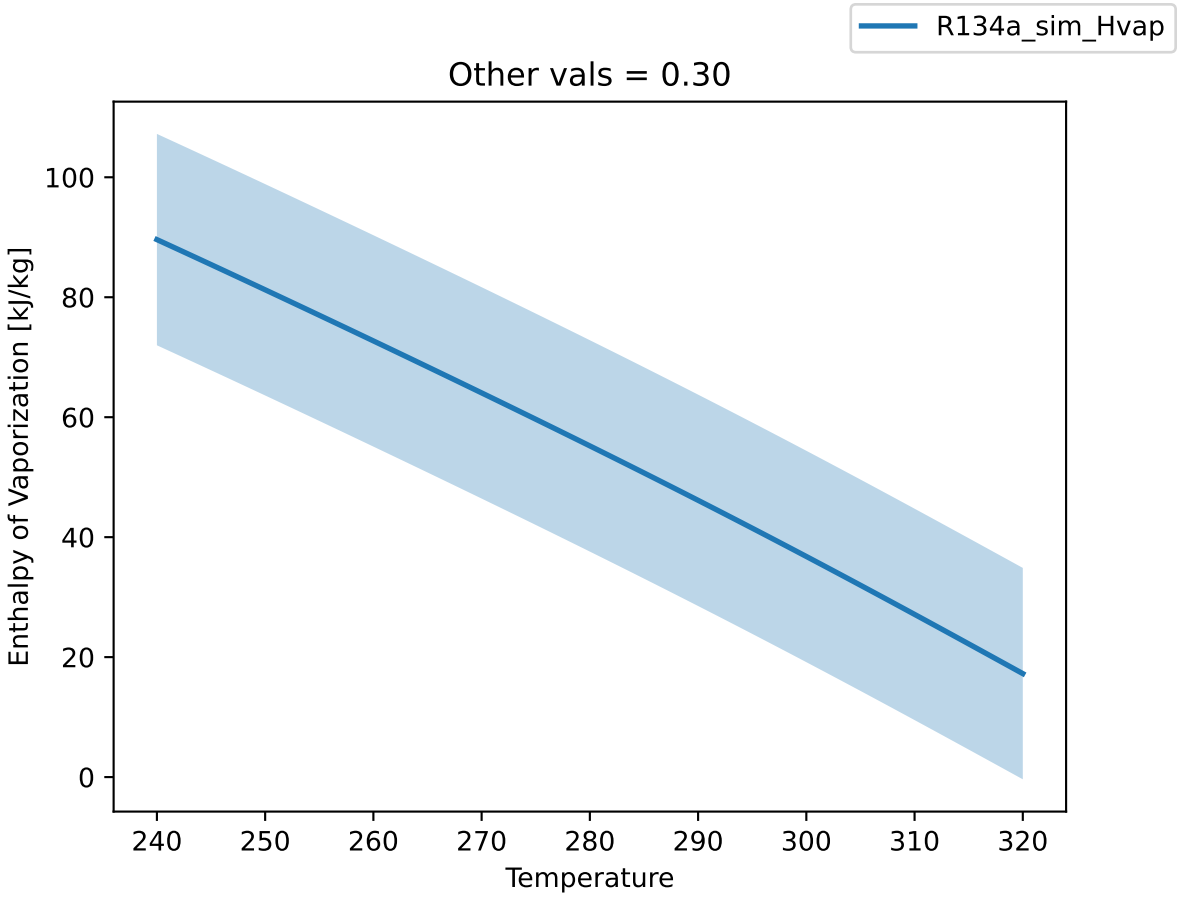

GP modelR134a_sim_Pvap
Train
Test
Vapor pressure [bar]
Temperature
0
2
4
6
8
10
12
14
240
250
260
270
280
290
300
310
320

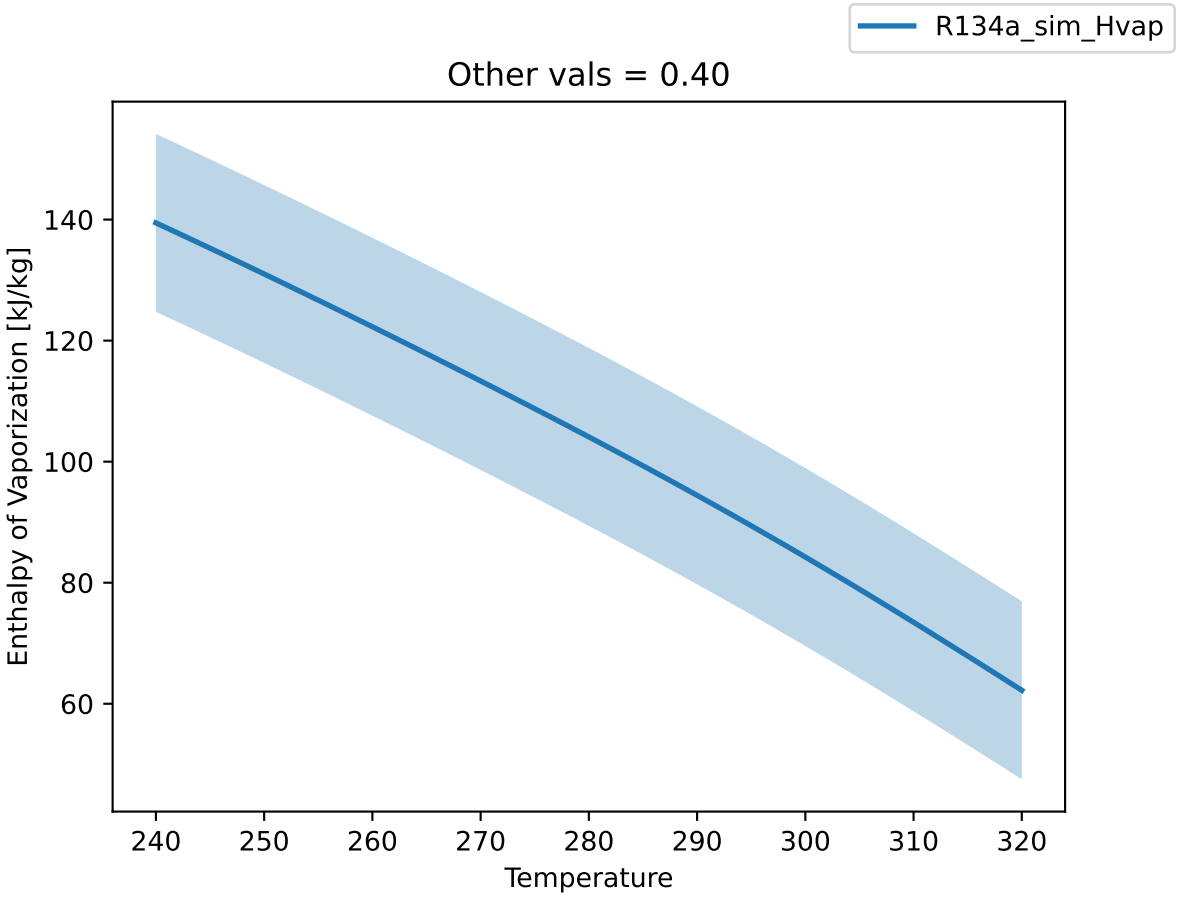

R134a_sim_Hvap
y=x
Model Prediction
Actual
160
180
200
220
160
180
200
220

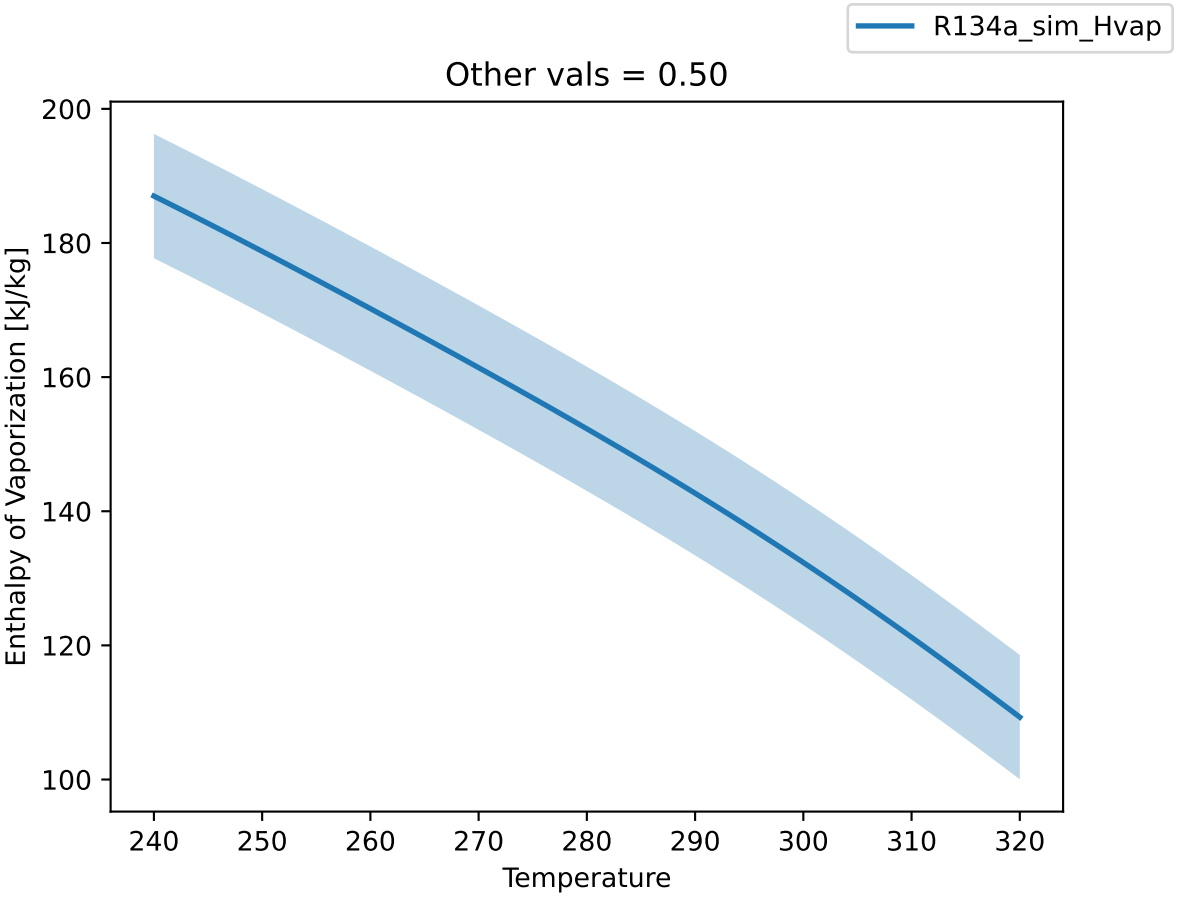

R134a_sim_Hvap
Other vals = 0.00
Enthalpy of Vaporization [kJ/kg]
−40
−60
−80
−100
−120
−140
240
250
260
270
280
290
300
310
320
Temperature

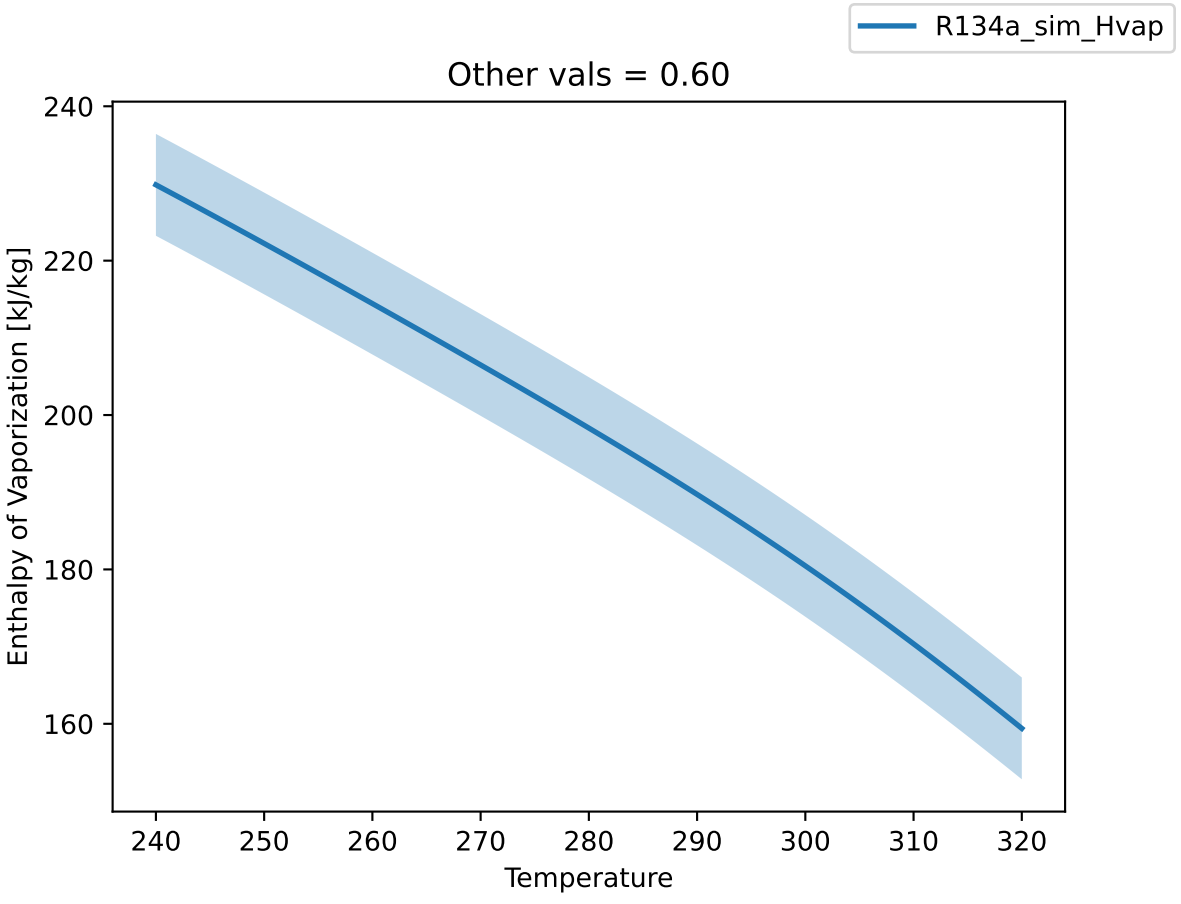

R134a_sim_Hvap
Other vals = 0.10
Enthalpy of Vaporization [kJ/kg]
0
−20
−40
−60
−80
240
250
260
270
280
290
300
310
320
Temperature

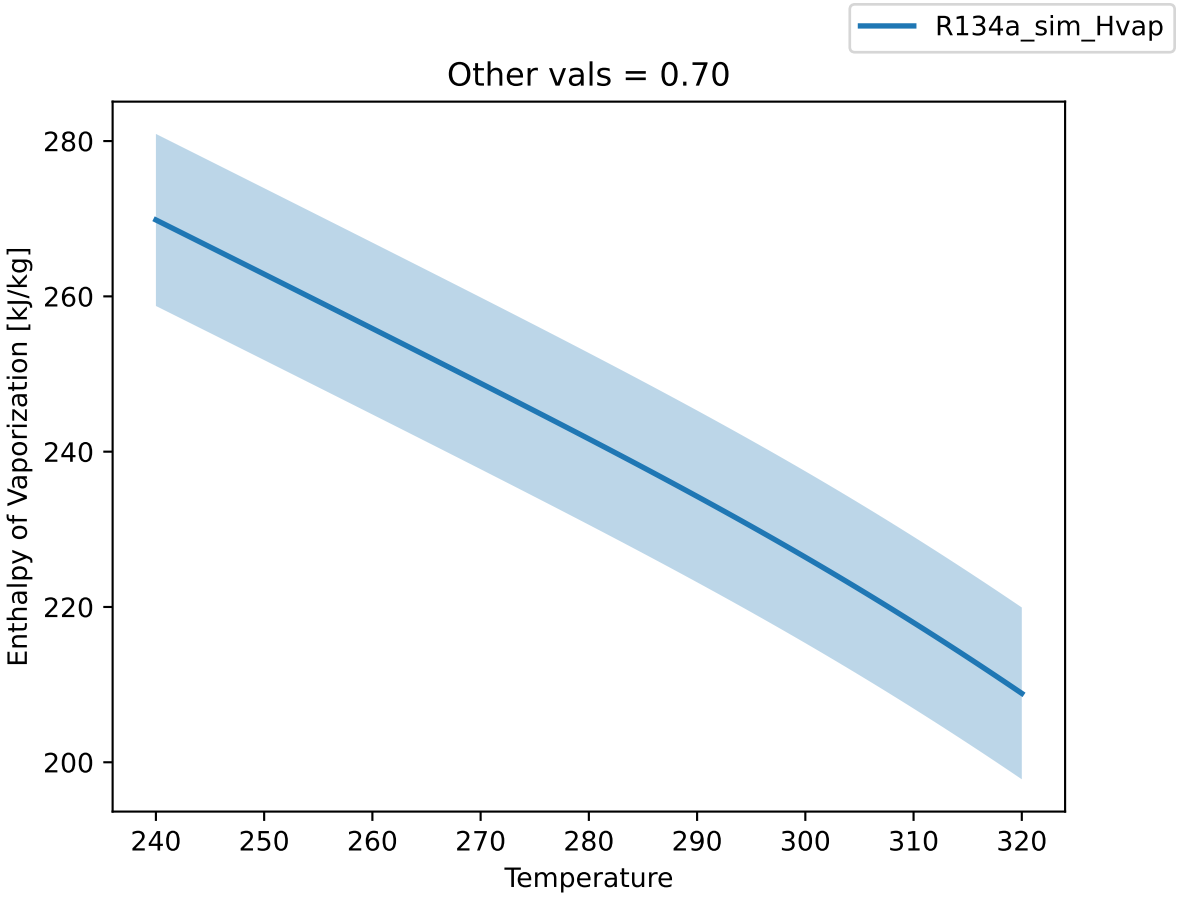

R134a_sim_Hvap
Other vals = 0.20
Enthalpy of Vaporization [kJ/kg]
60
40
20
0
−20
−40
240
250
260
270
280
290
300
310
320
Temperature

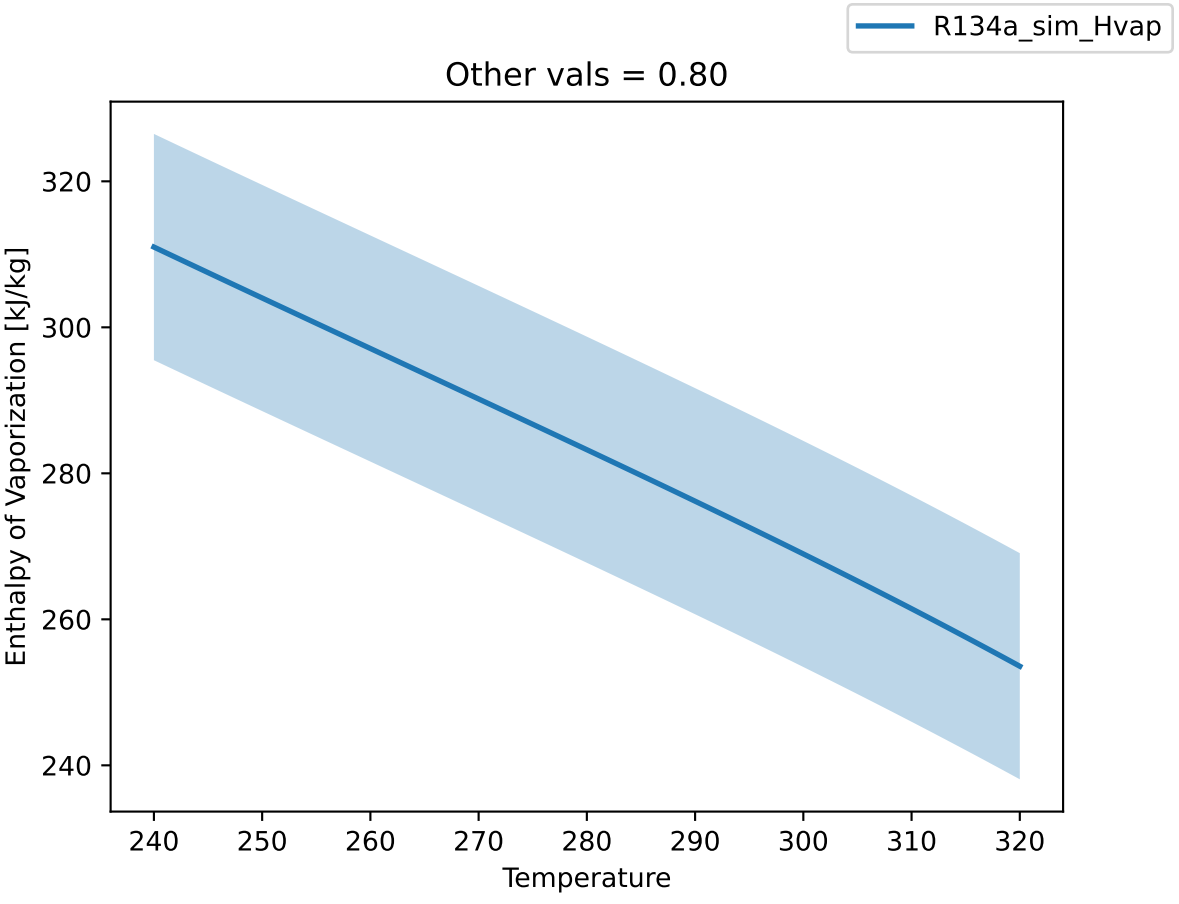

R134a_sim_Hvap
Other vals = 0.30
Enthalpy of Vaporization [kJ/kg]
0
20
40
60
80
100
240
250
260
270
280
290
300
310
320
Temperature

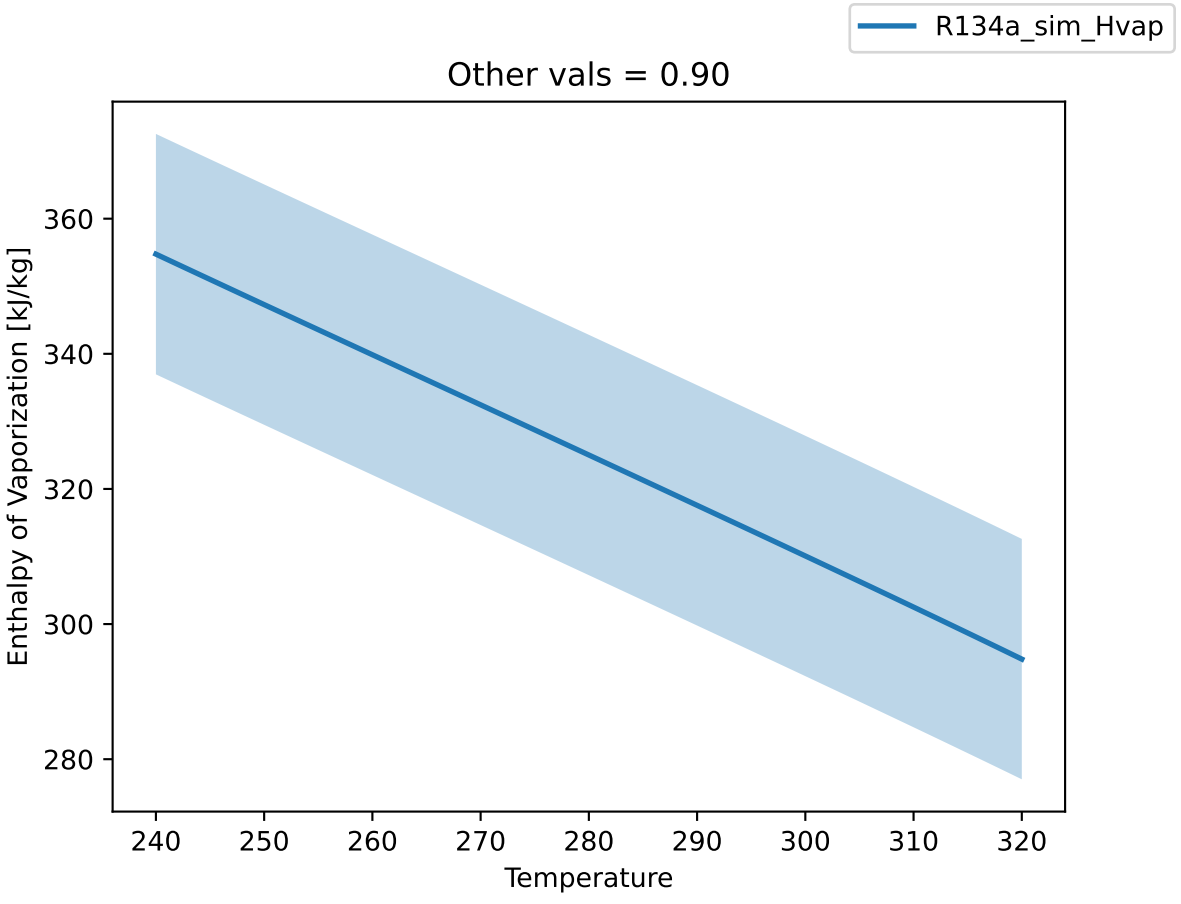

R134a_sim_Hvap
Other vals = 0.40
Enthalpy of Vaporization [kJ/kg]
140
120
100
80
60
240
250
260
270
280
290
300
310
320
Temperature

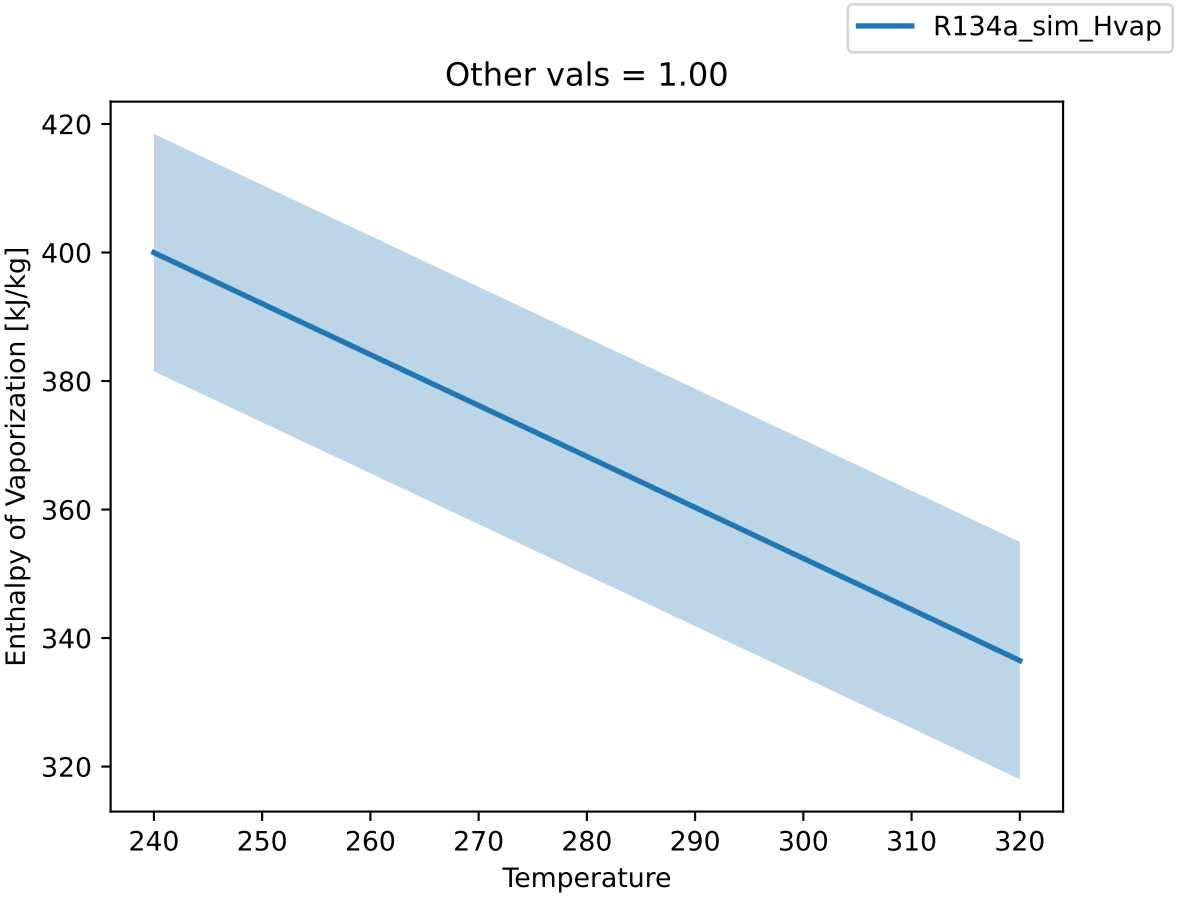

R134a_sim_Hvap
Other vals = 0.50
Enthalpy of Vaporization [kJ/kg]
200
180
160
140
120
100
240
250
260
270
280
290
300
310
320
Temperature

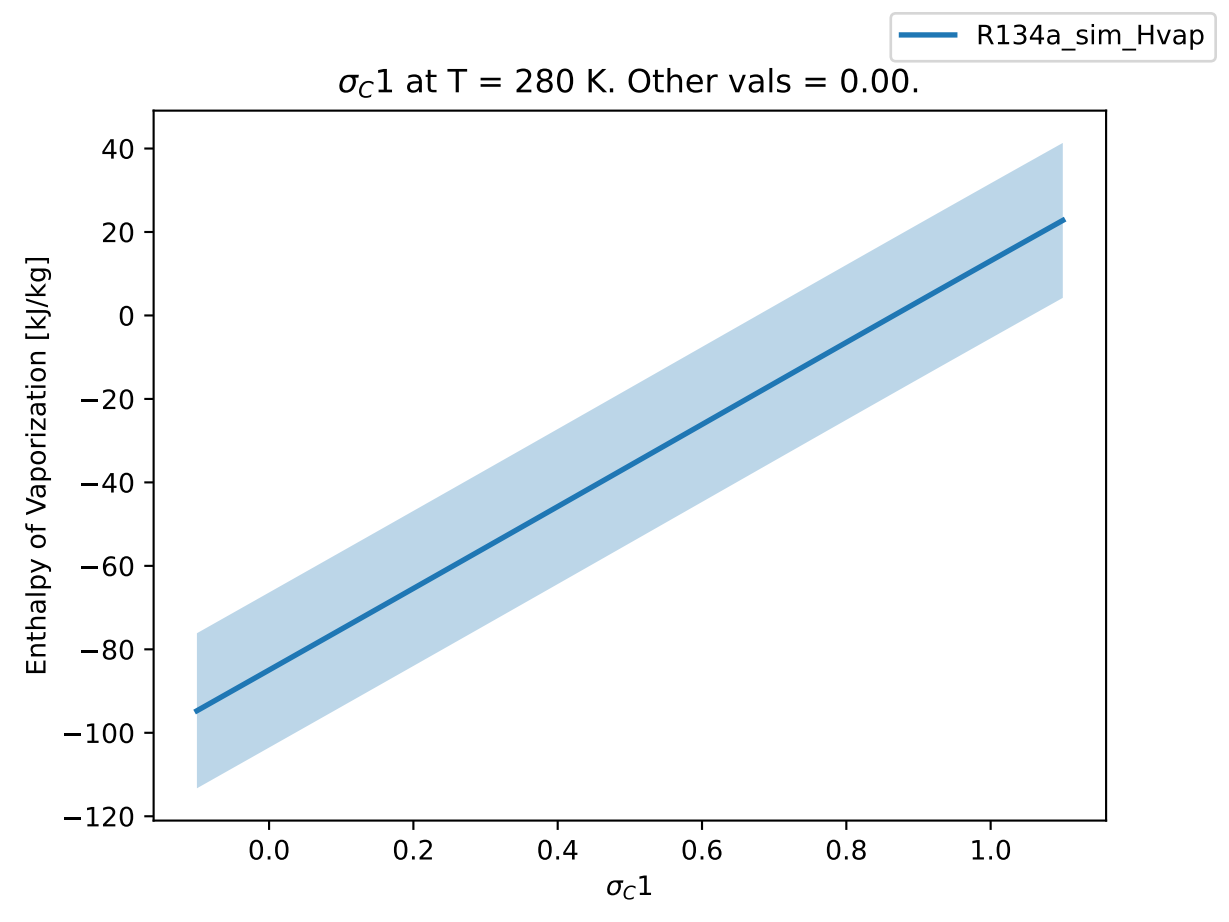

R134a_sim_Hvap
Other vals = 0.60
Enthalpy of Vaporization [kJ/kg]
240
220
200
180
160
240
250
260
270
280
290
300
310
320
Temperature

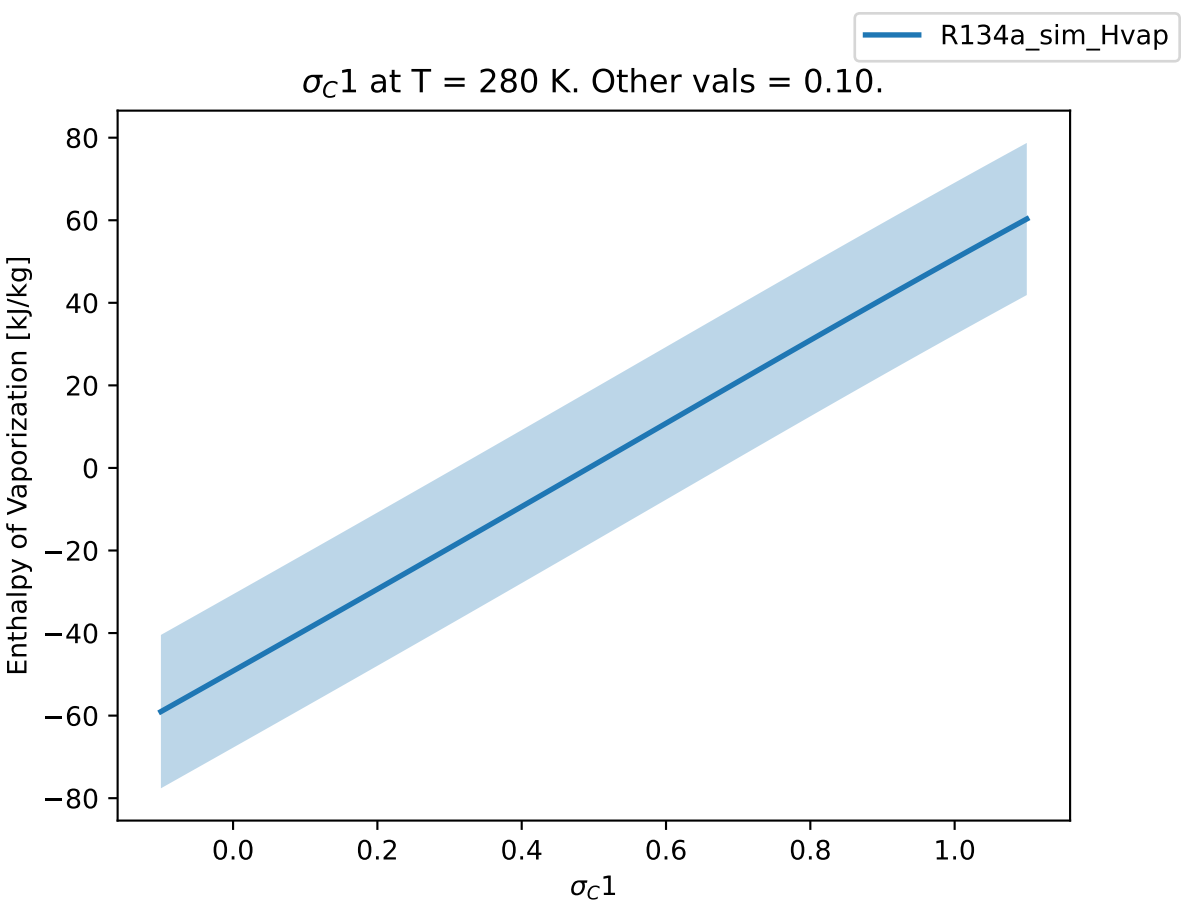

R134a_sim_Hvap
Other vals = 0.70
Enthalpy of Vaporization [kJ/kg]
280
260
240
220
200
240
250
260
270
280
290
300
310
320
Temperature

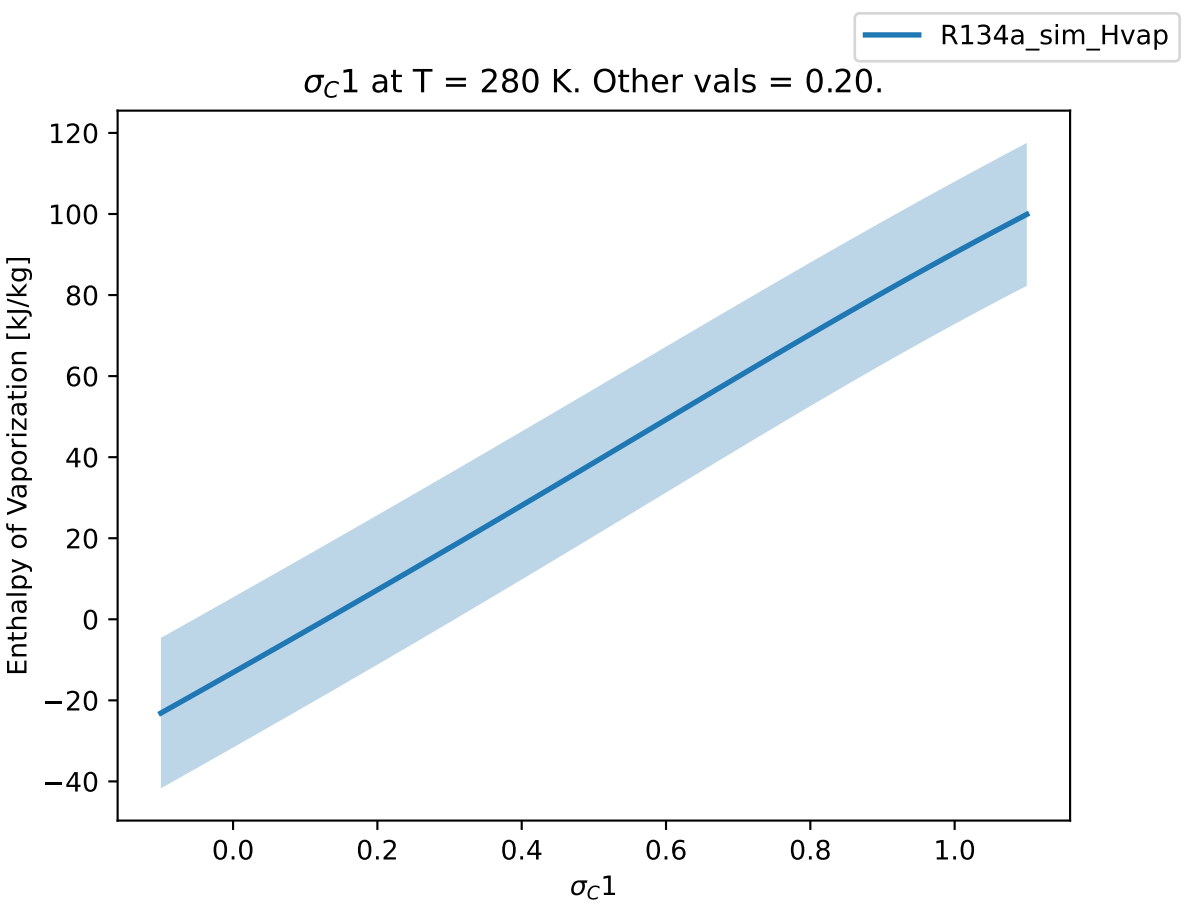

R134a_sim_Hvap
Other vals = 0.80
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
240
250
260
270
280
290
300
310
320
Temperature

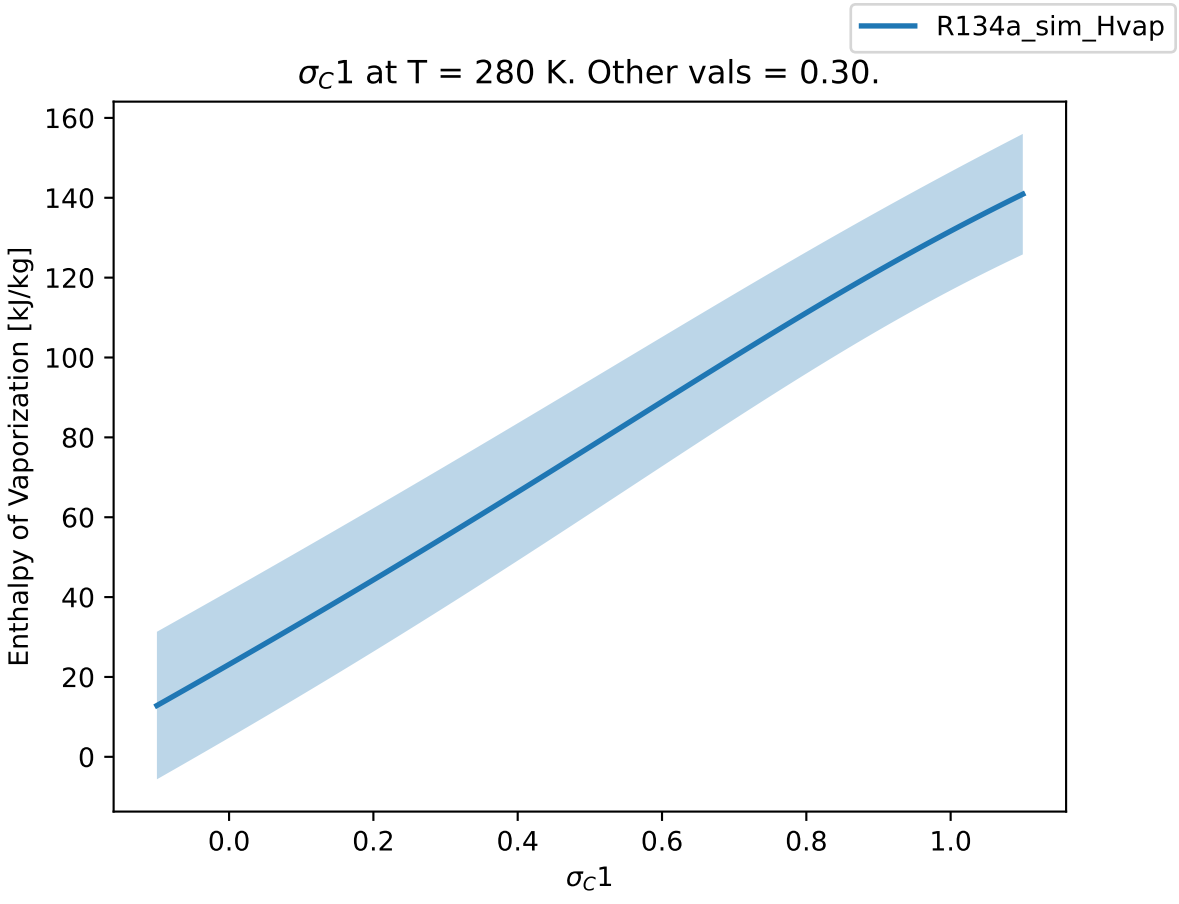

R134a_sim_Hvap
Other vals = 0.90
Enthalpy of Vaporization [kJ/kg]
360
340
320
300
280
240
250
260
270
280
290
300
310
320
Temperature

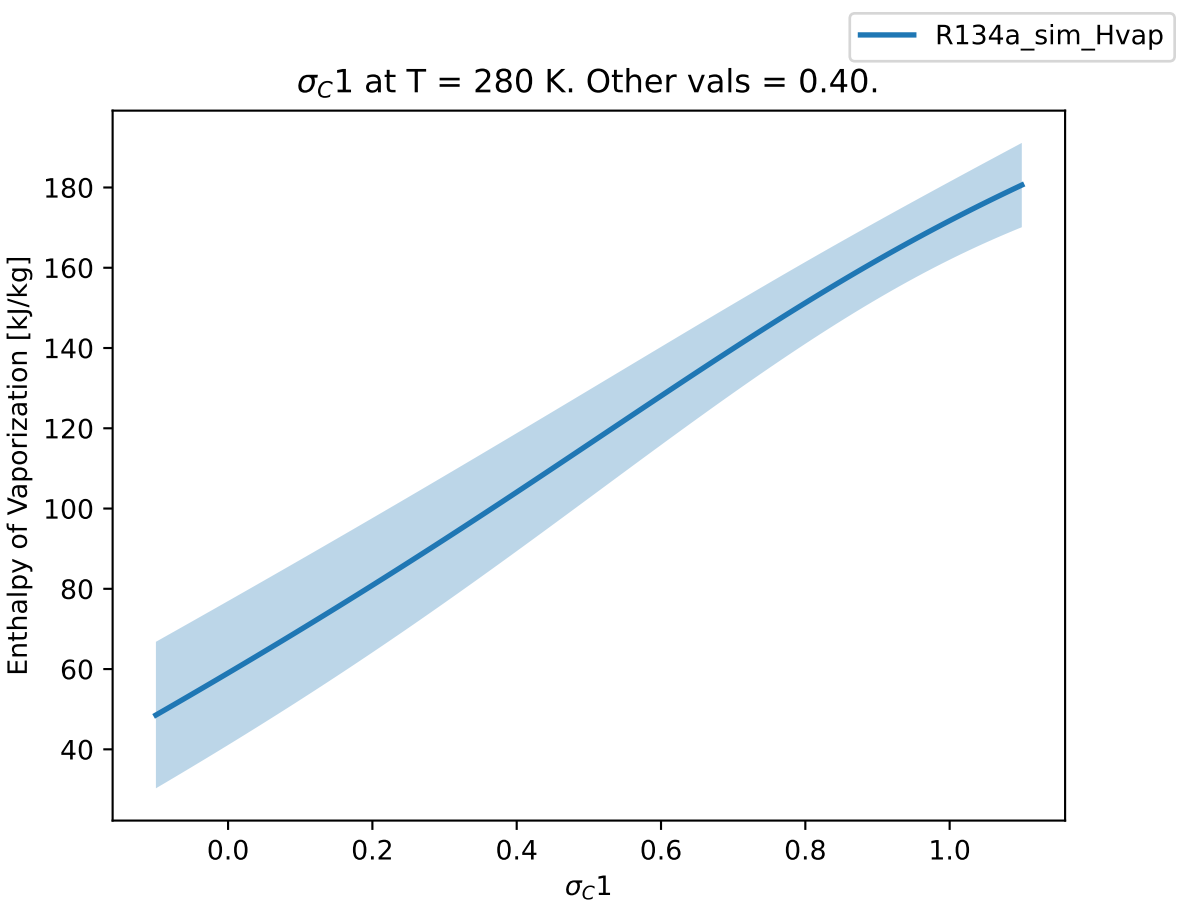

R134a_sim_Hvap
Other vals = 1.00
Enthalpy of Vaporization [kJ/kg]
420
400
380
360
340
320
240
250
260
270
280
290
300
310
320
Temperature

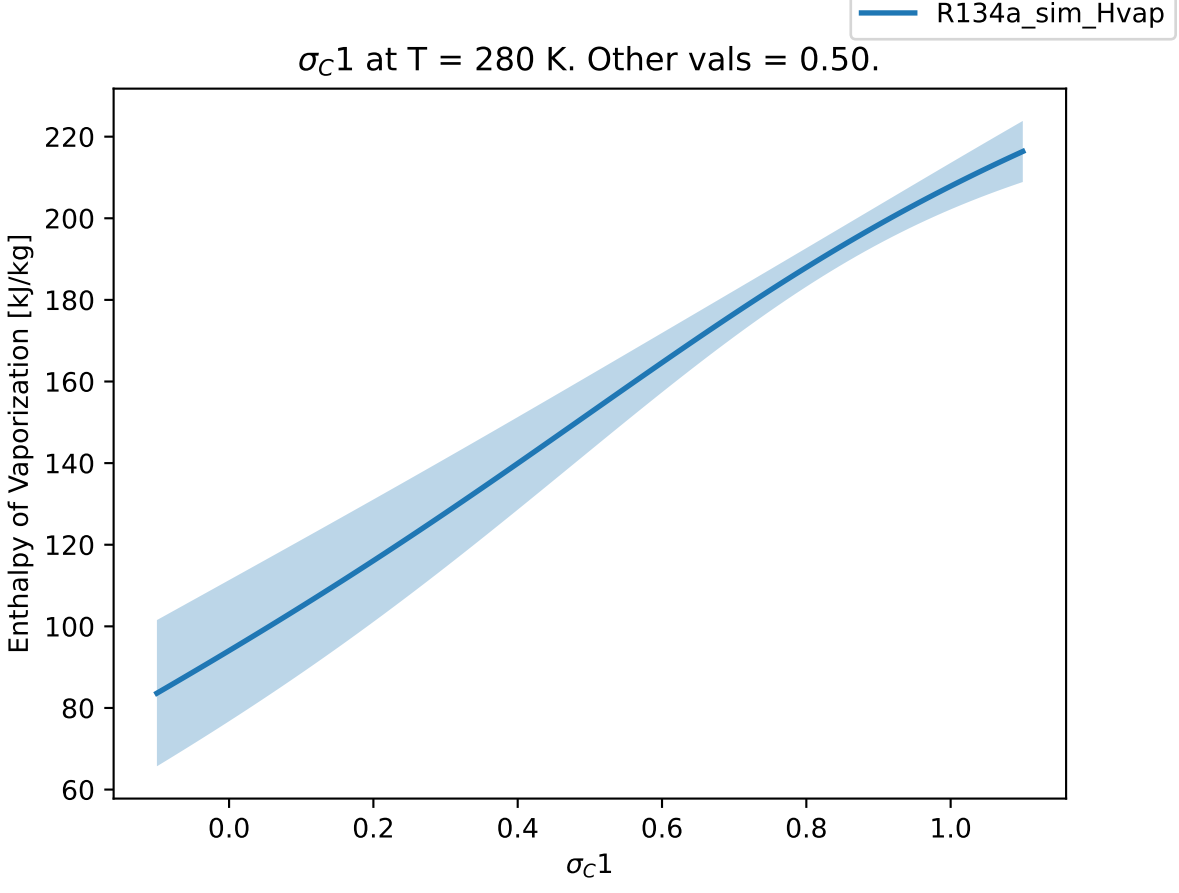

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
40
20
0
−20
−40
−60
−80
−100
−120
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

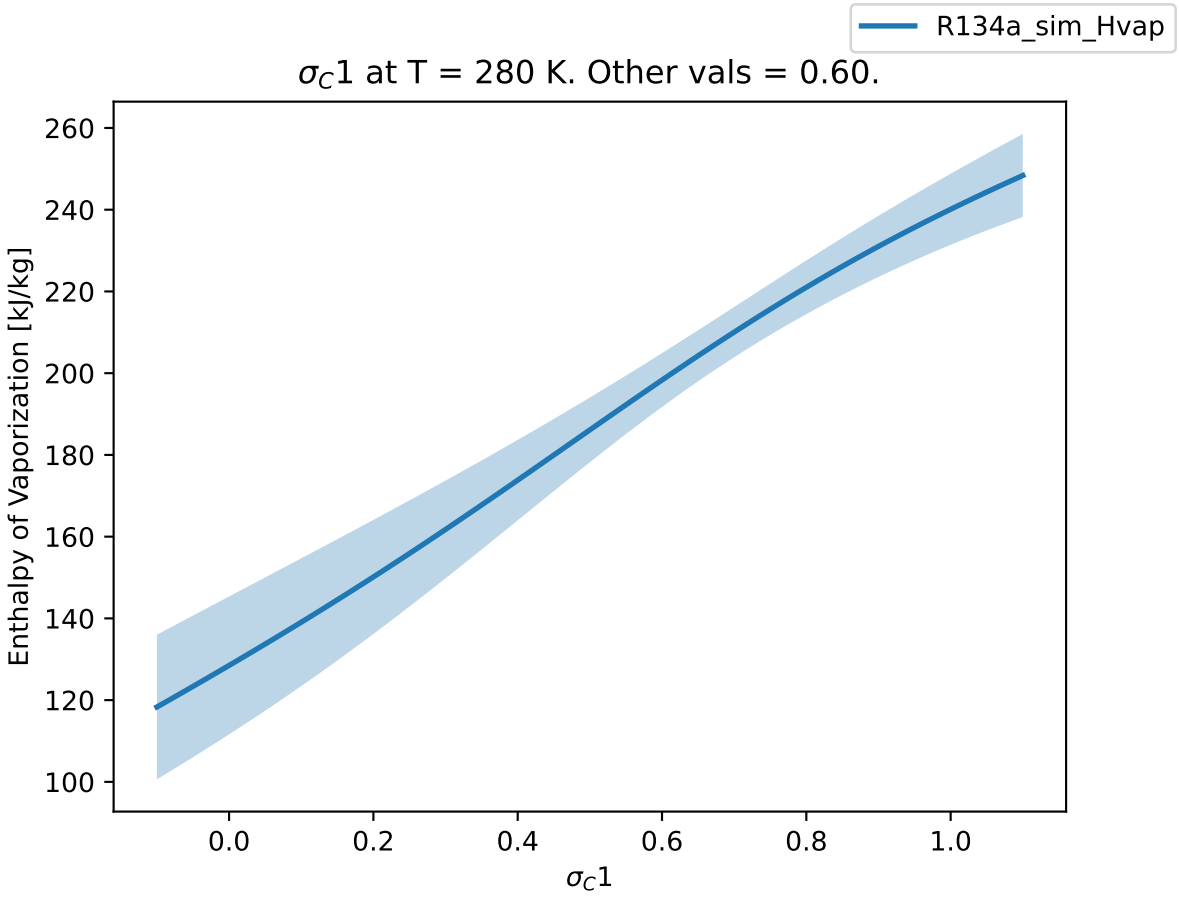

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
80
60
40
20
0
−20
−40
−60
−80
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

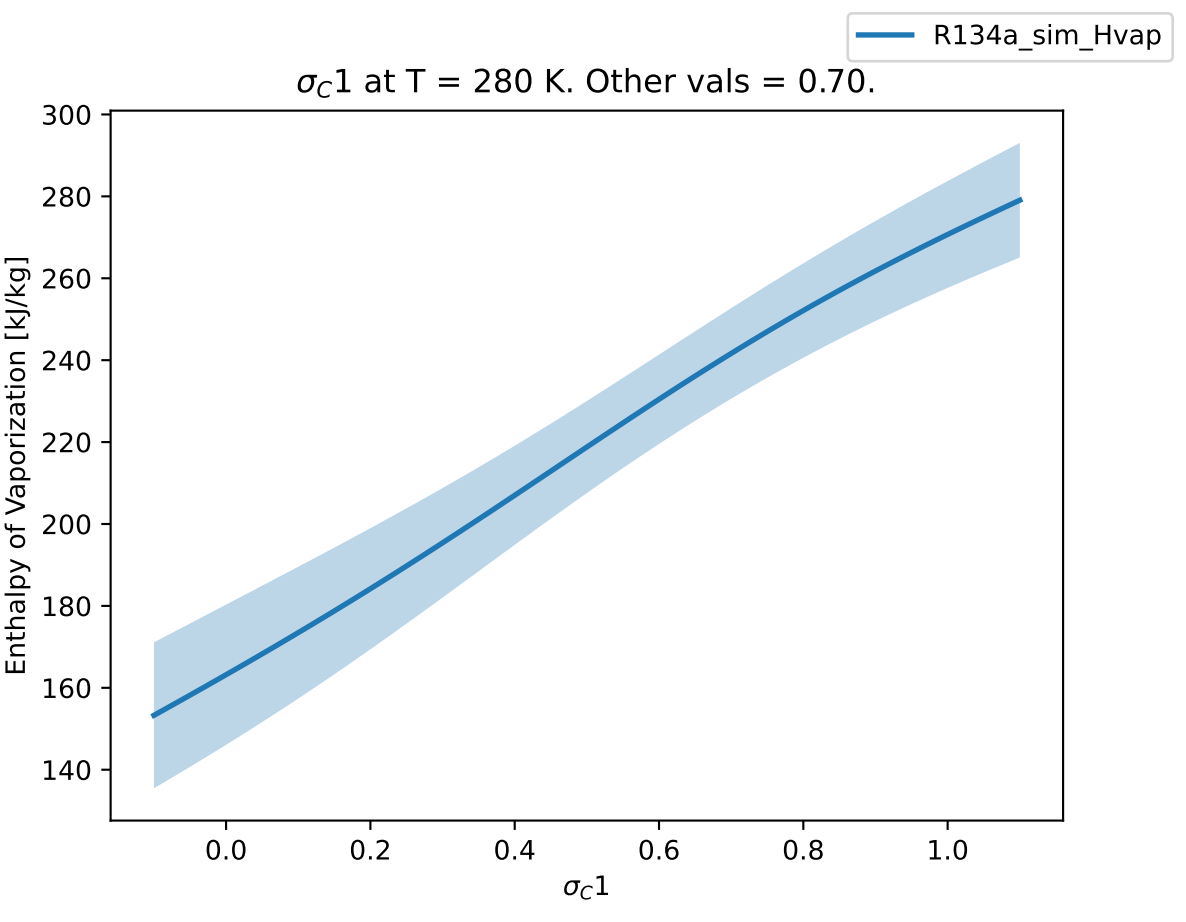

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
120
100
80
60
40
20
0
−20
−40
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

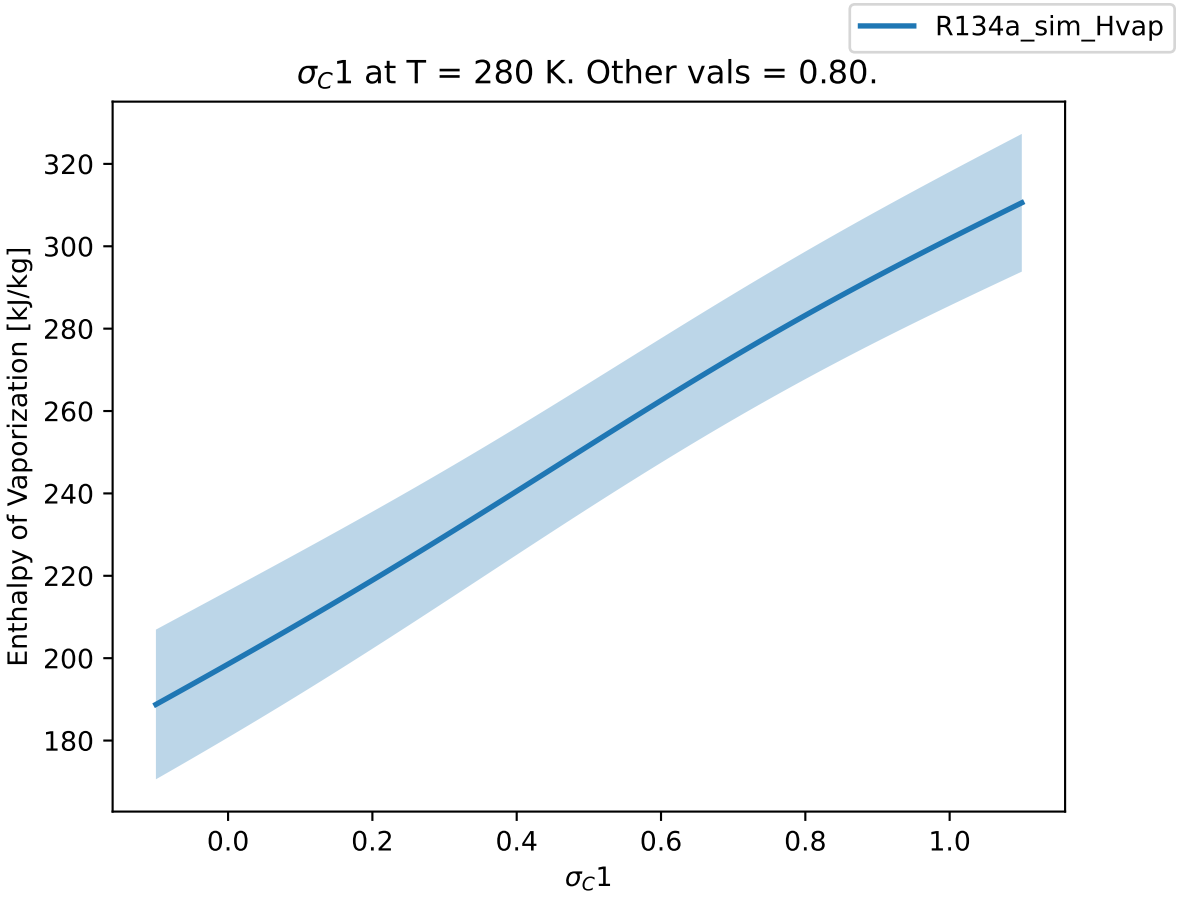

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
160
140
120
100
80
60
40
20
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

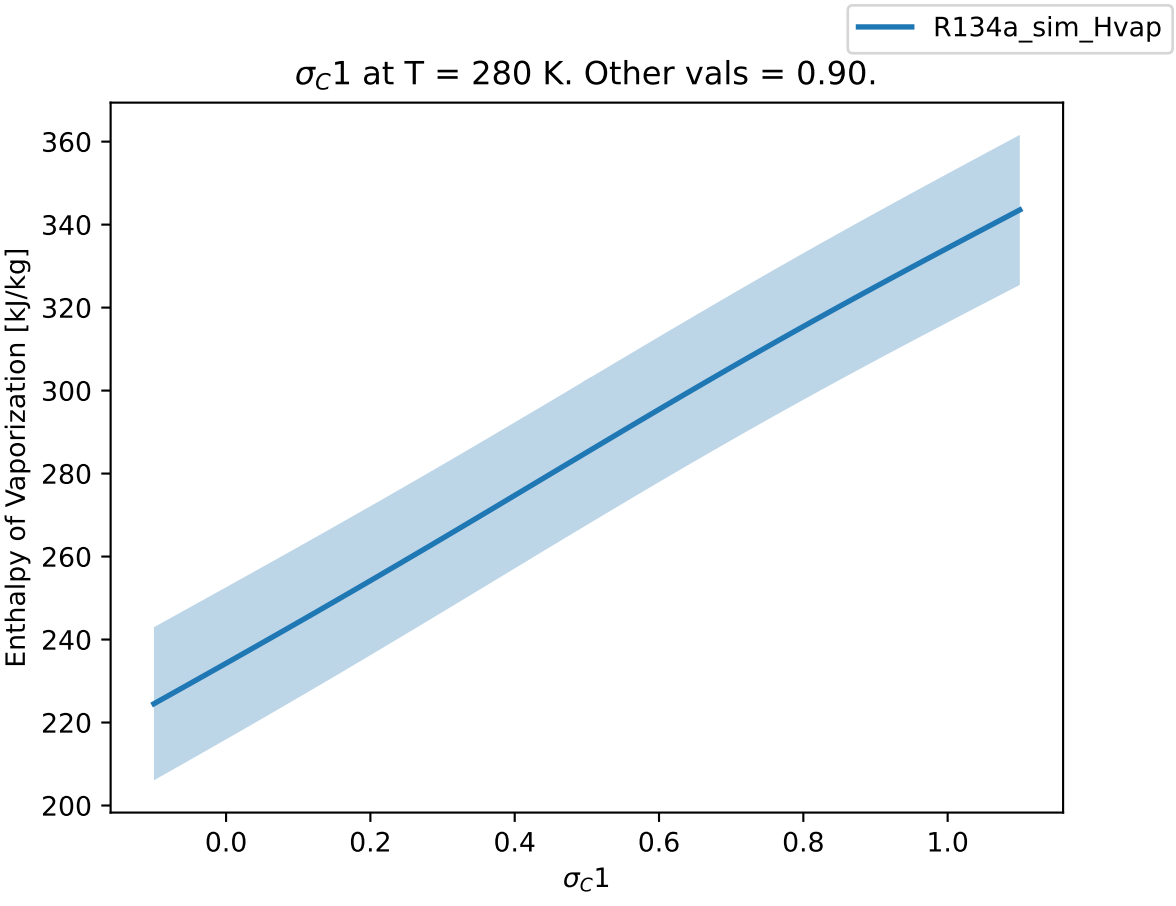

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
180
160
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

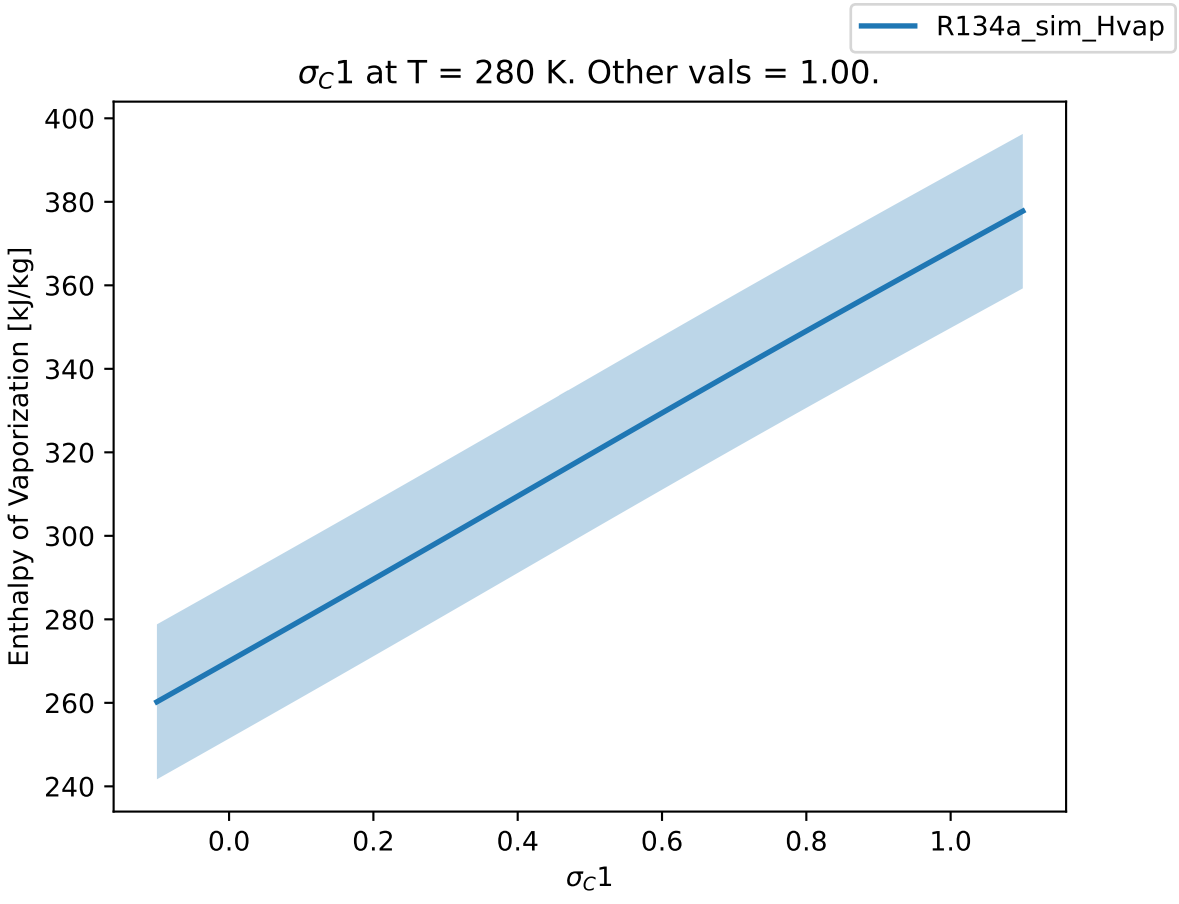

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
220
200
180
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

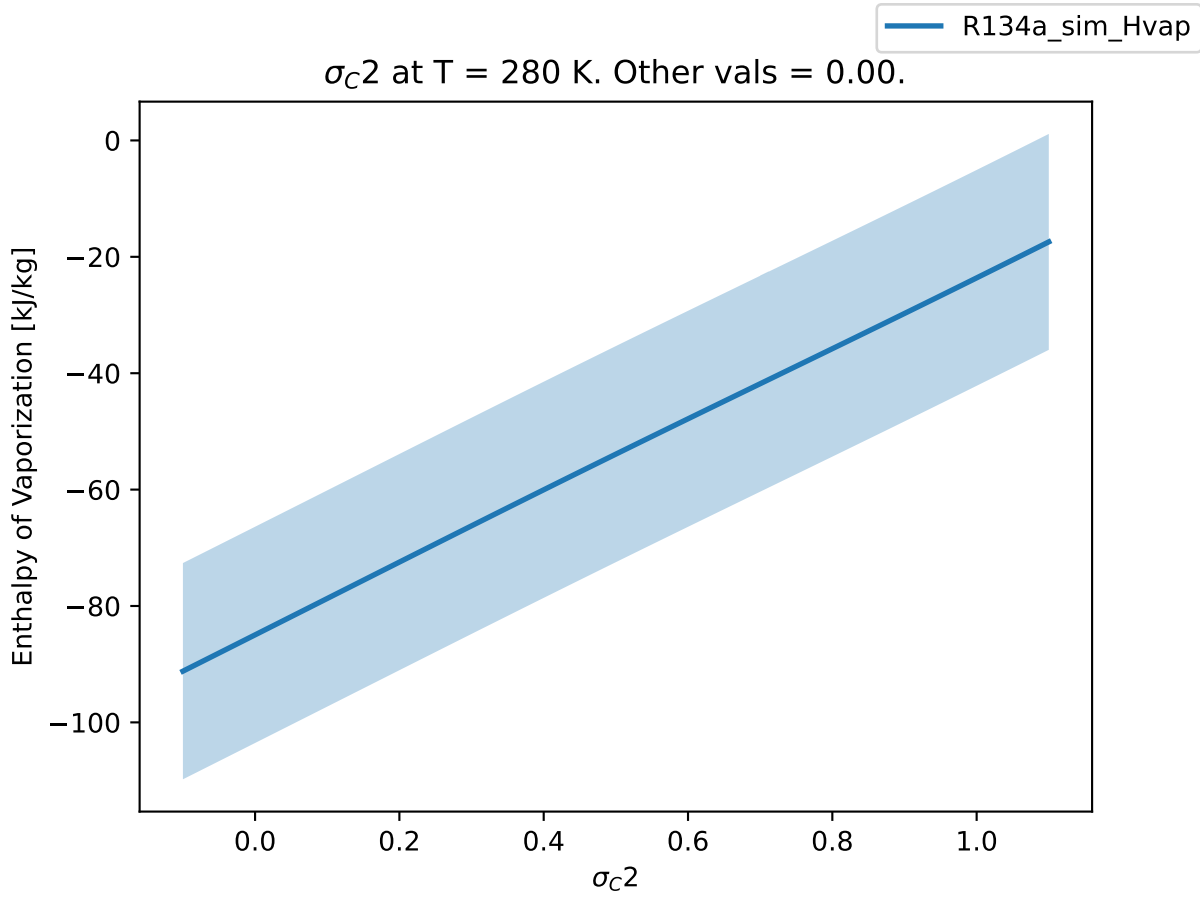

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
260
240
220
200
180
160
140
120
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

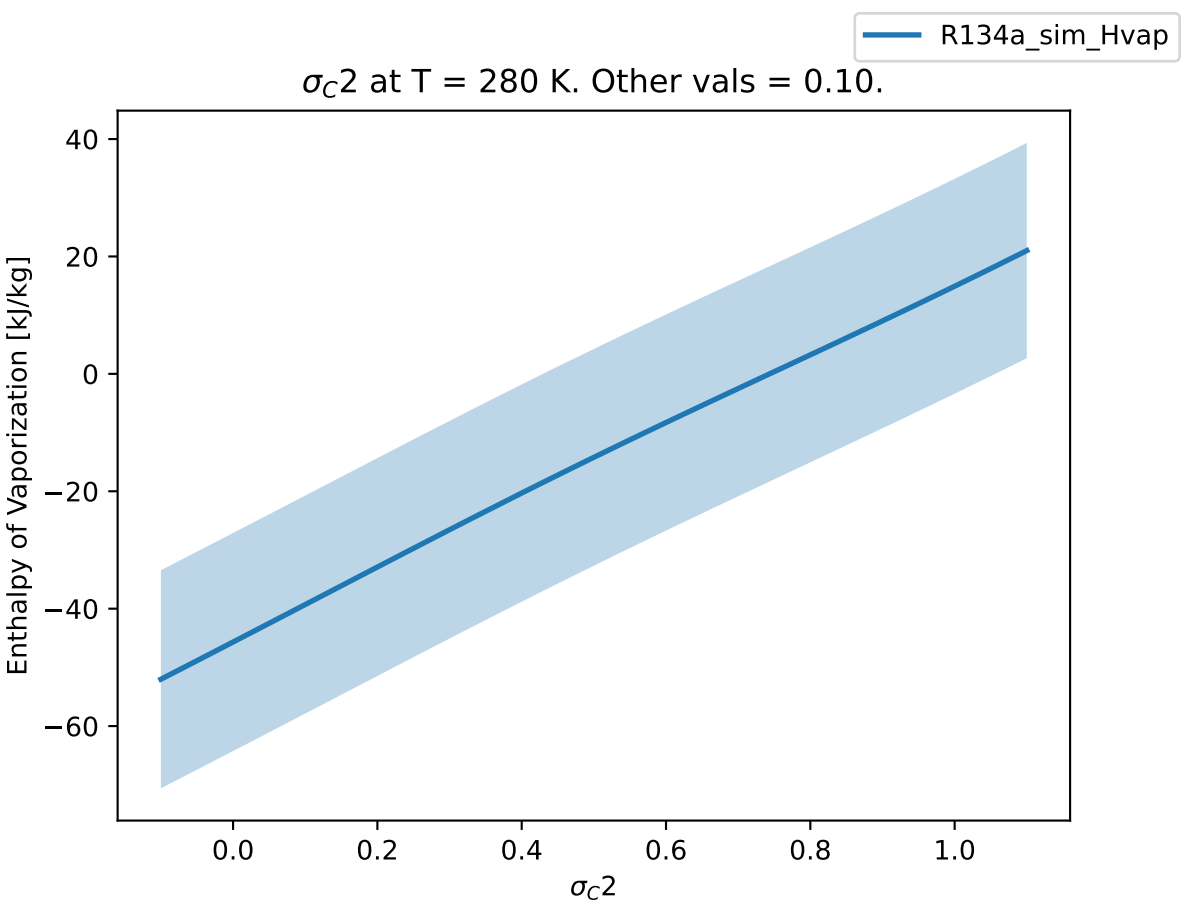

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
300
280
260
240
220
200
180
160
140
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

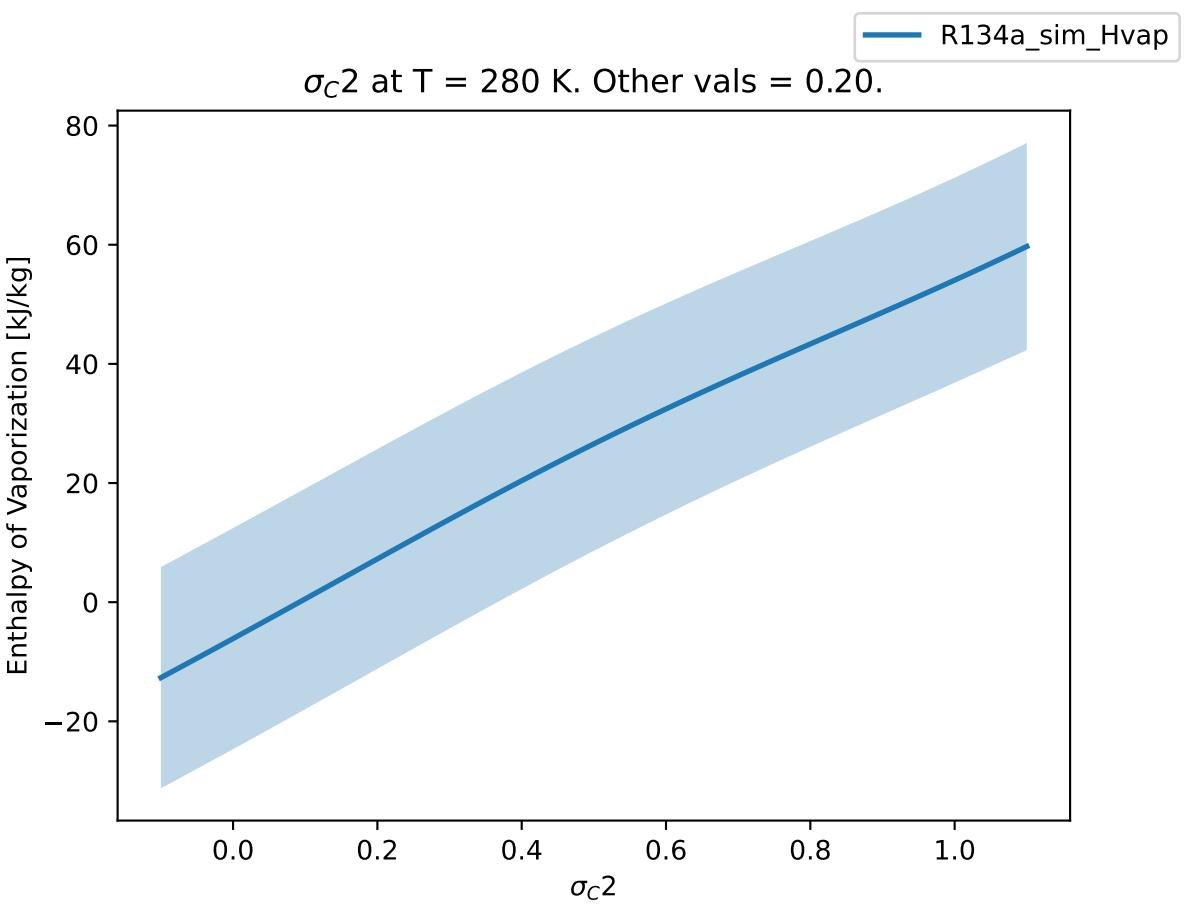

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
220
200
180
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

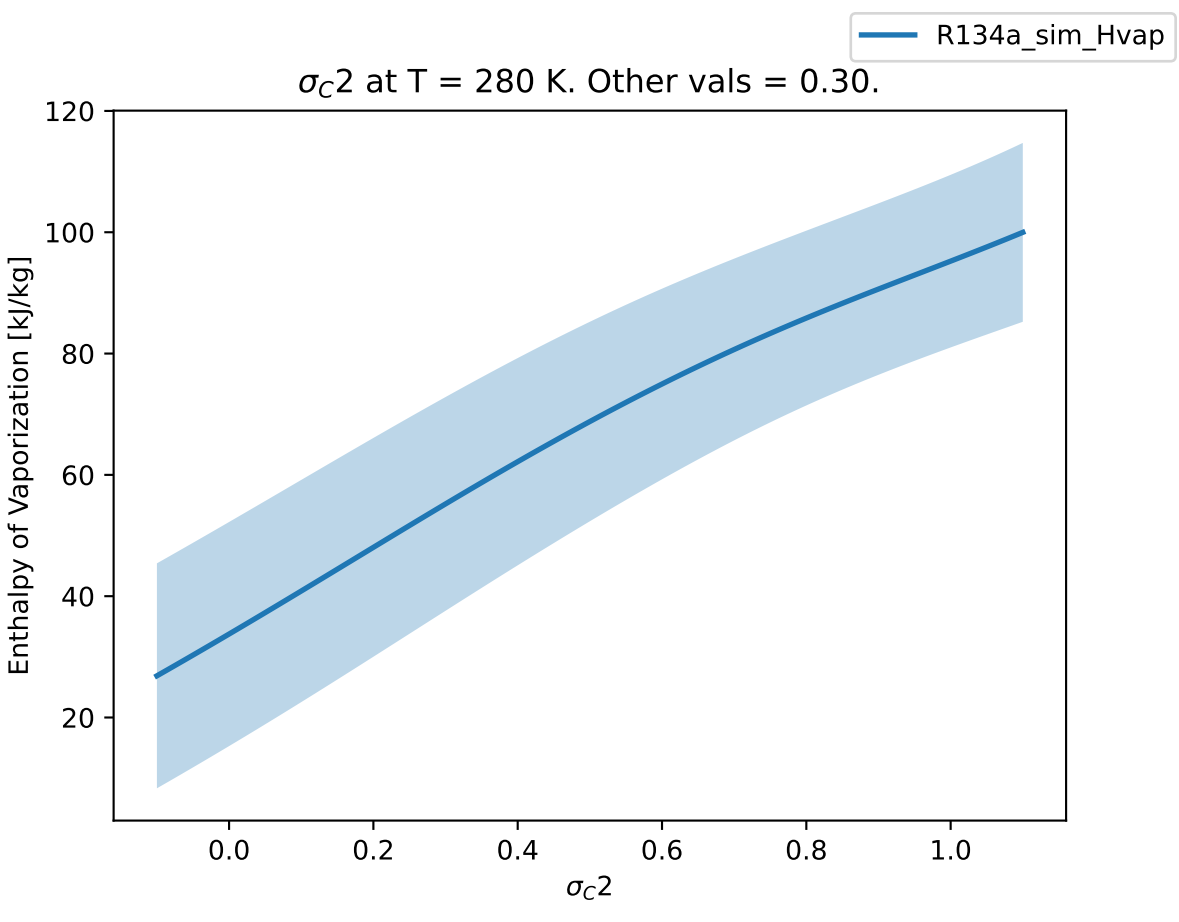

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
360
340
320
300
280
260
240
220
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

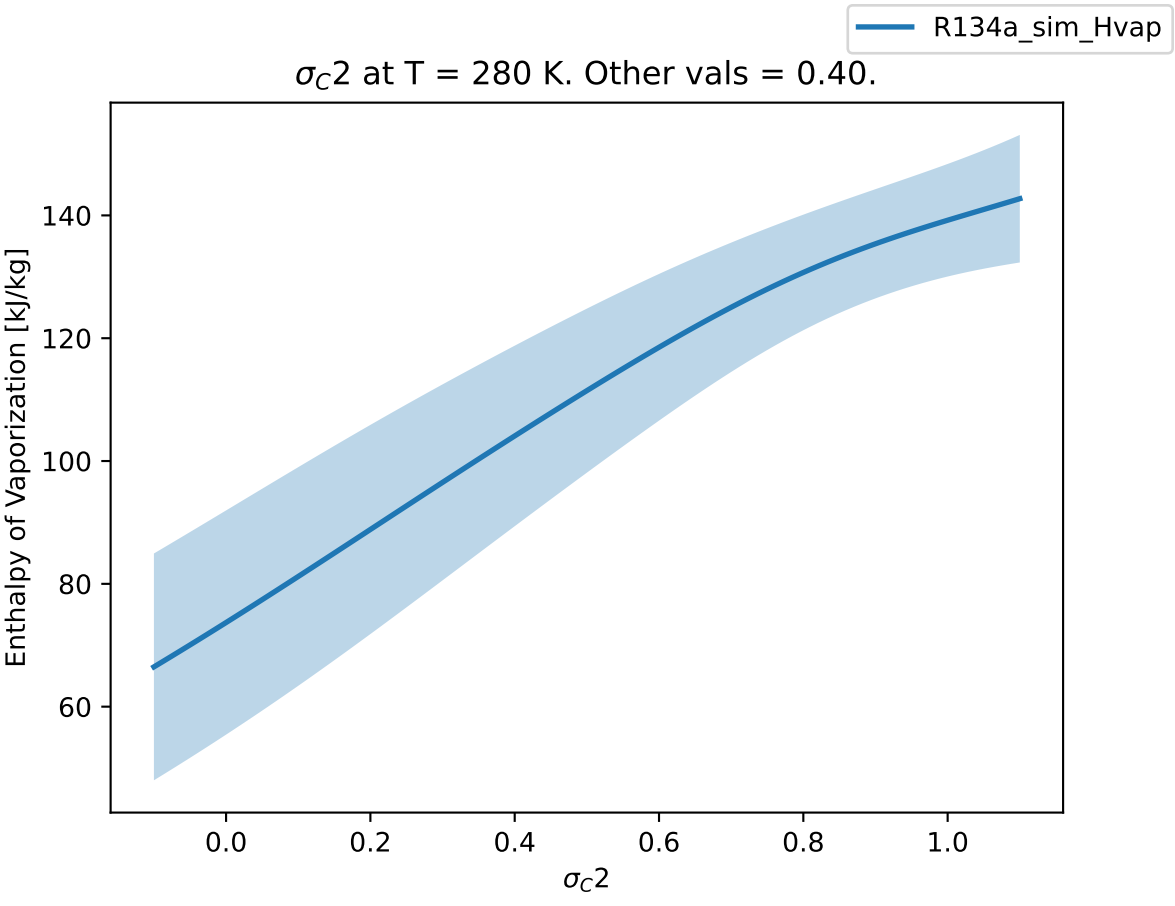

R134a_sim_Hvap
σ_C1 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
400
380
360
340
320
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

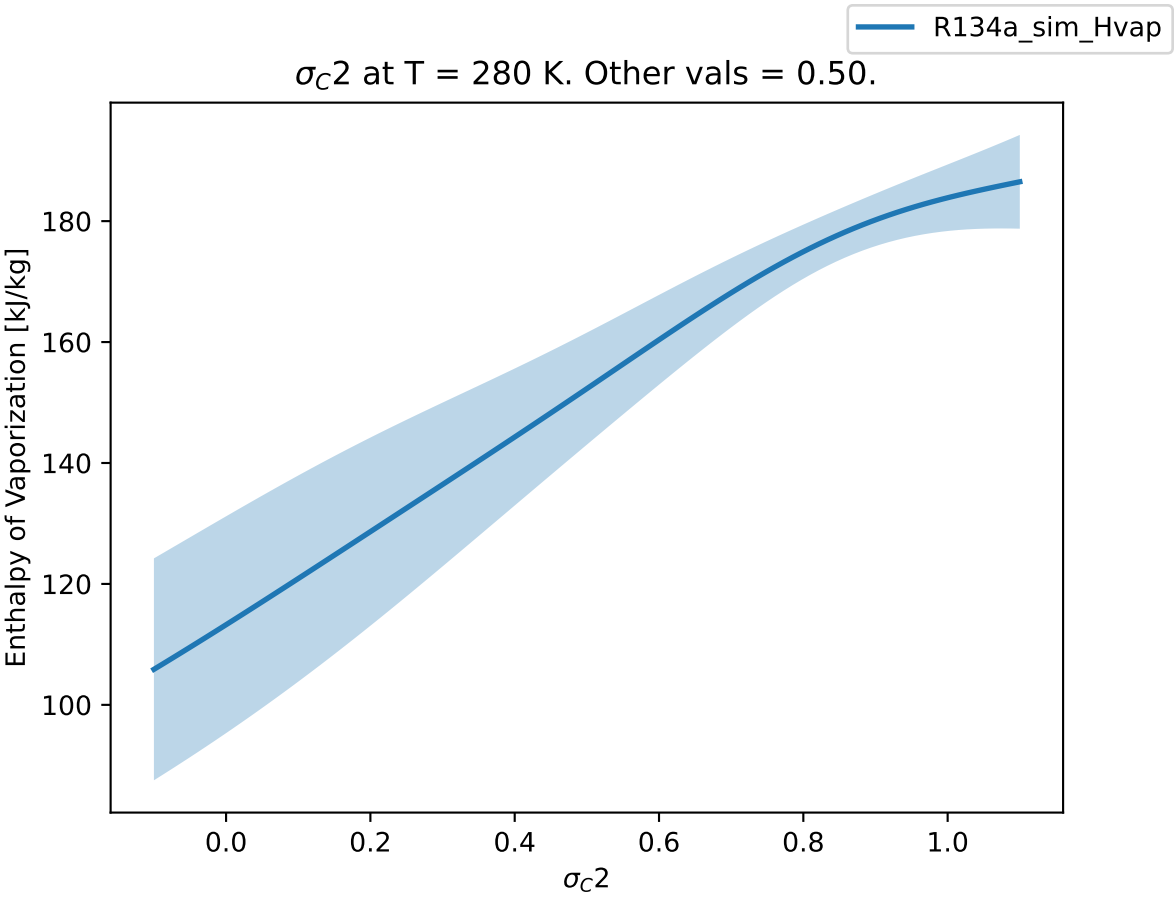

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

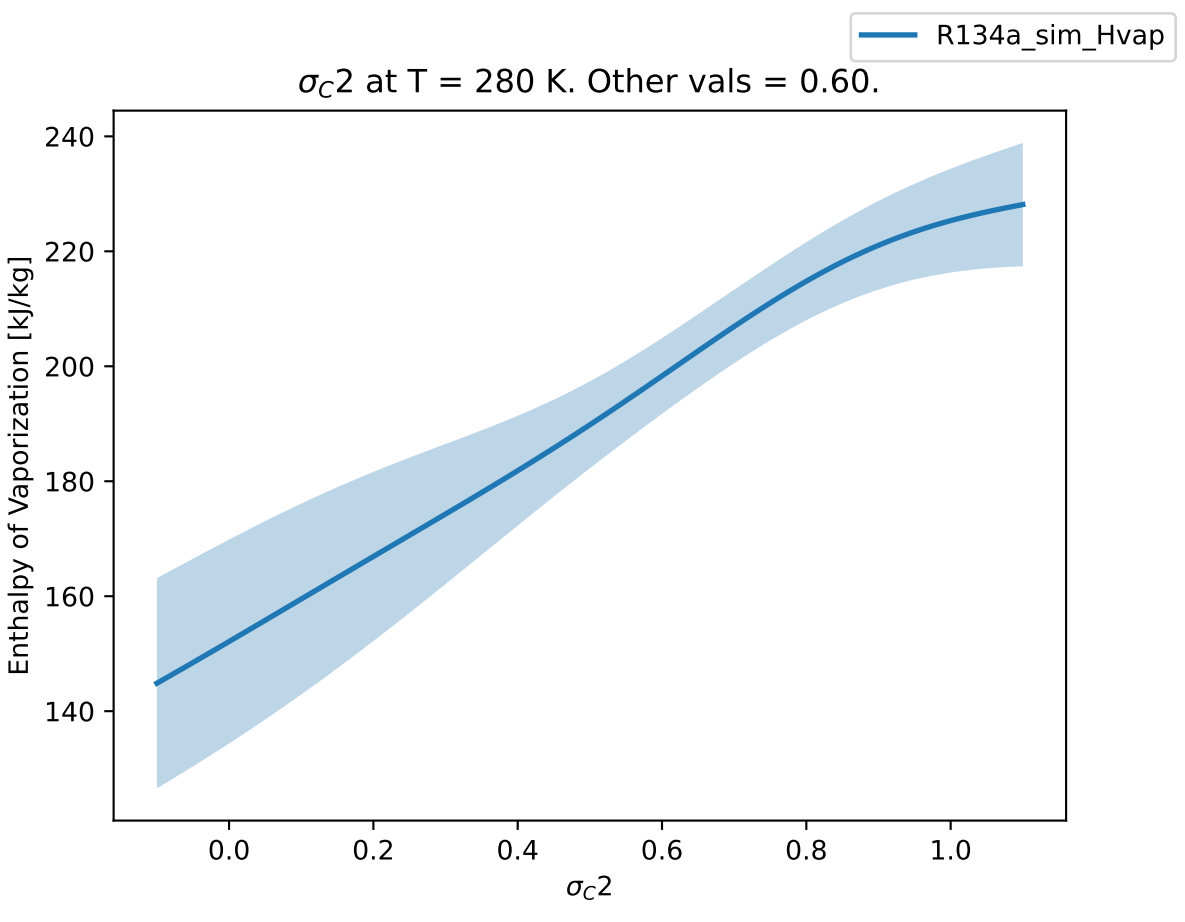

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

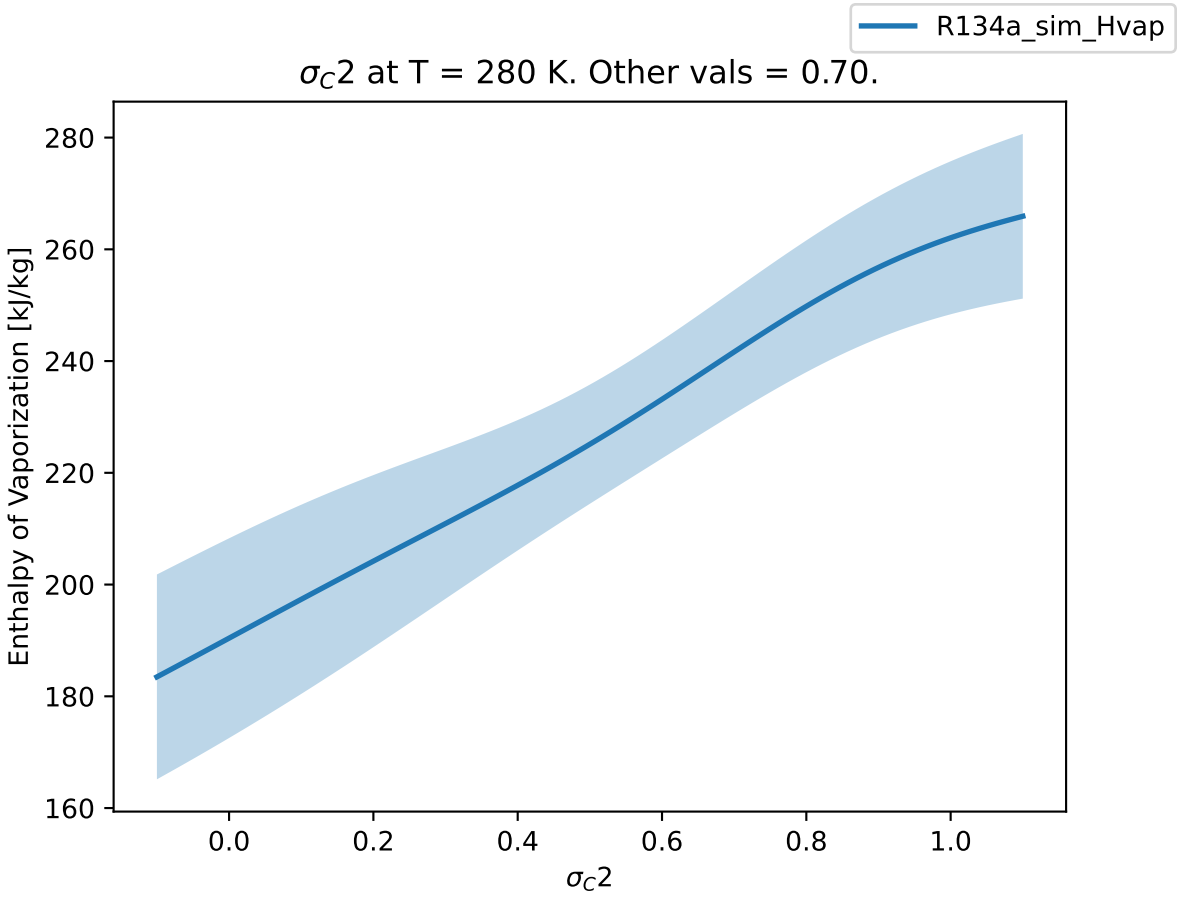

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

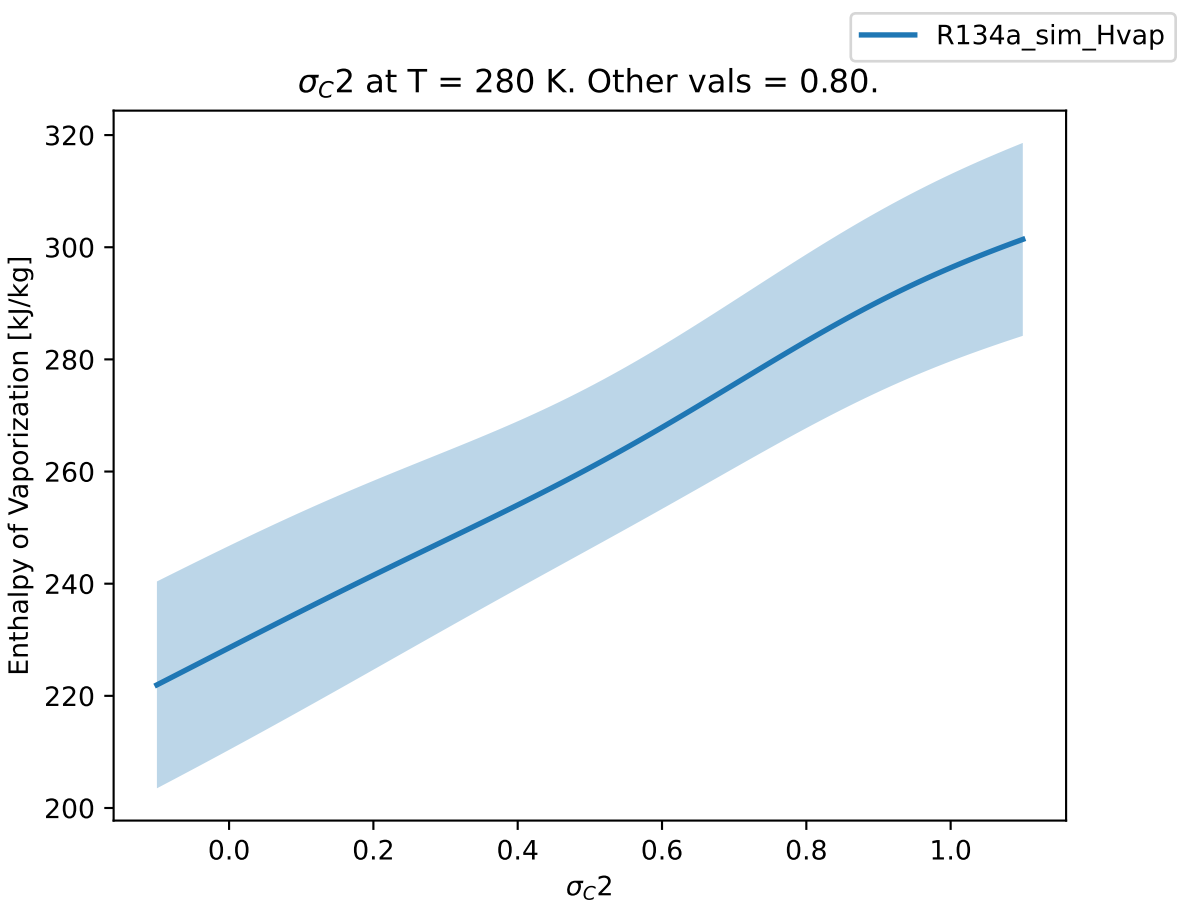

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.30.
120
100
80
60
40
20
Enthalpy of Vaporization [kJ/kg]
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

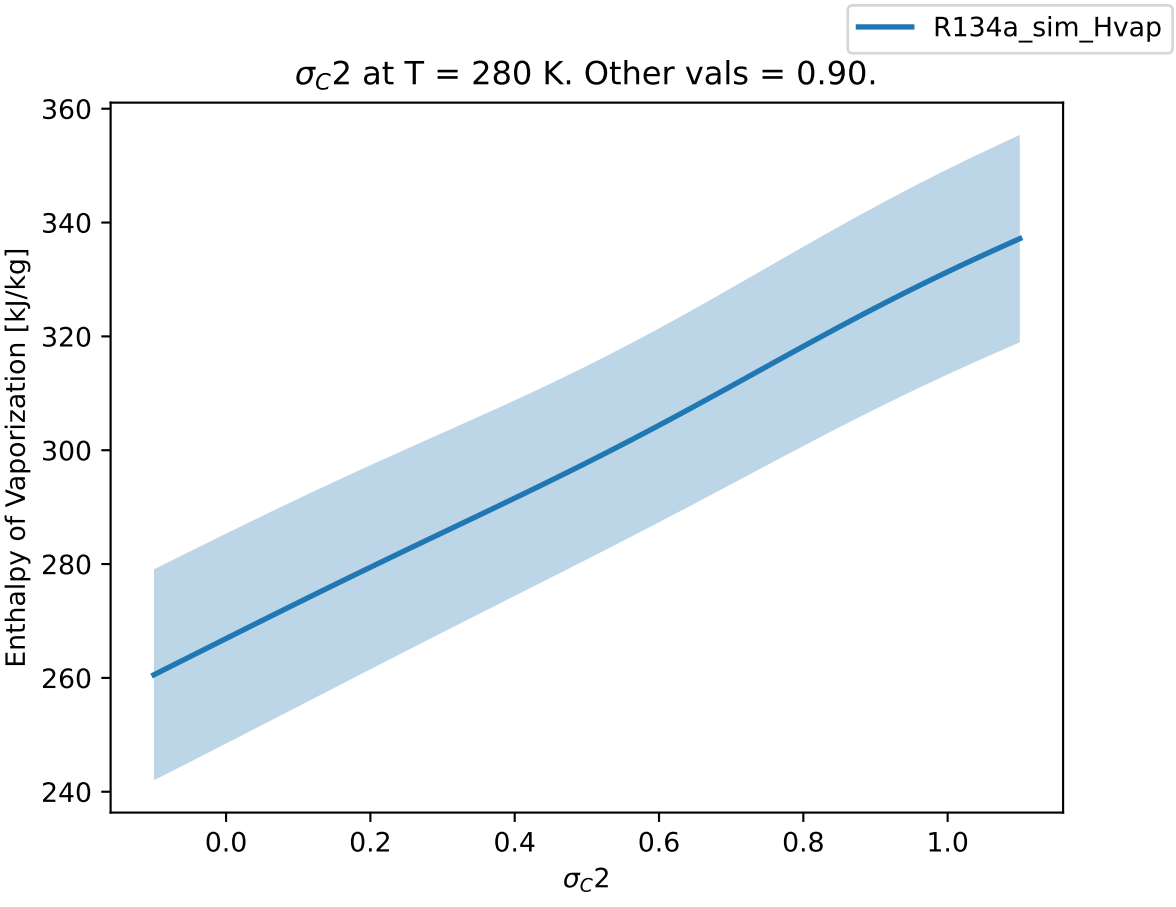

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

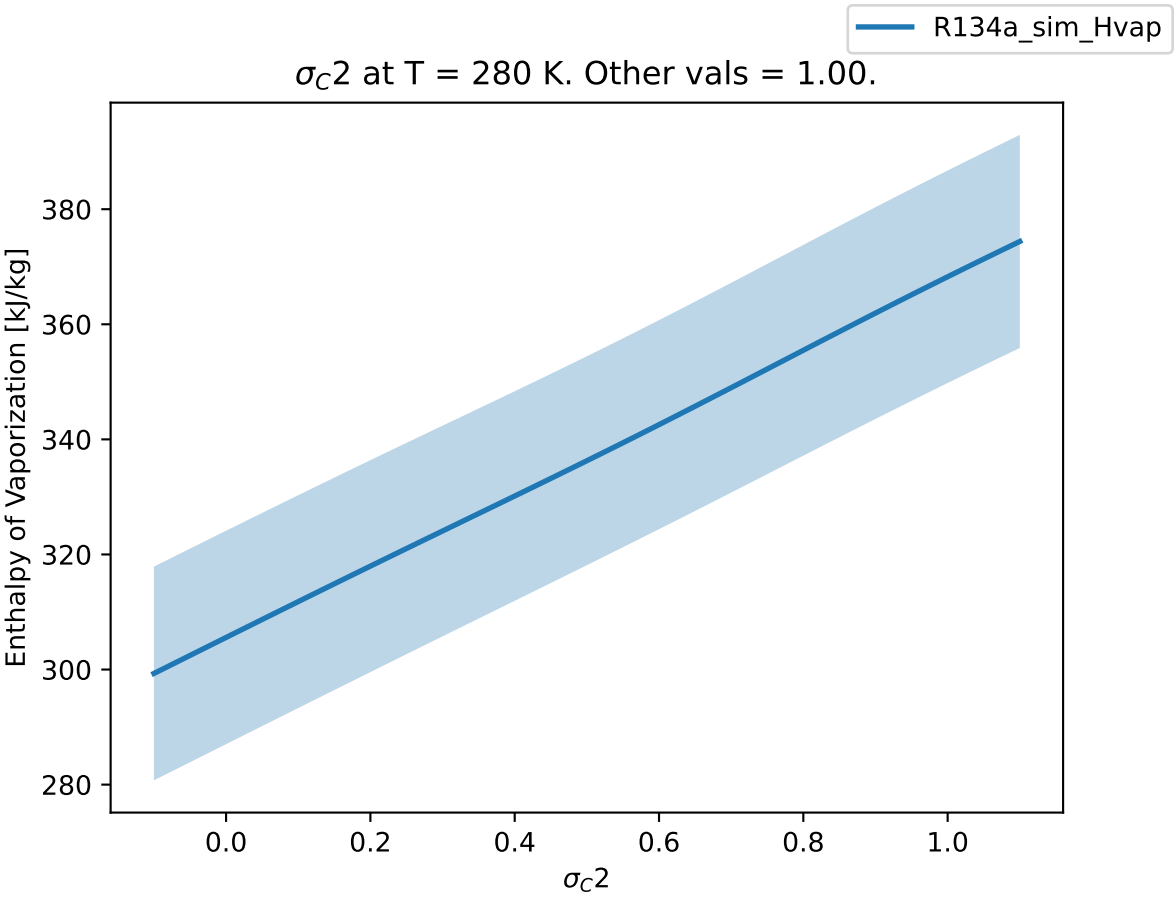

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

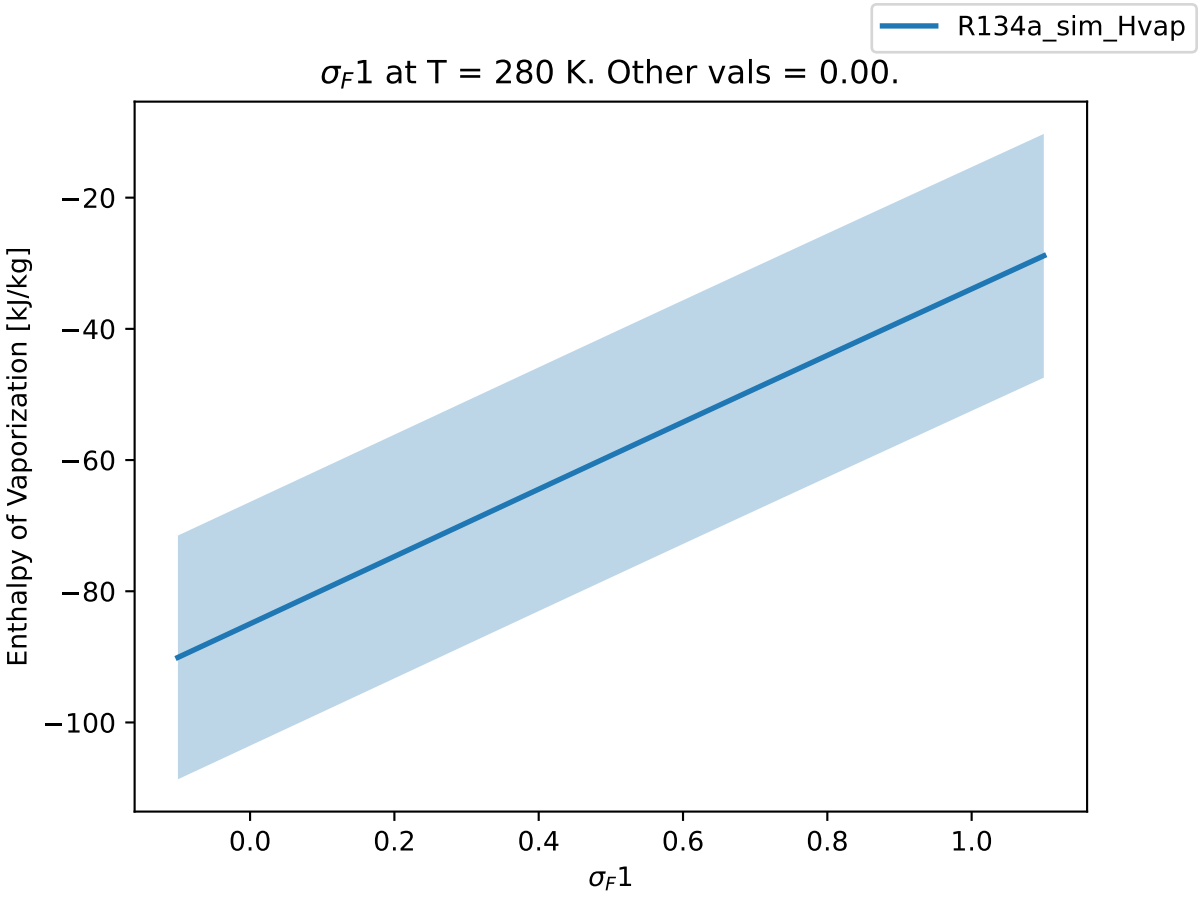

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
240
220
200
180
160
140
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

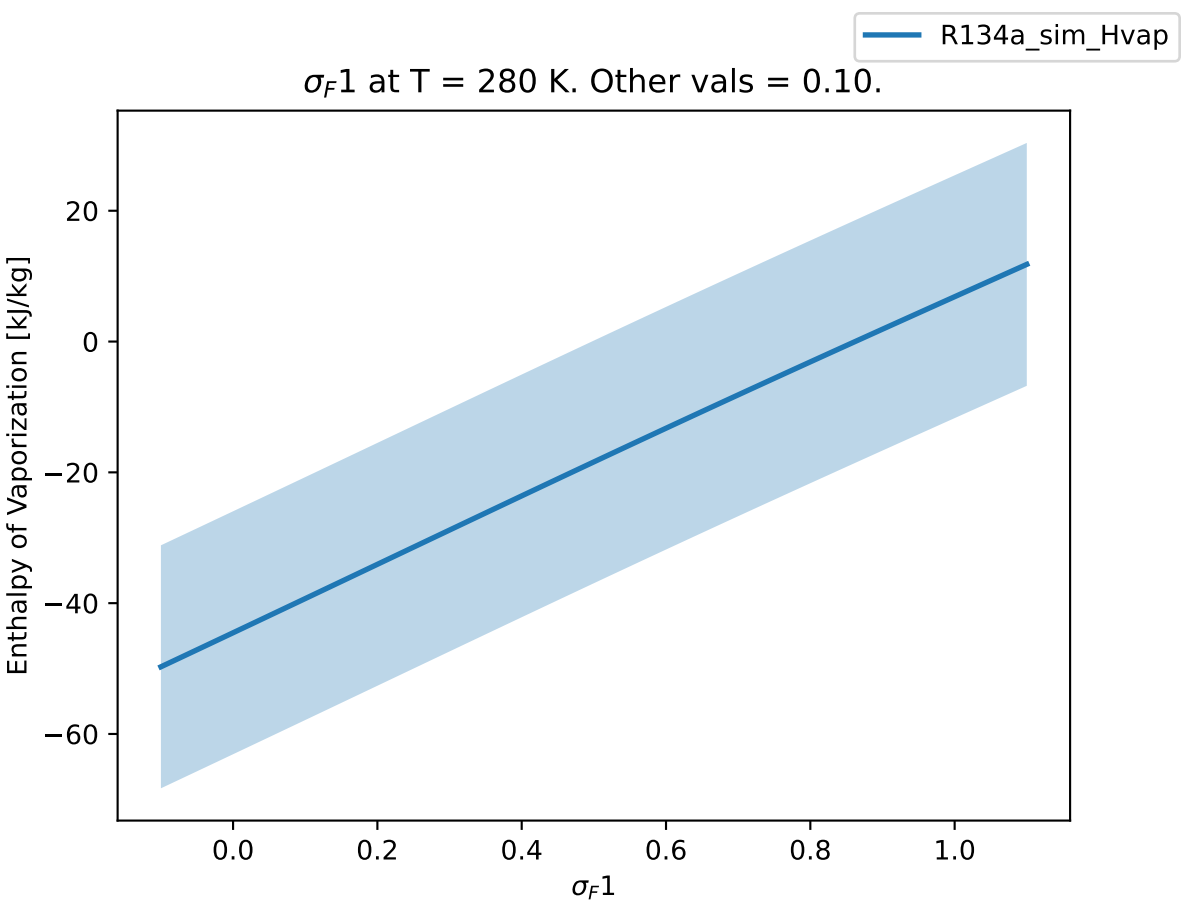

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
280
260
240
220
200
180
160
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

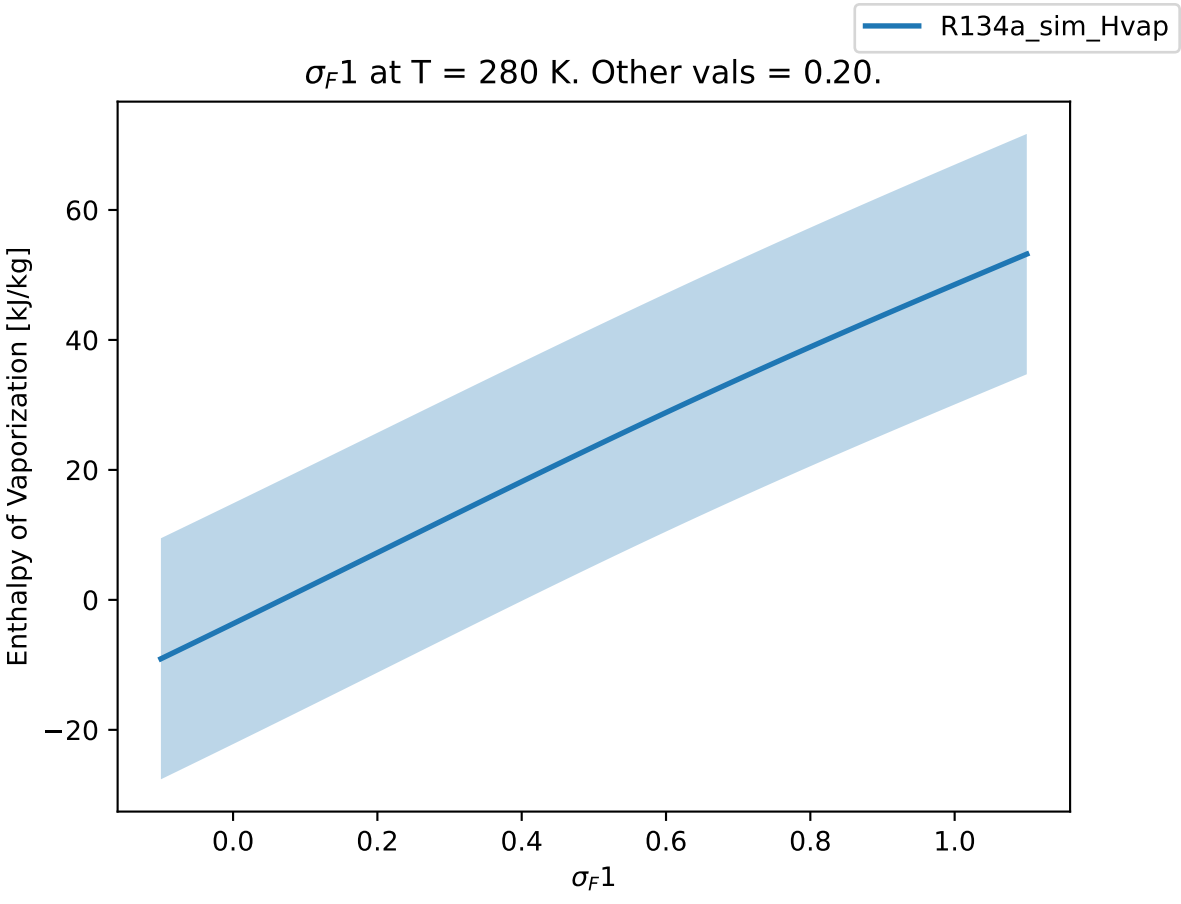

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
220
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

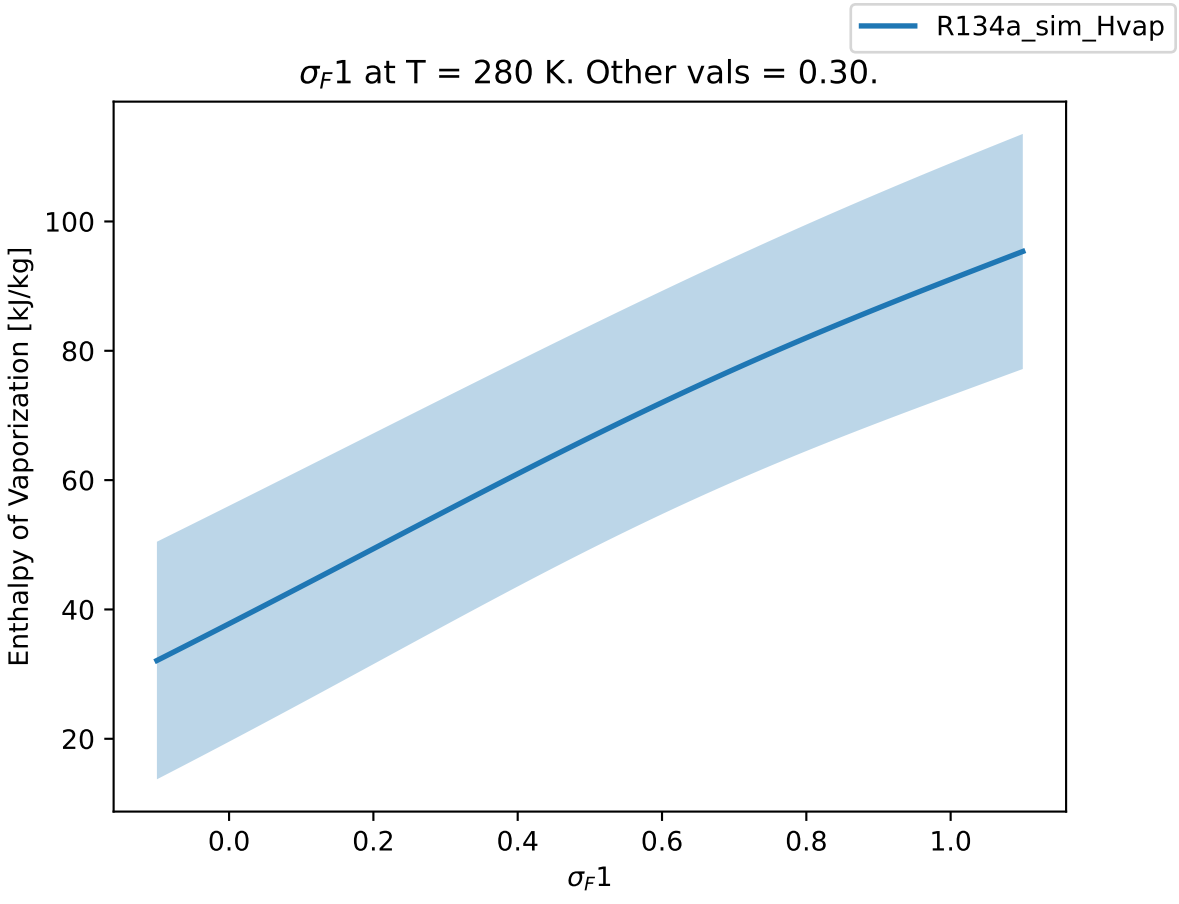

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
360
340
320
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

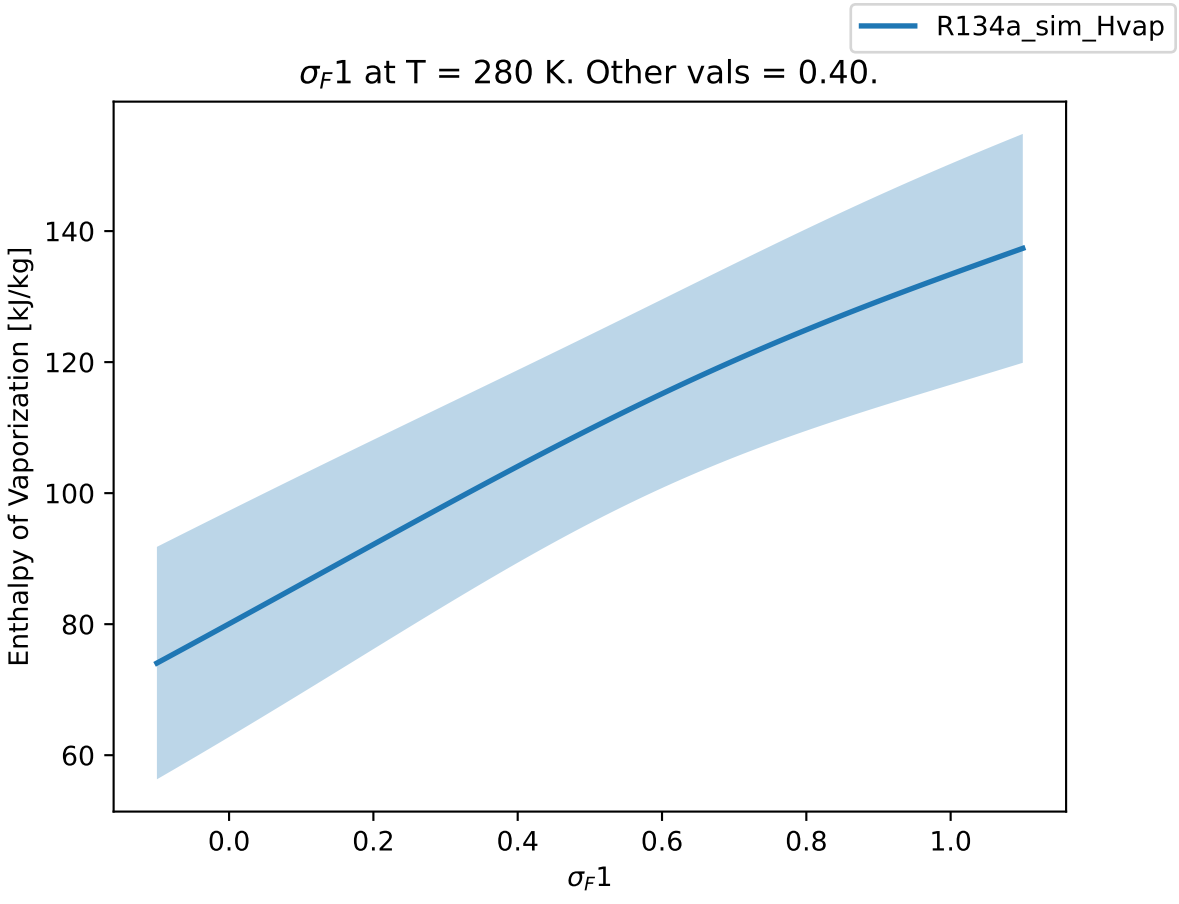

R134a_sim_Hvap
σ_C2 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
380
360
340
320
300
280
0.0
0.2
0.4
0.6
0.8
1.0
σ_C2

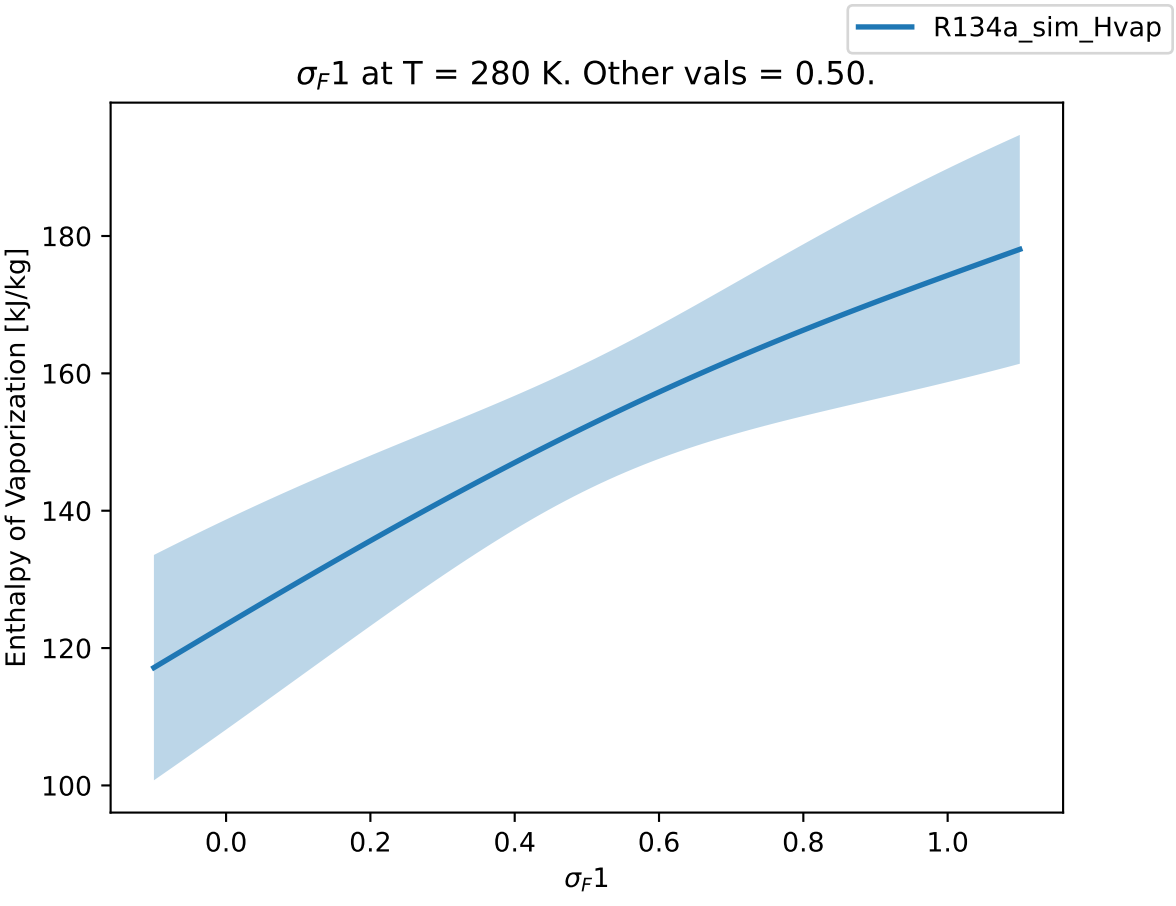

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

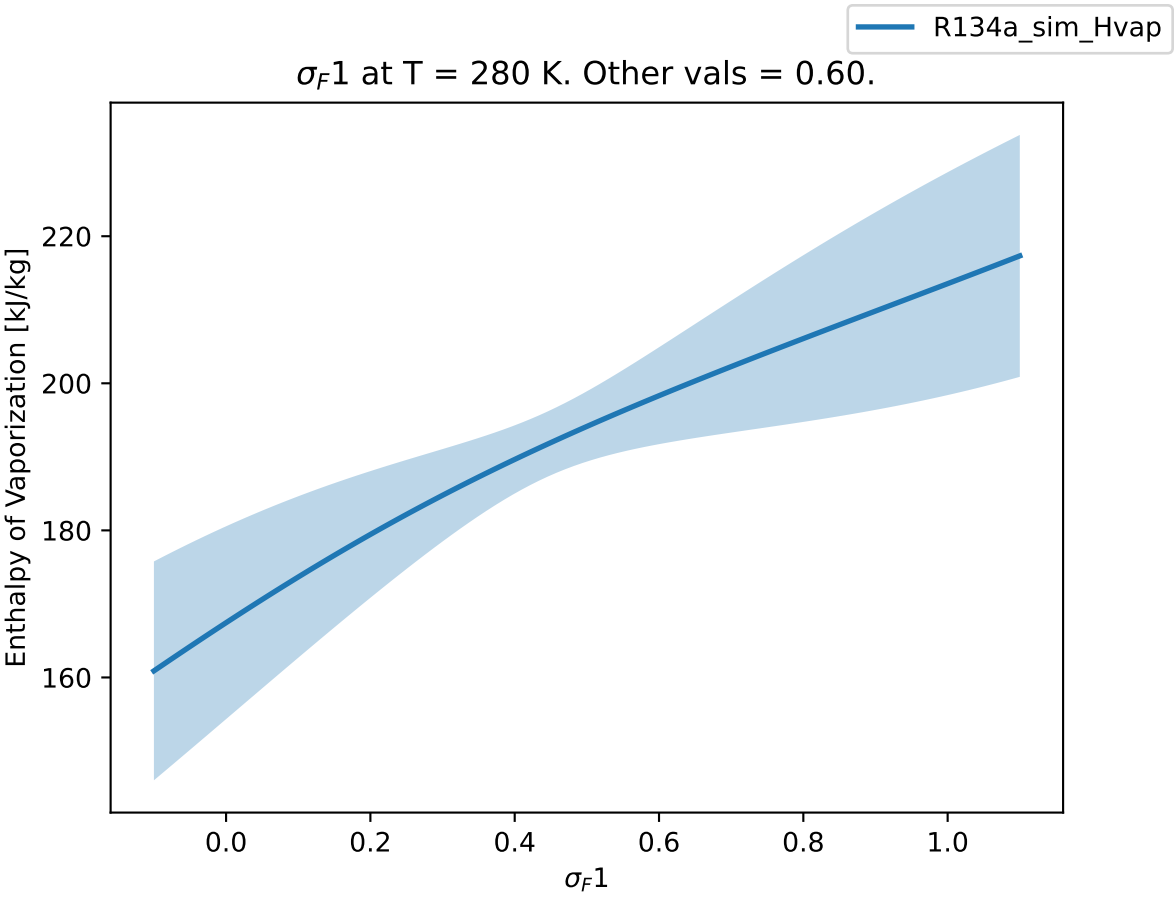

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

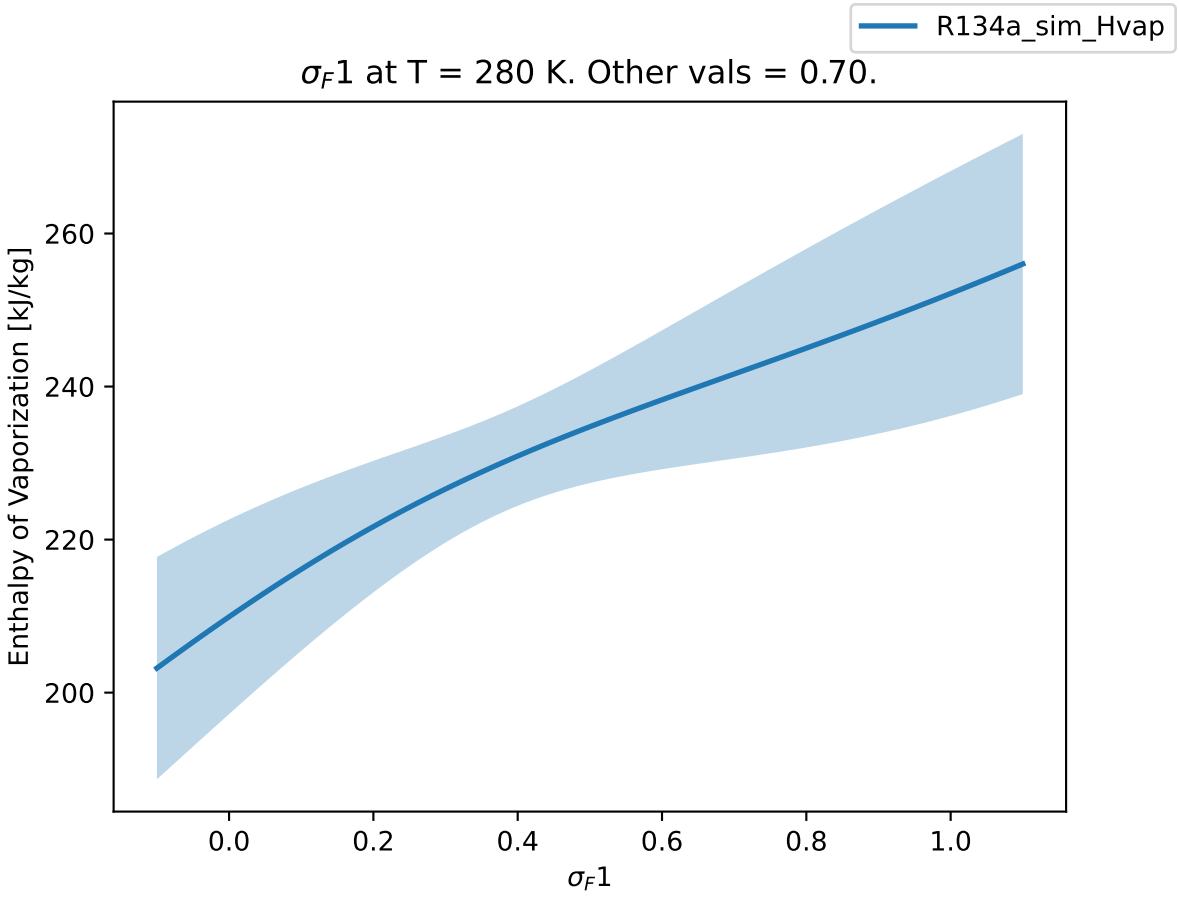

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

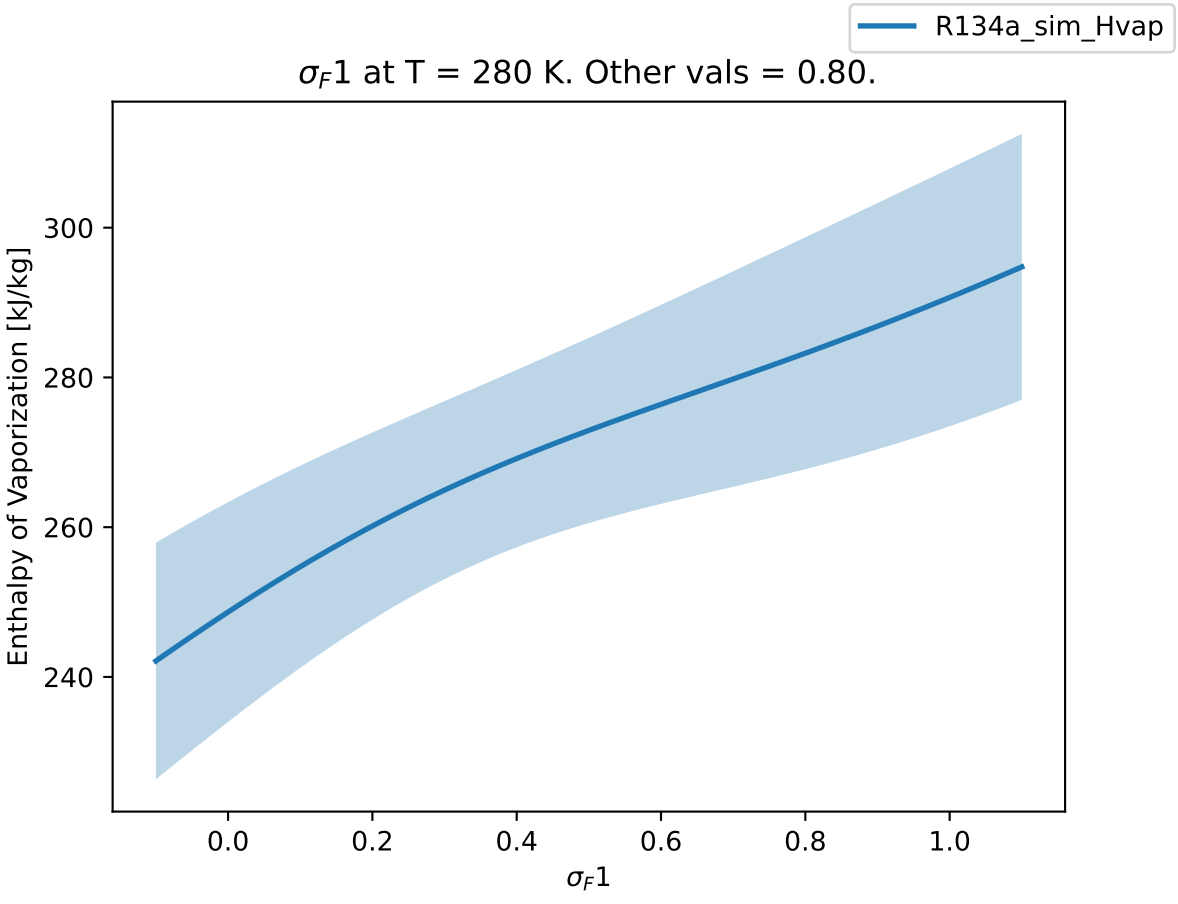

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

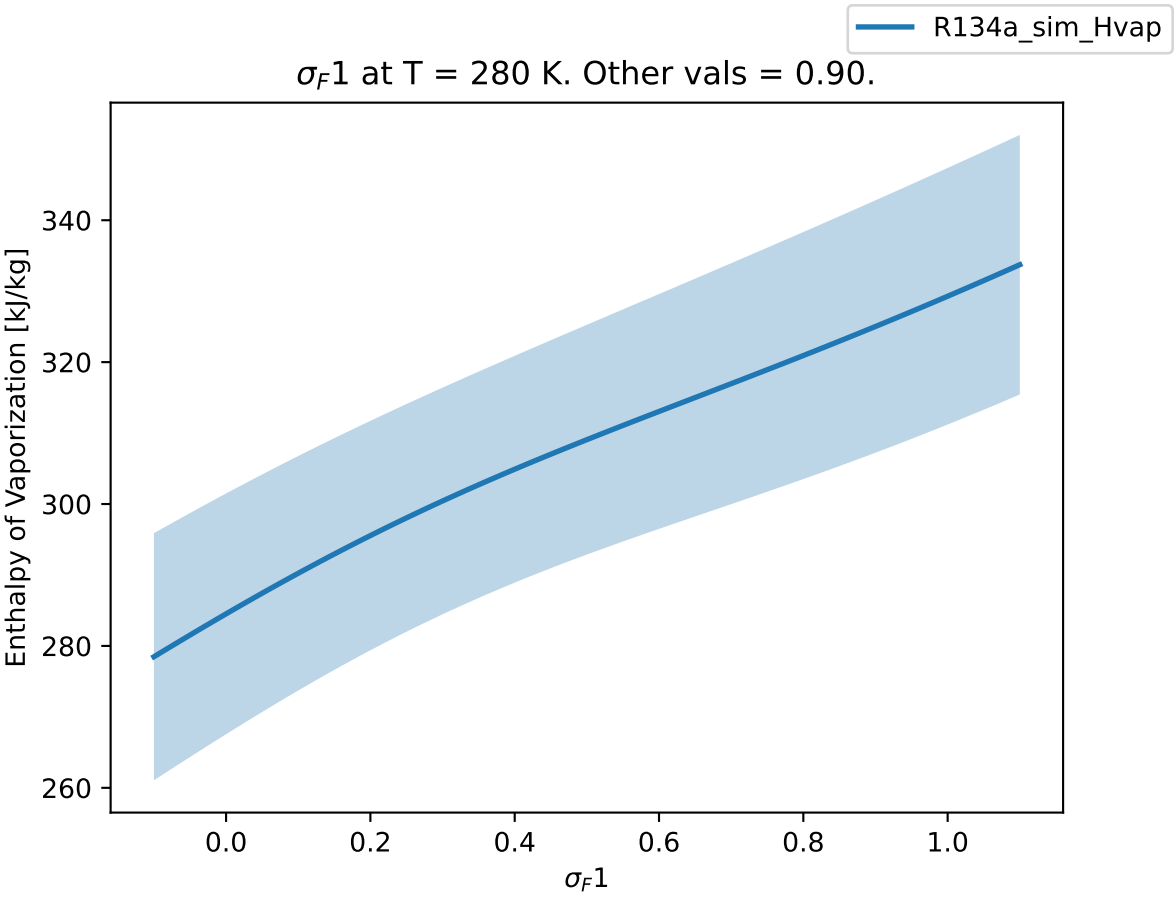

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

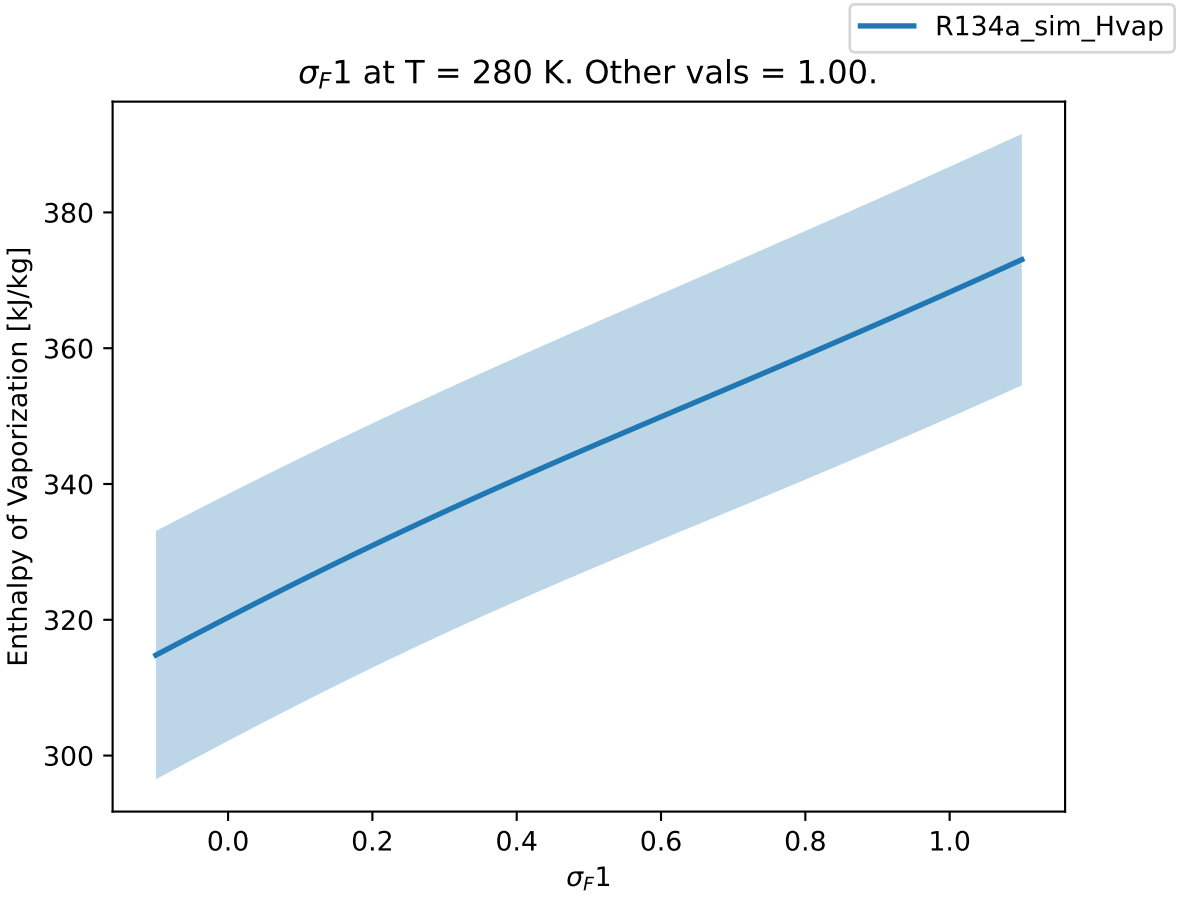

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

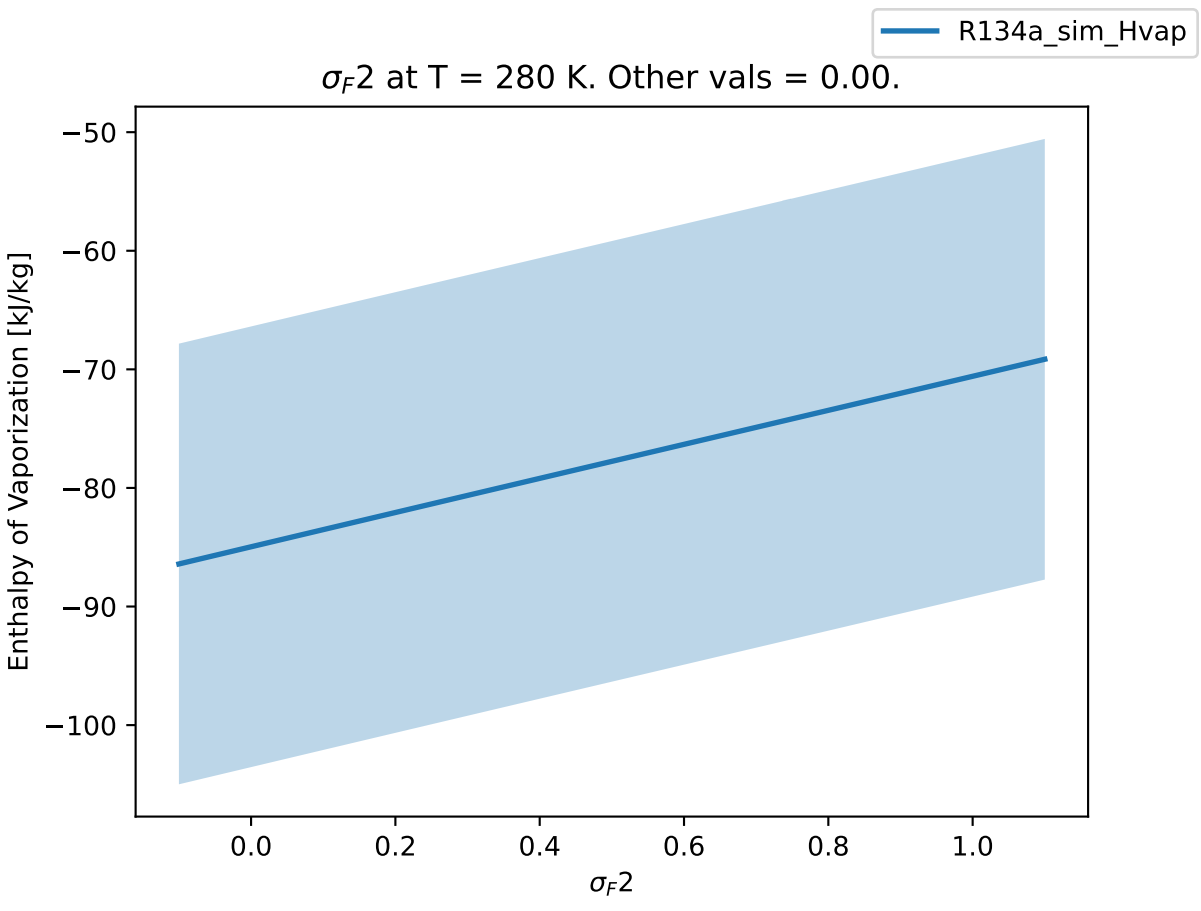

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
220
200
180
160
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

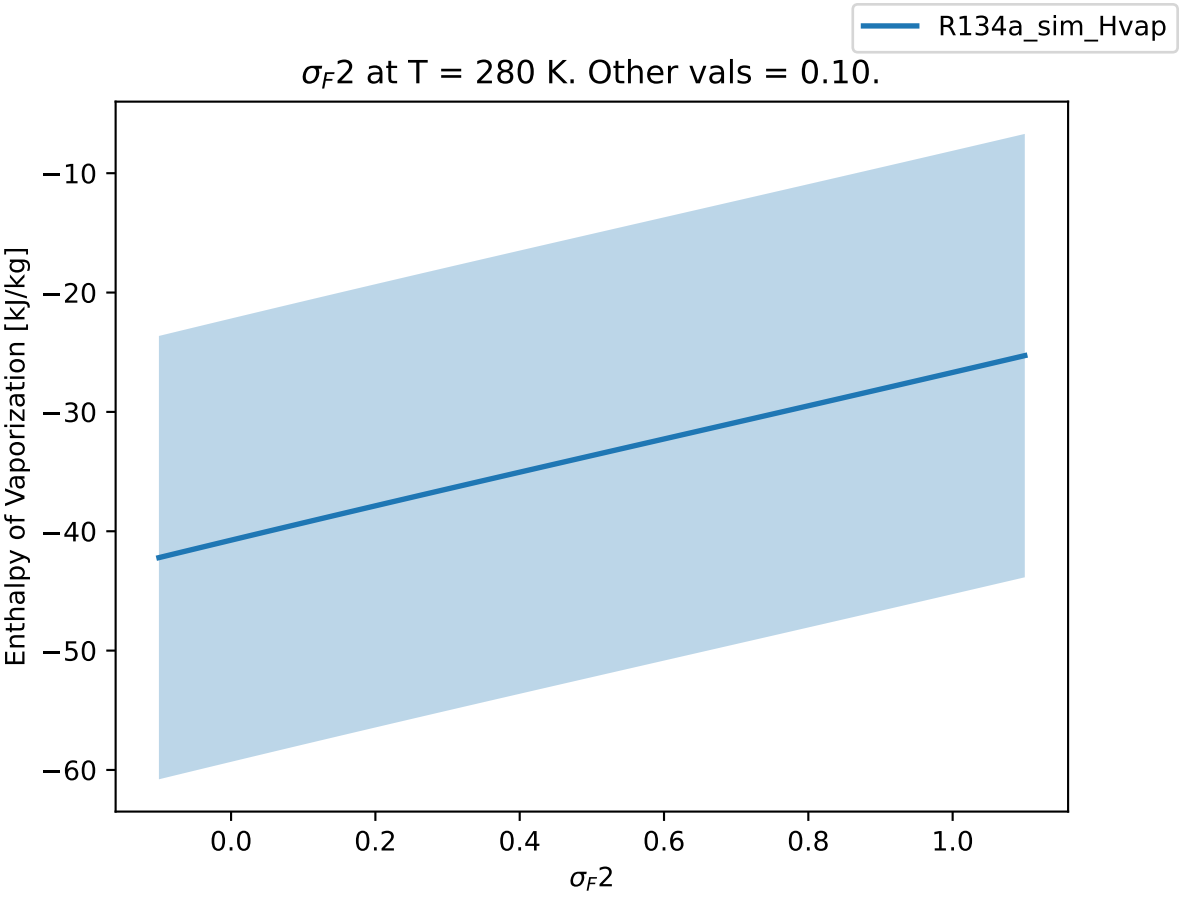

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
260
240
220
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

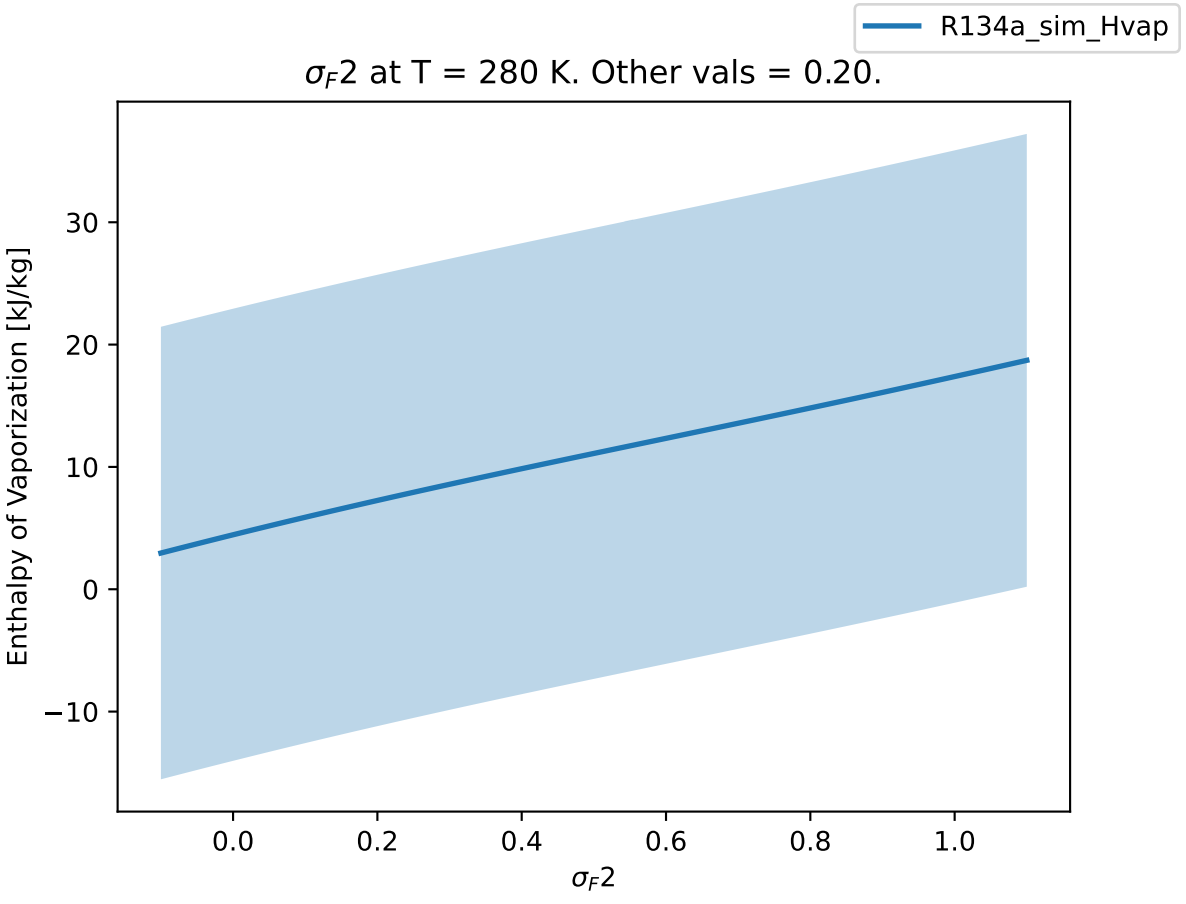

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

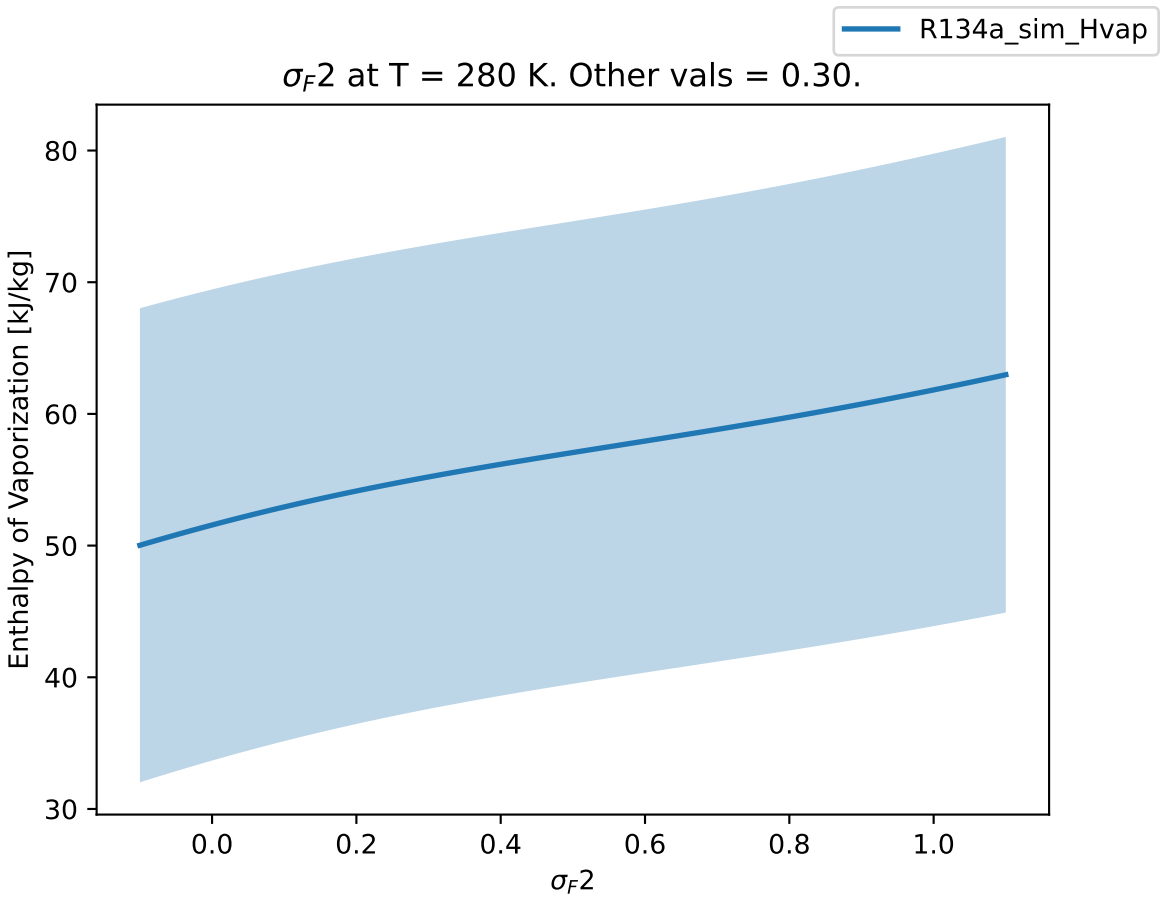

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
340
320
300
280
260
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

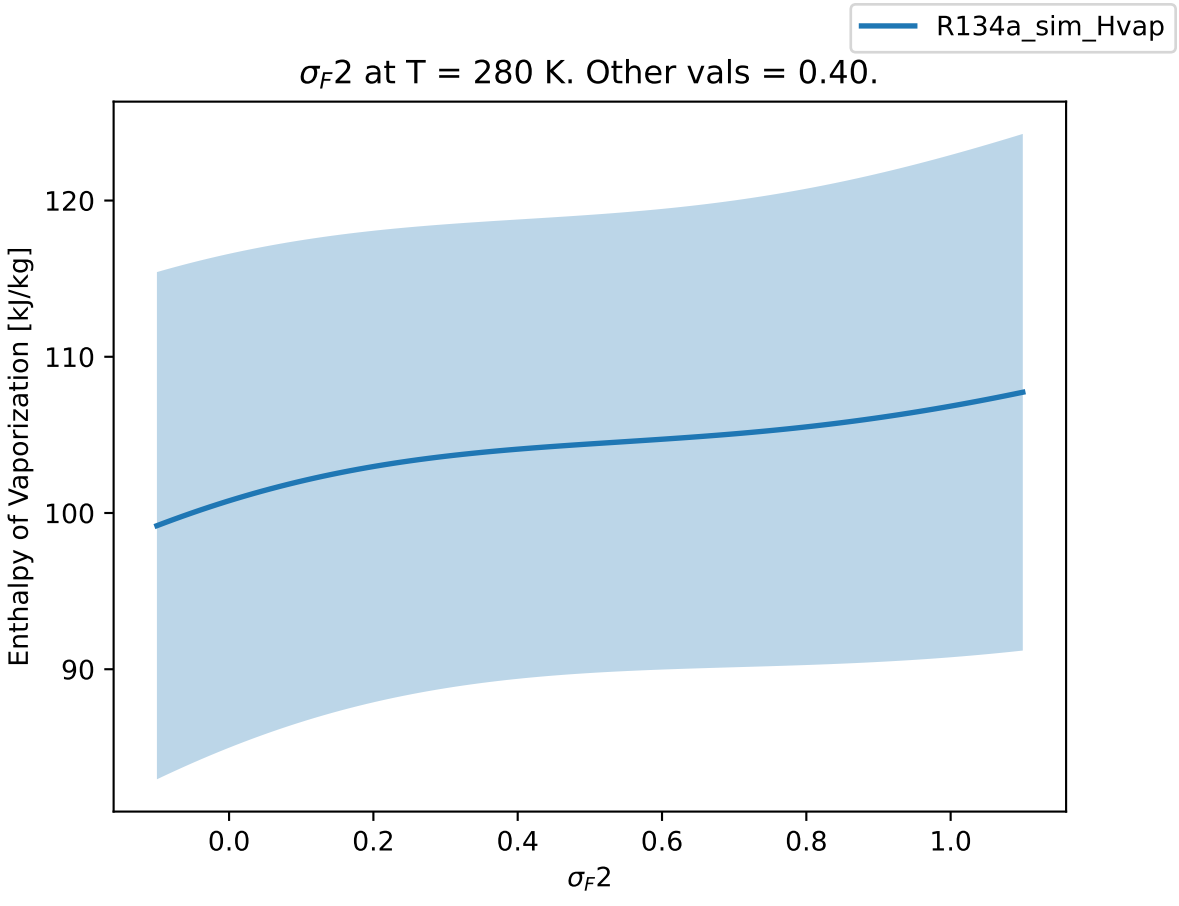

R134a_sim_Hvap
σ_F1 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
380
360
340
320
300
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

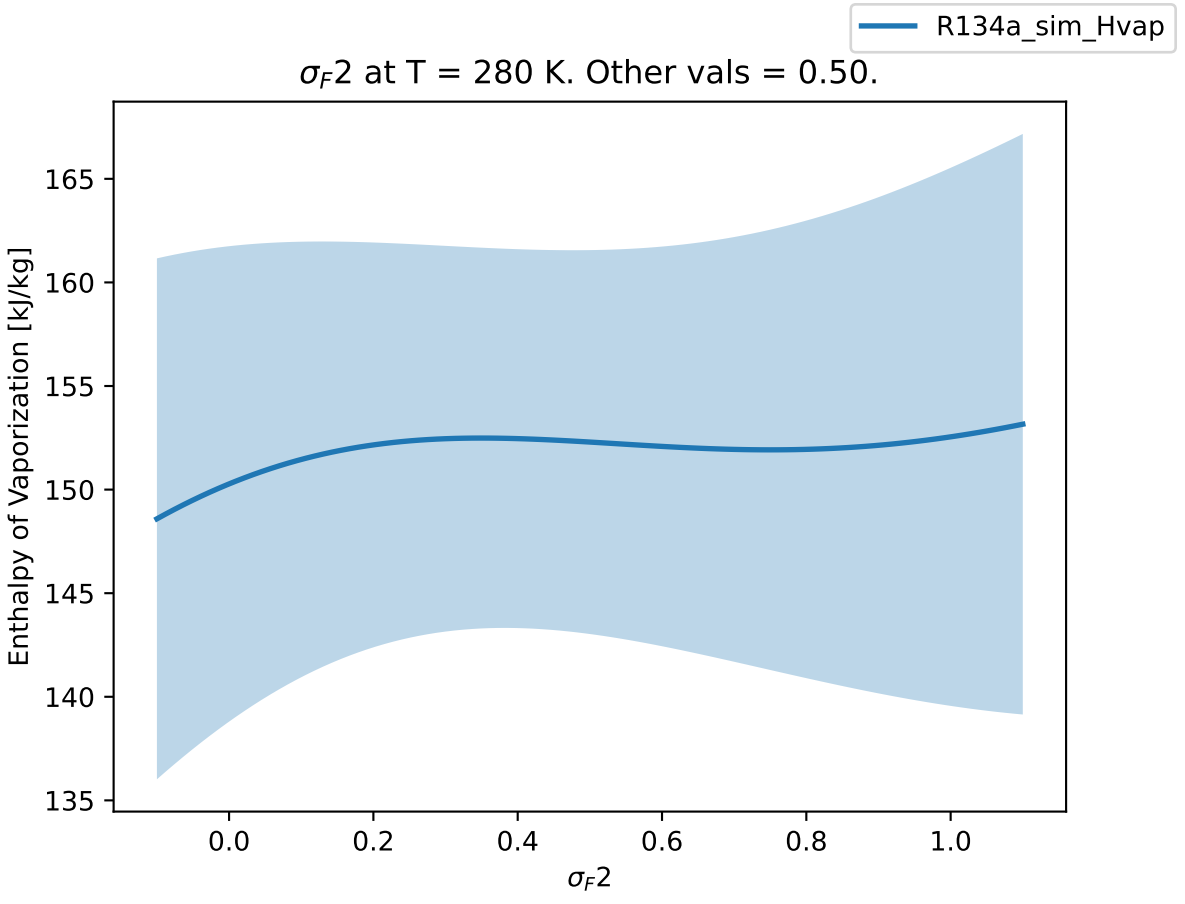

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−50
−60
−70
−80
−90
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

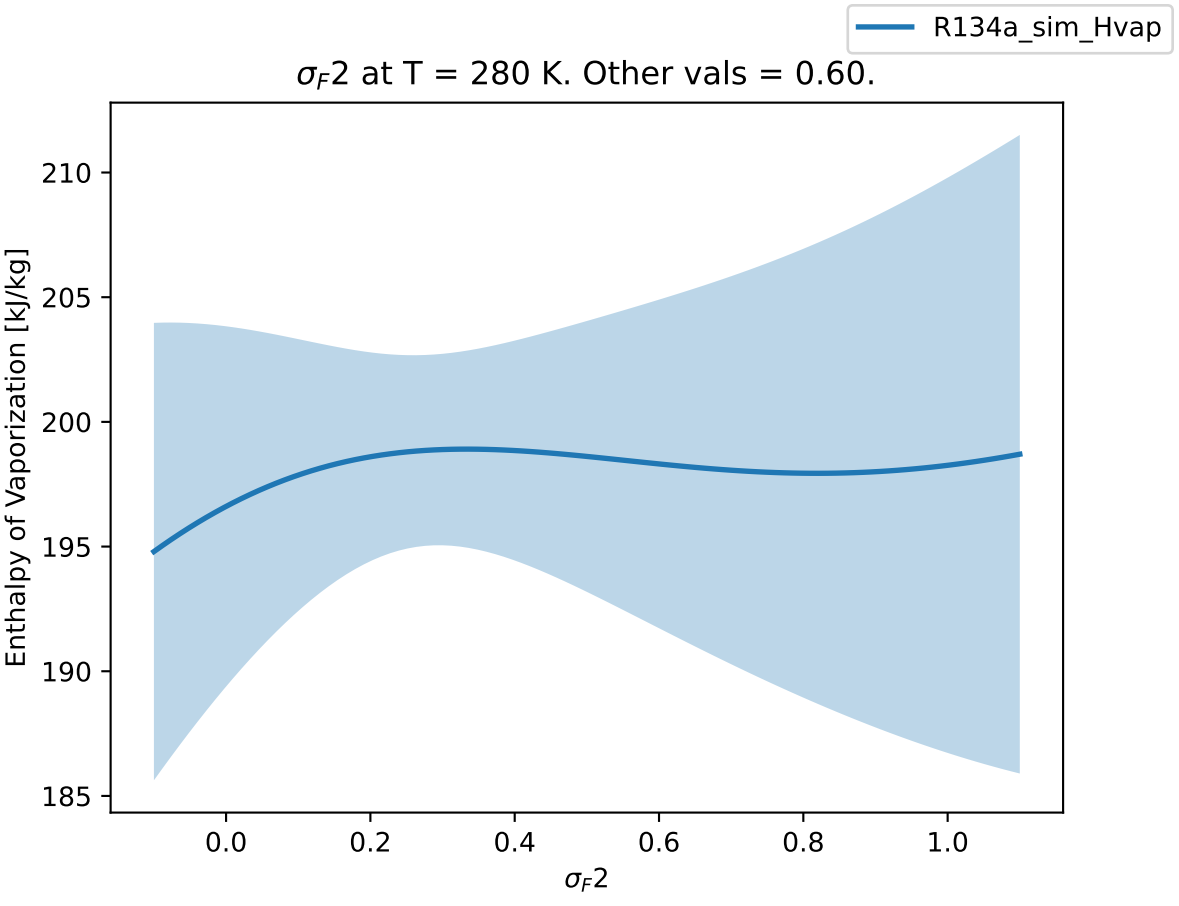

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
−10
−20
−30
−40
−50
−60
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

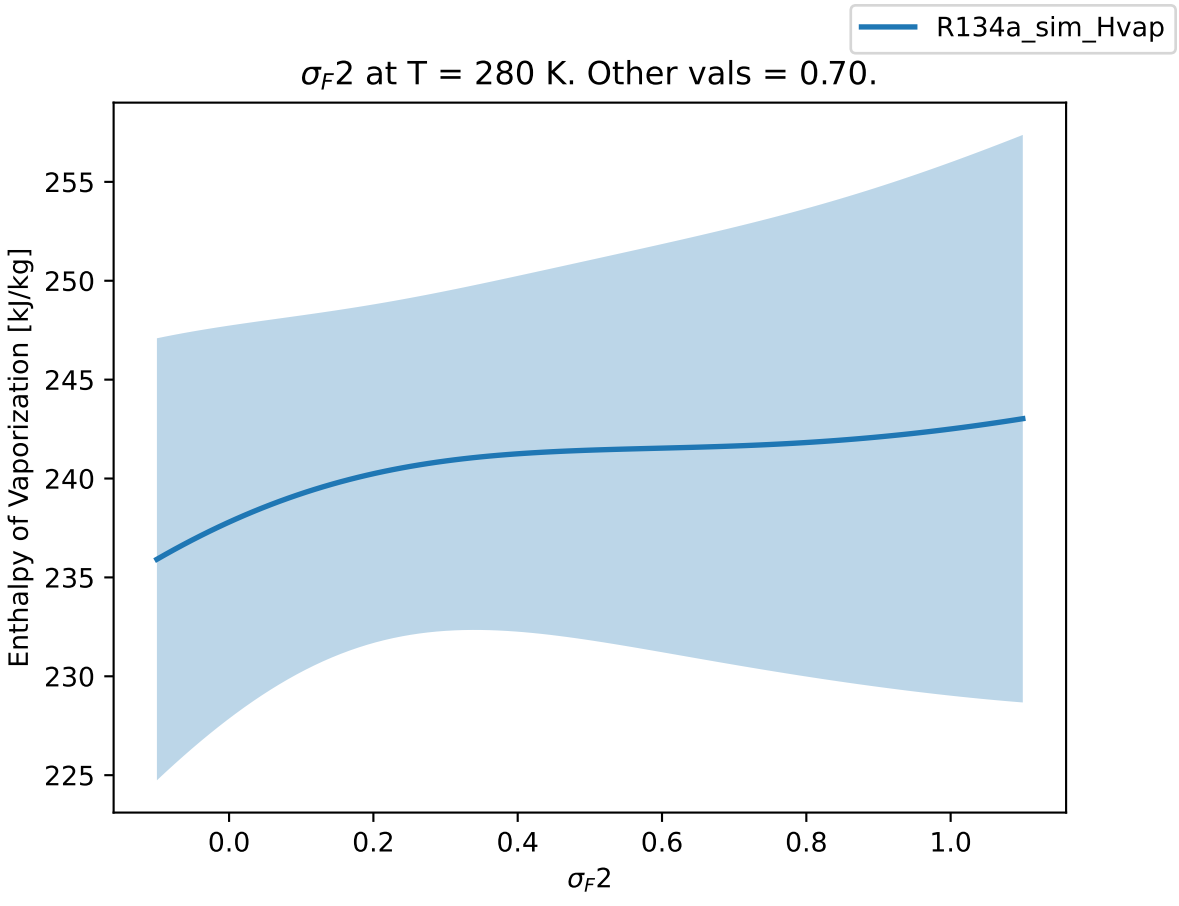

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
30
20
10
0
−10
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

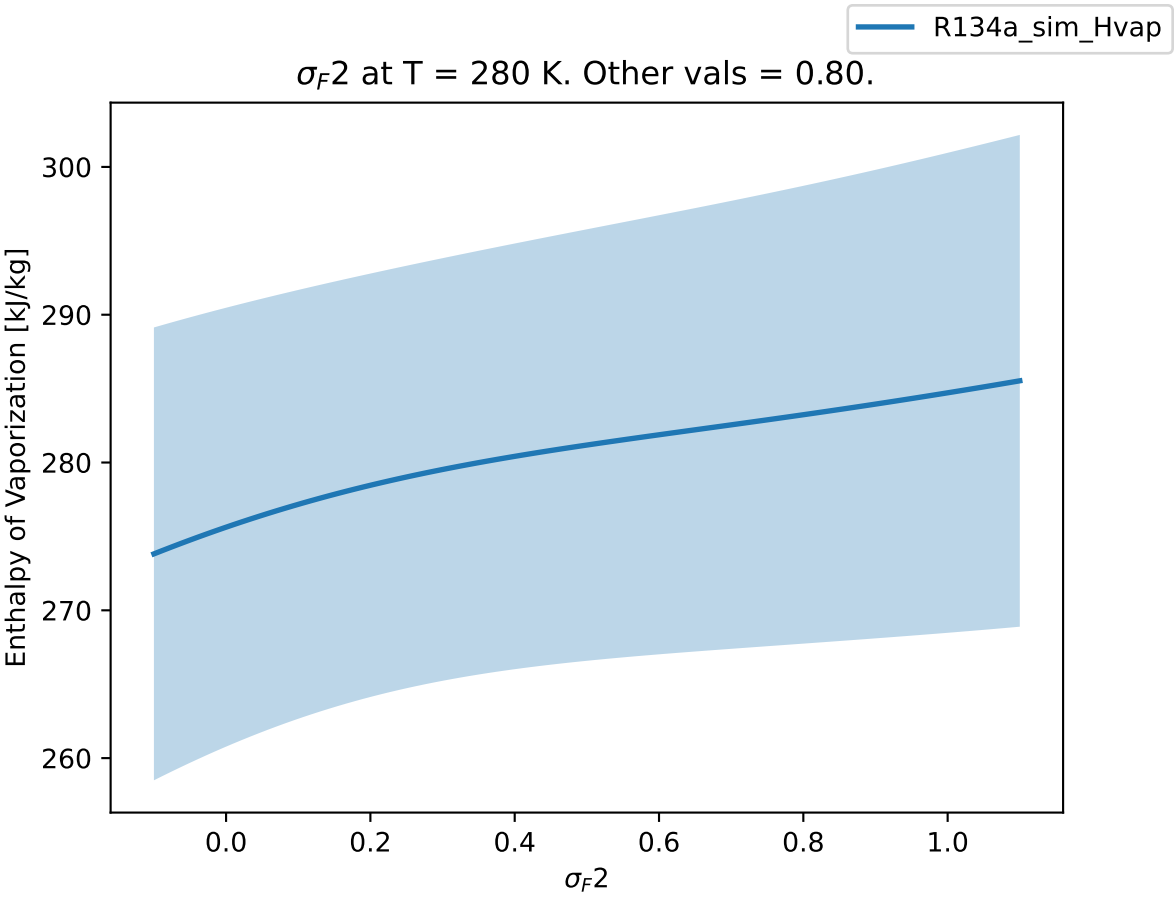

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

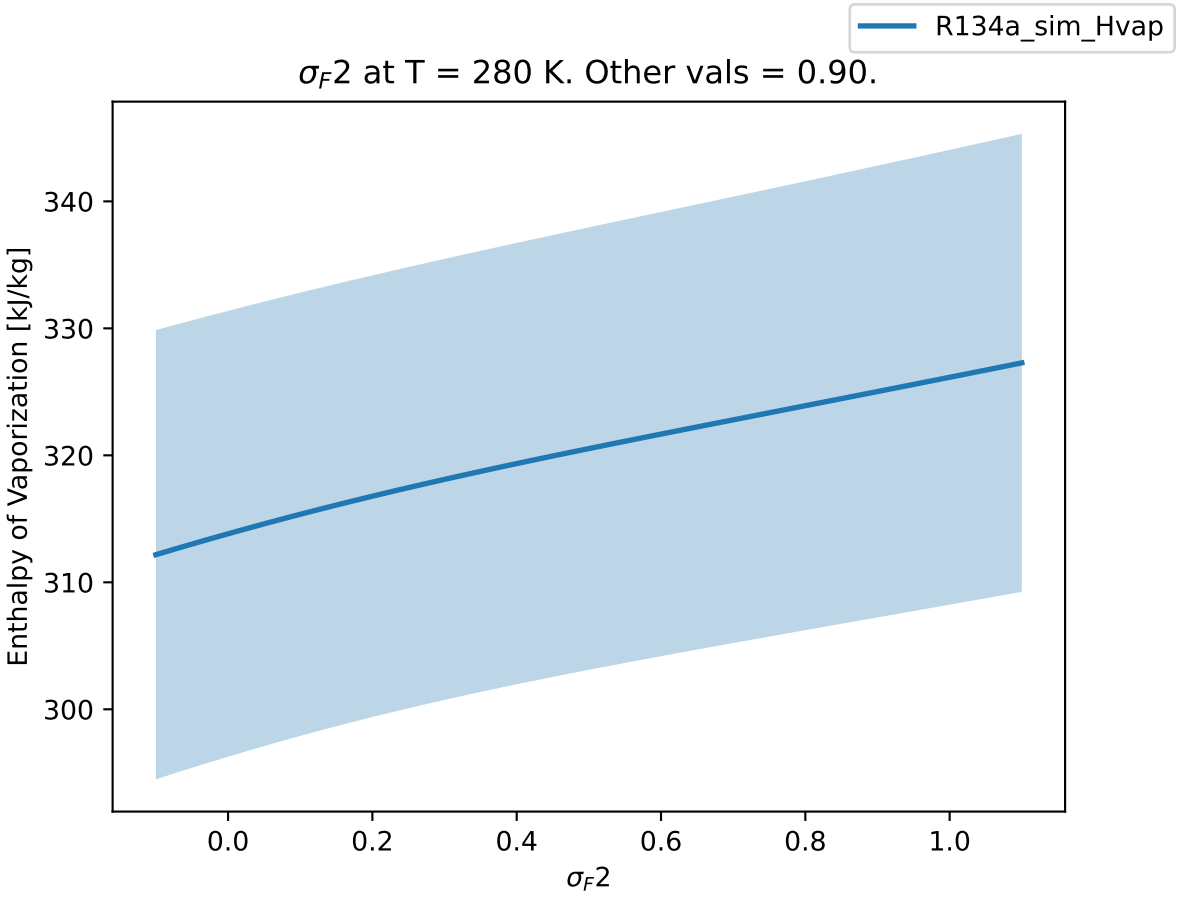

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
120
110
100
90
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

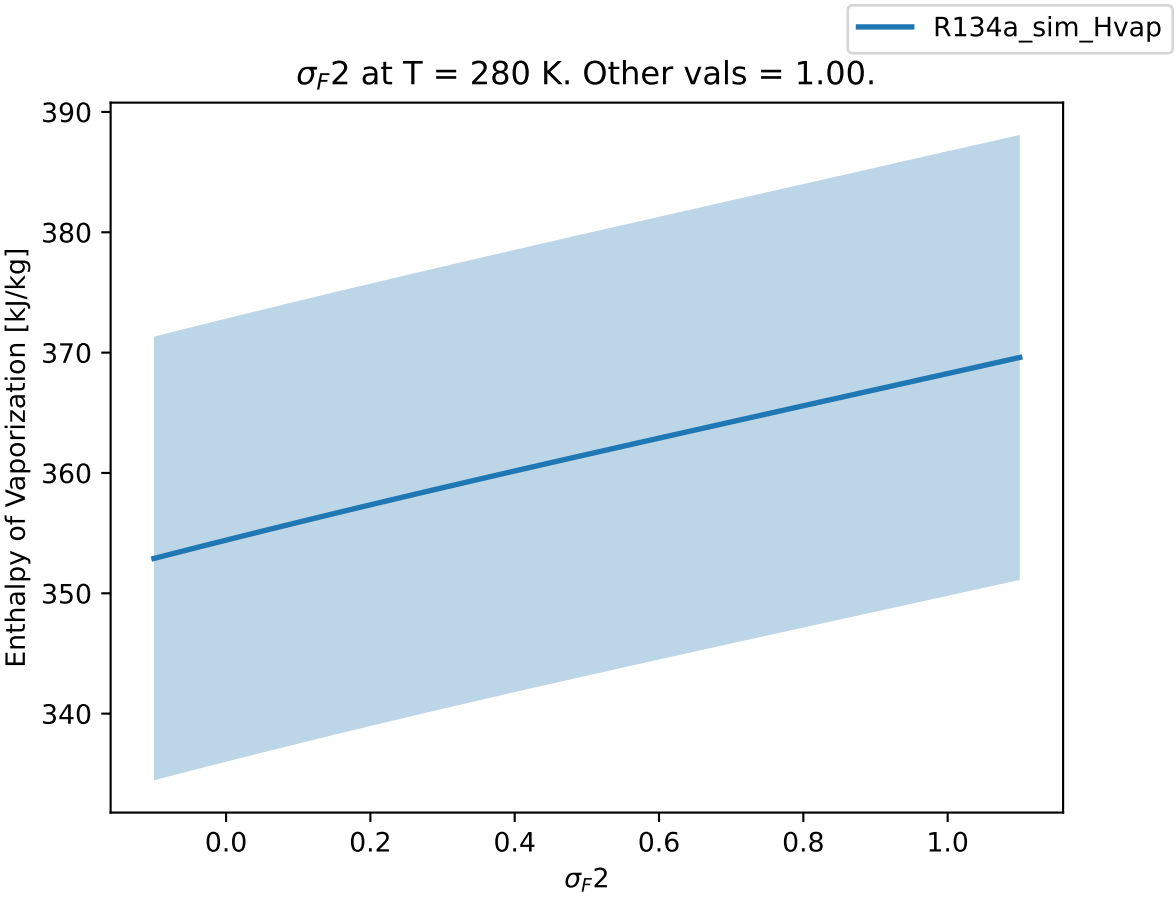

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
165
160
155
150
145
140
135
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

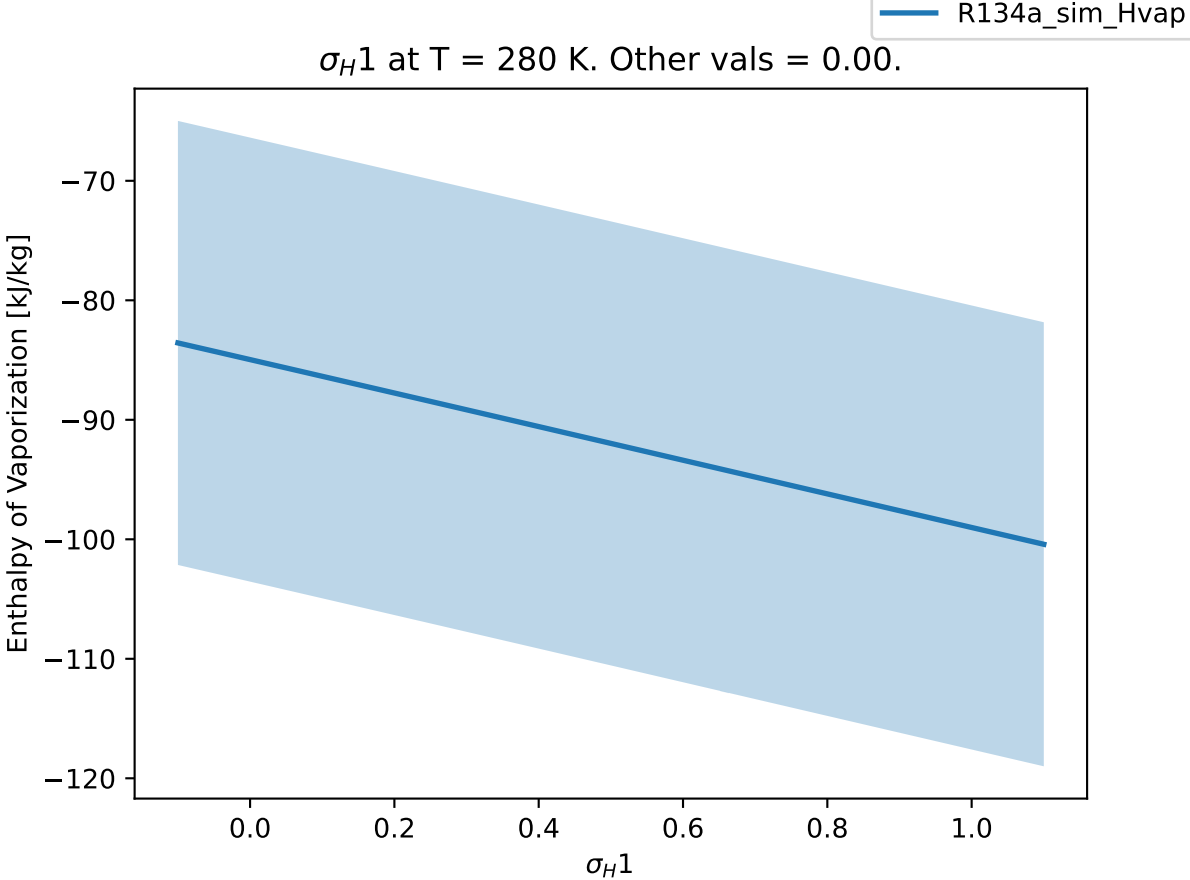

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
210
205
200
195
190
185
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

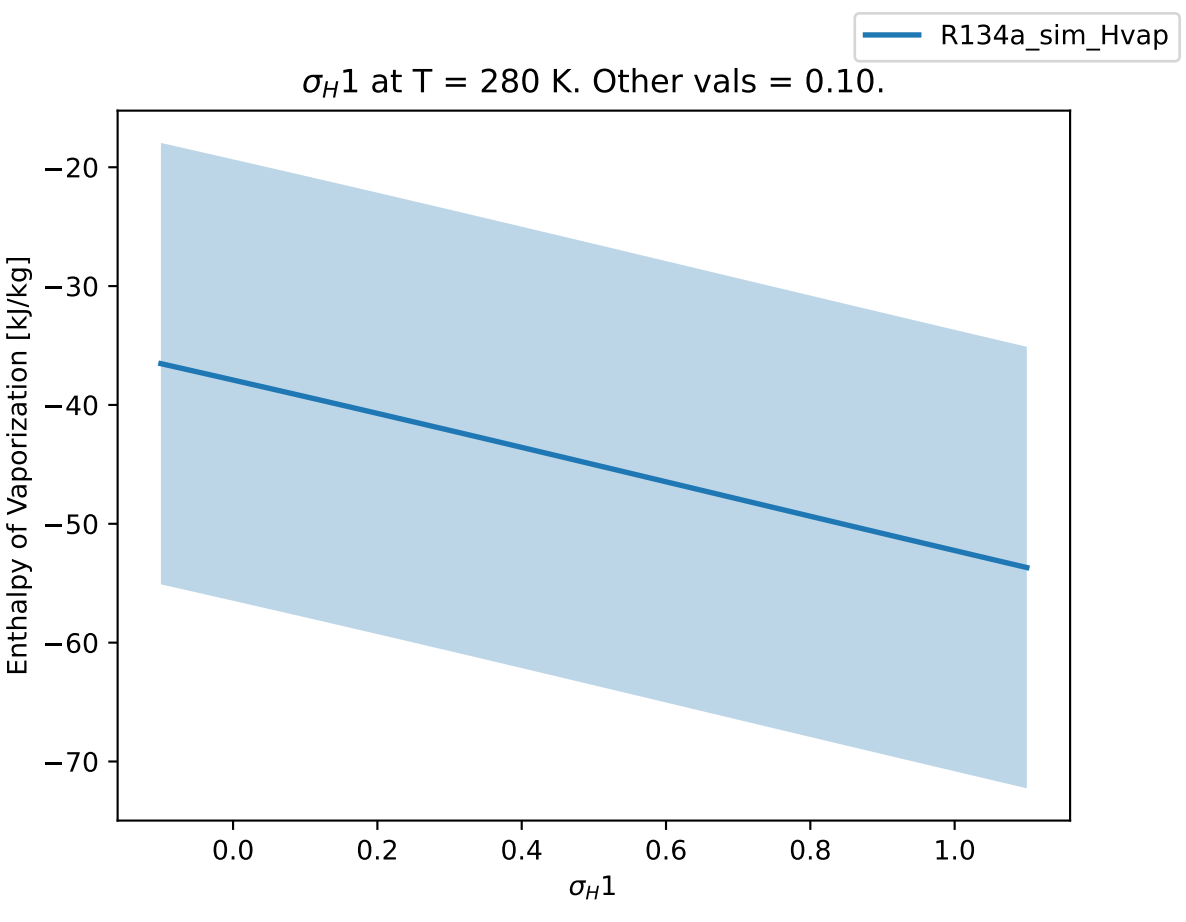

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
255
250
245
240
235
230
225
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

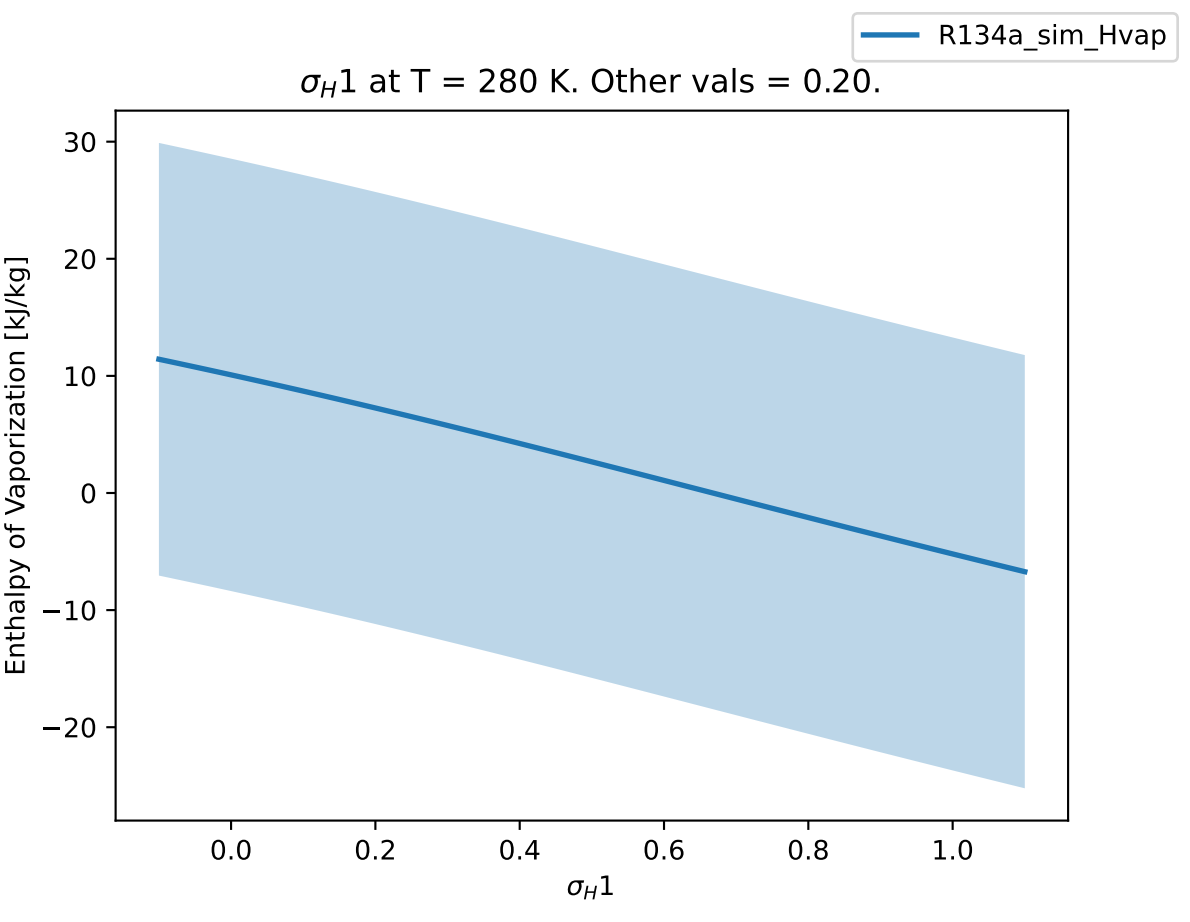

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
300
290
280
270
260
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

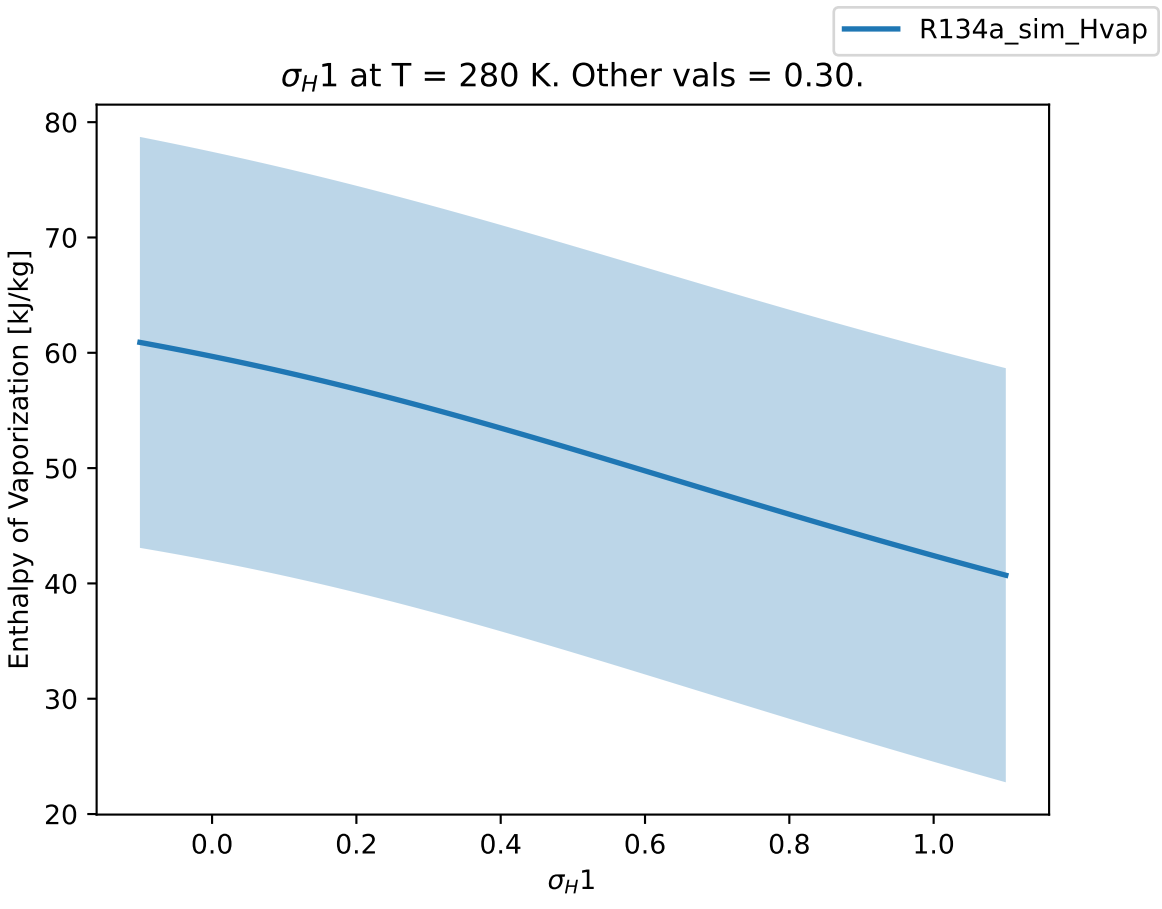

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
340
330
320
310
300
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

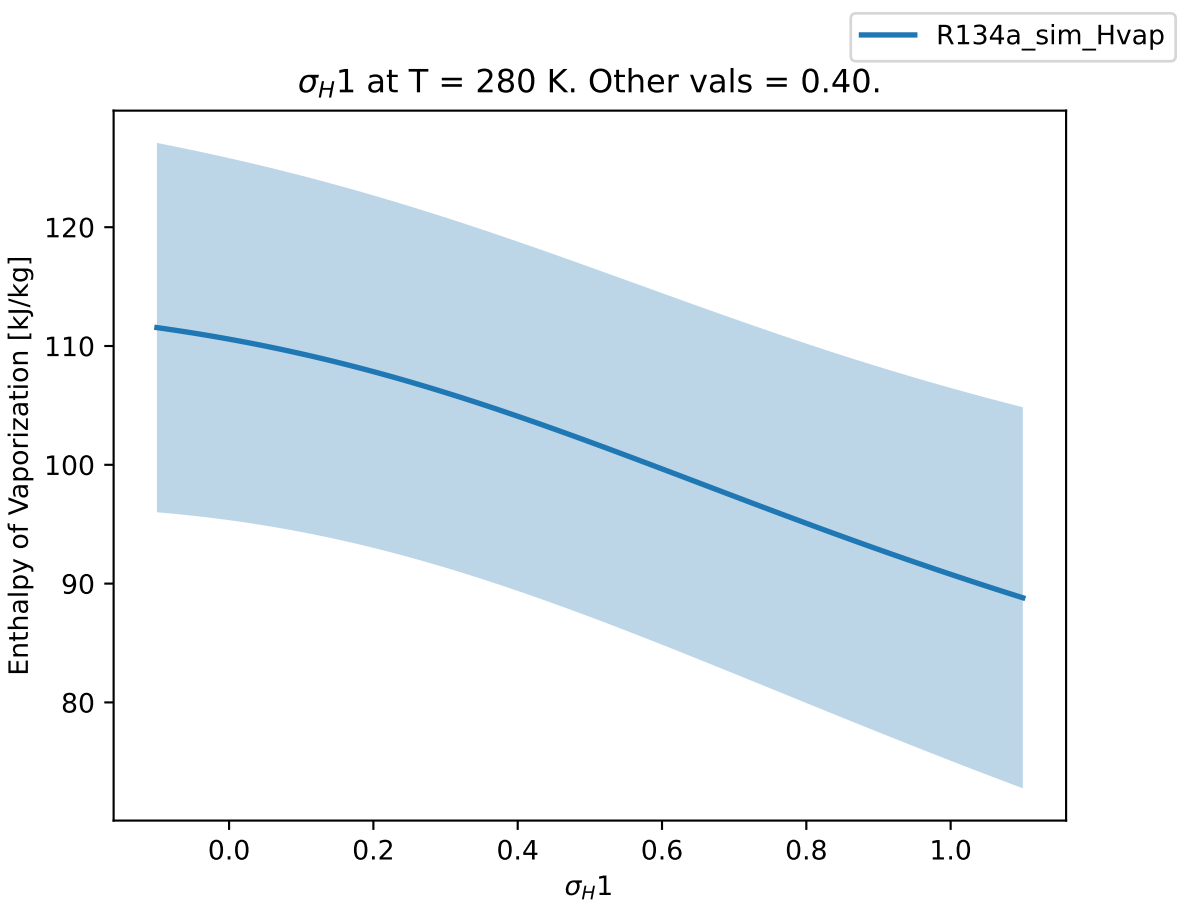

R134a_sim_Hvap
σ_F2 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
390
380
370
360
350
340
0.0
0.2
0.4
0.6
0.8
1.0
σ_F2

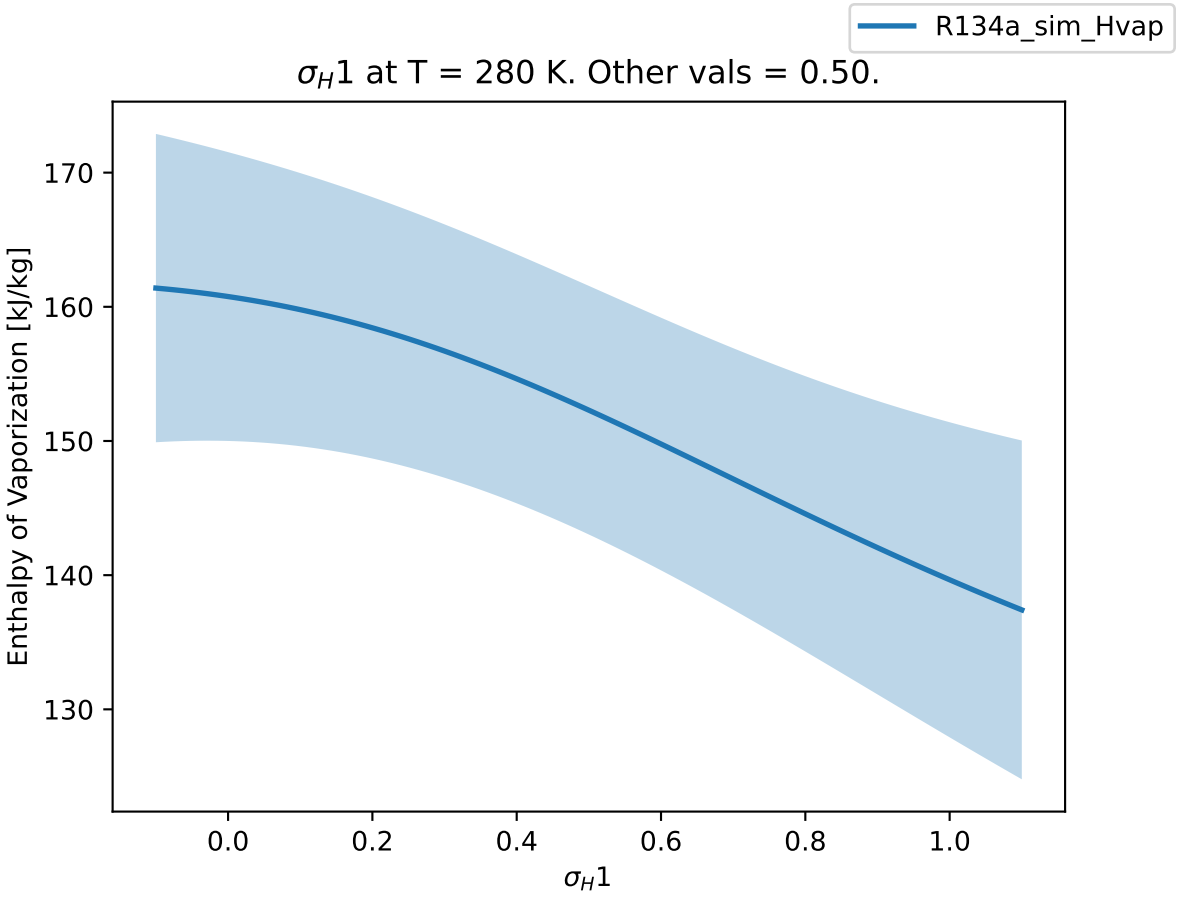

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−70
−80
−90
−100
−110
−120
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

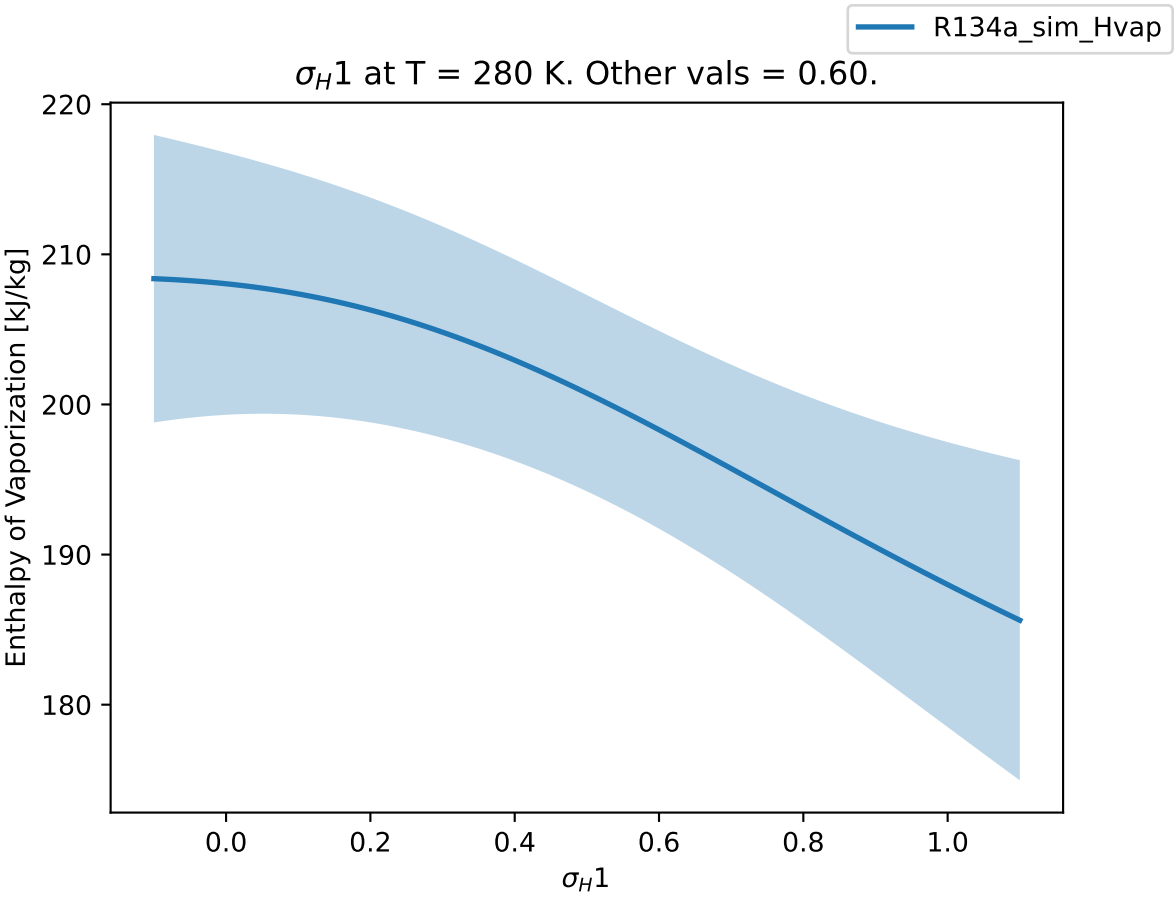

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
−20
−30
−40
−50
−60
−70
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

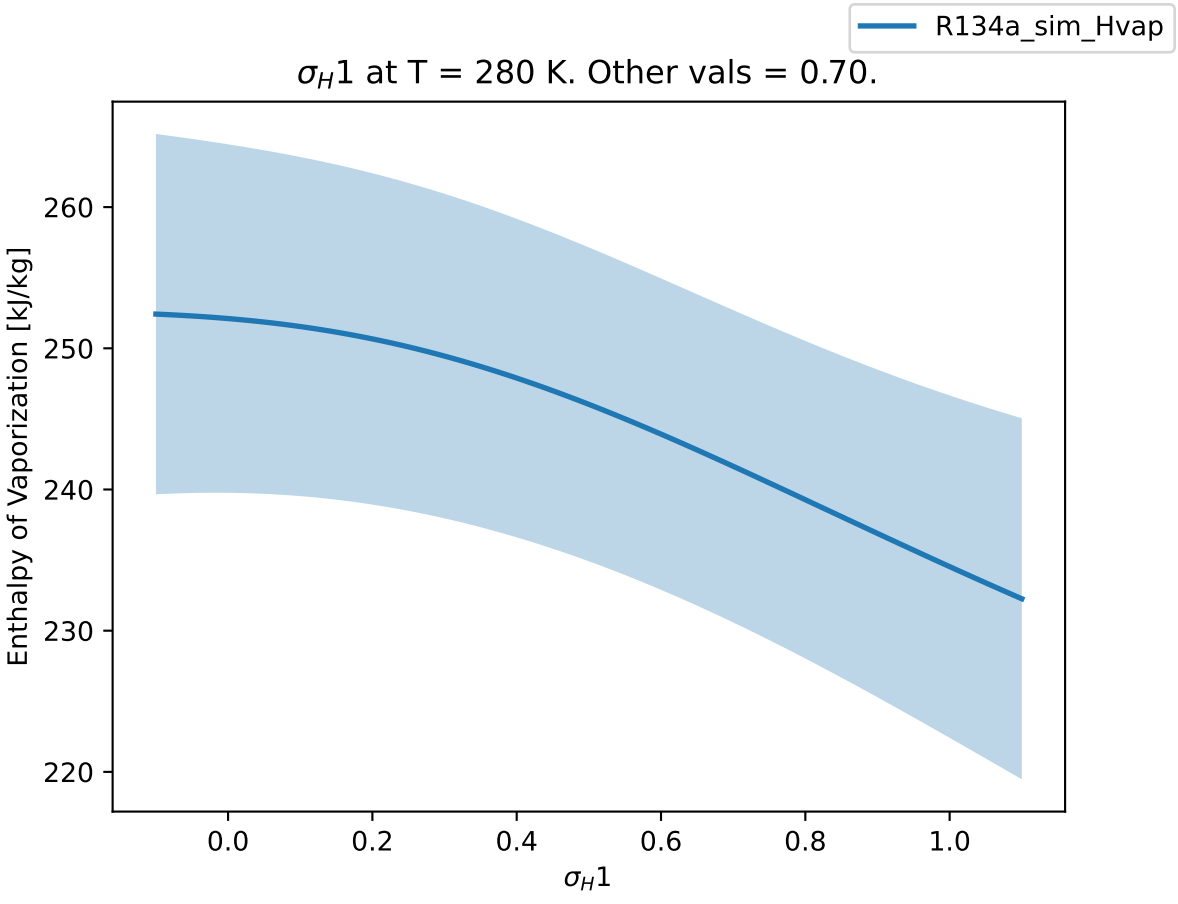

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
30
20
10
0
−10
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

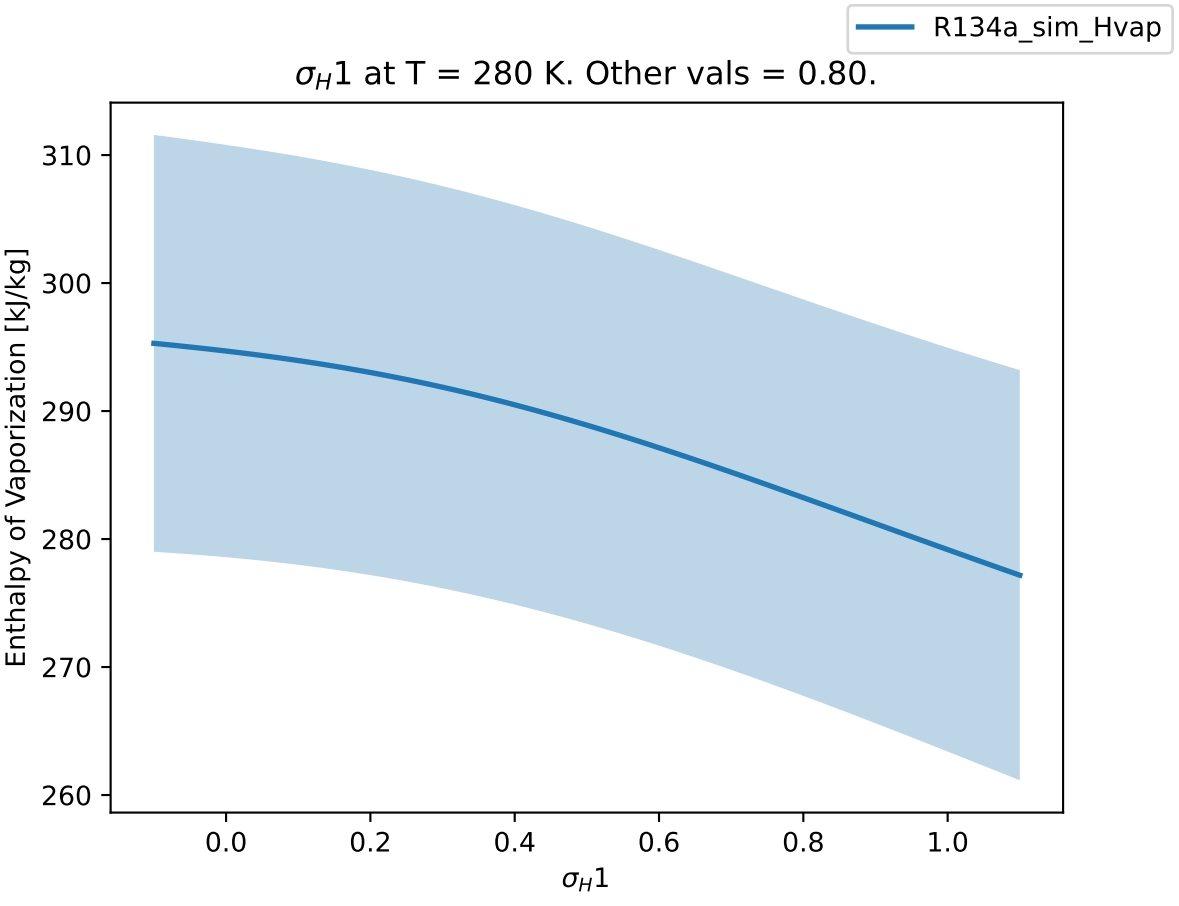

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
80
70
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

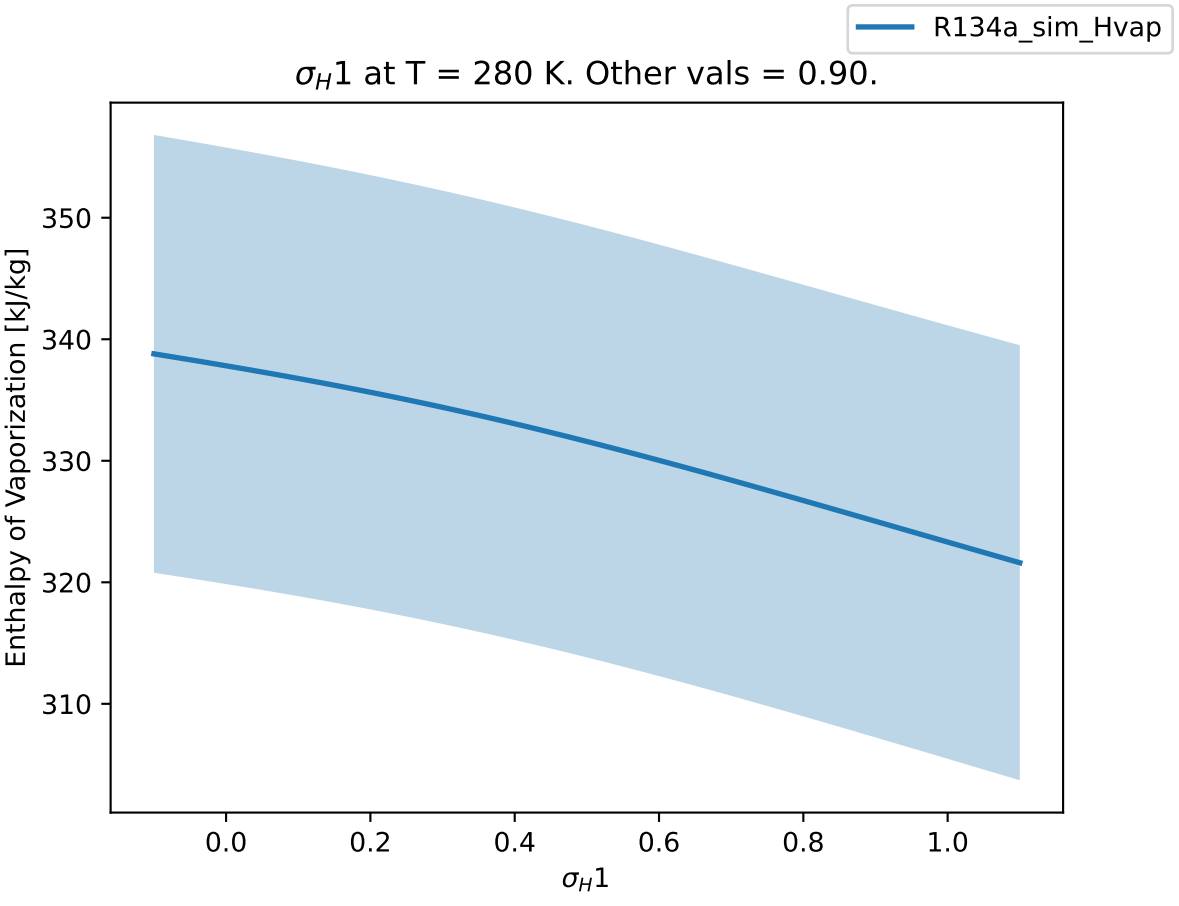

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
120
110
100
90
80
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

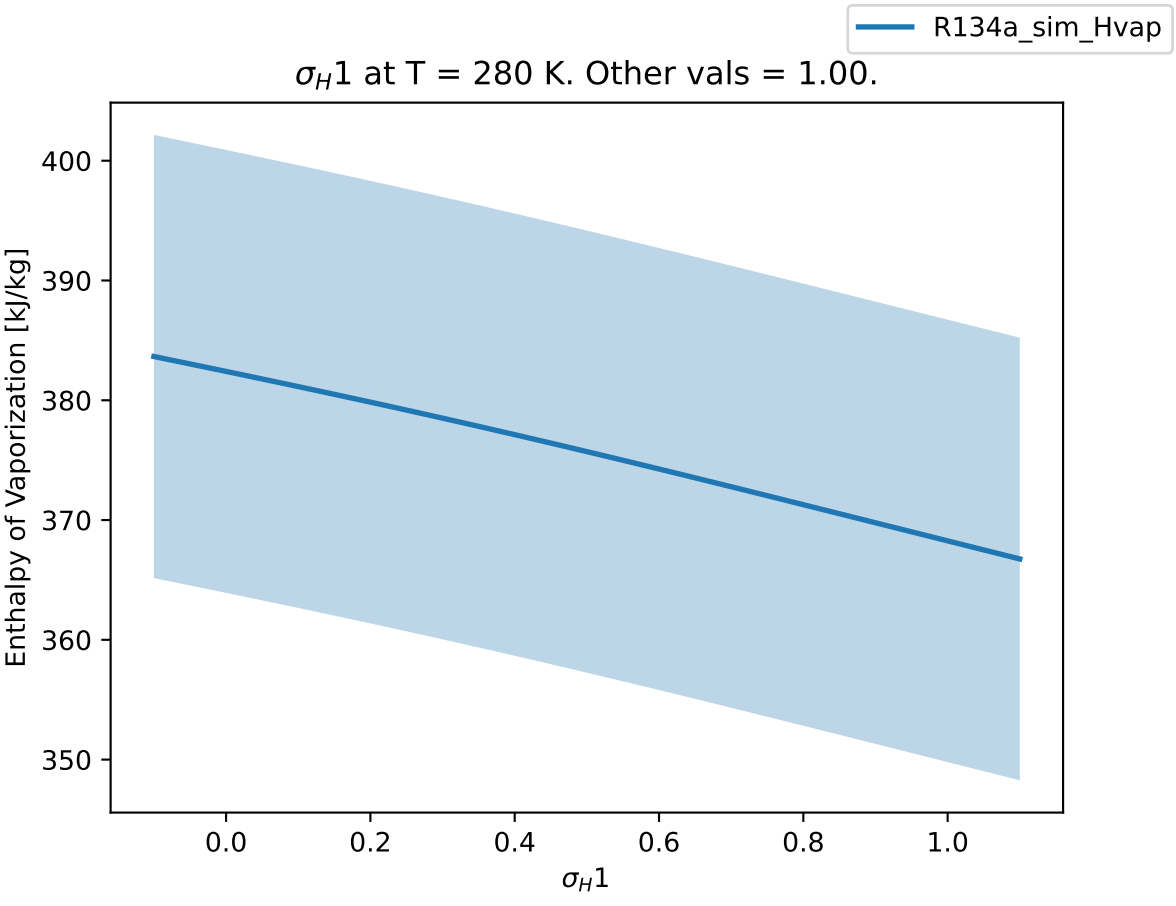

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
170
160
150
140
130
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

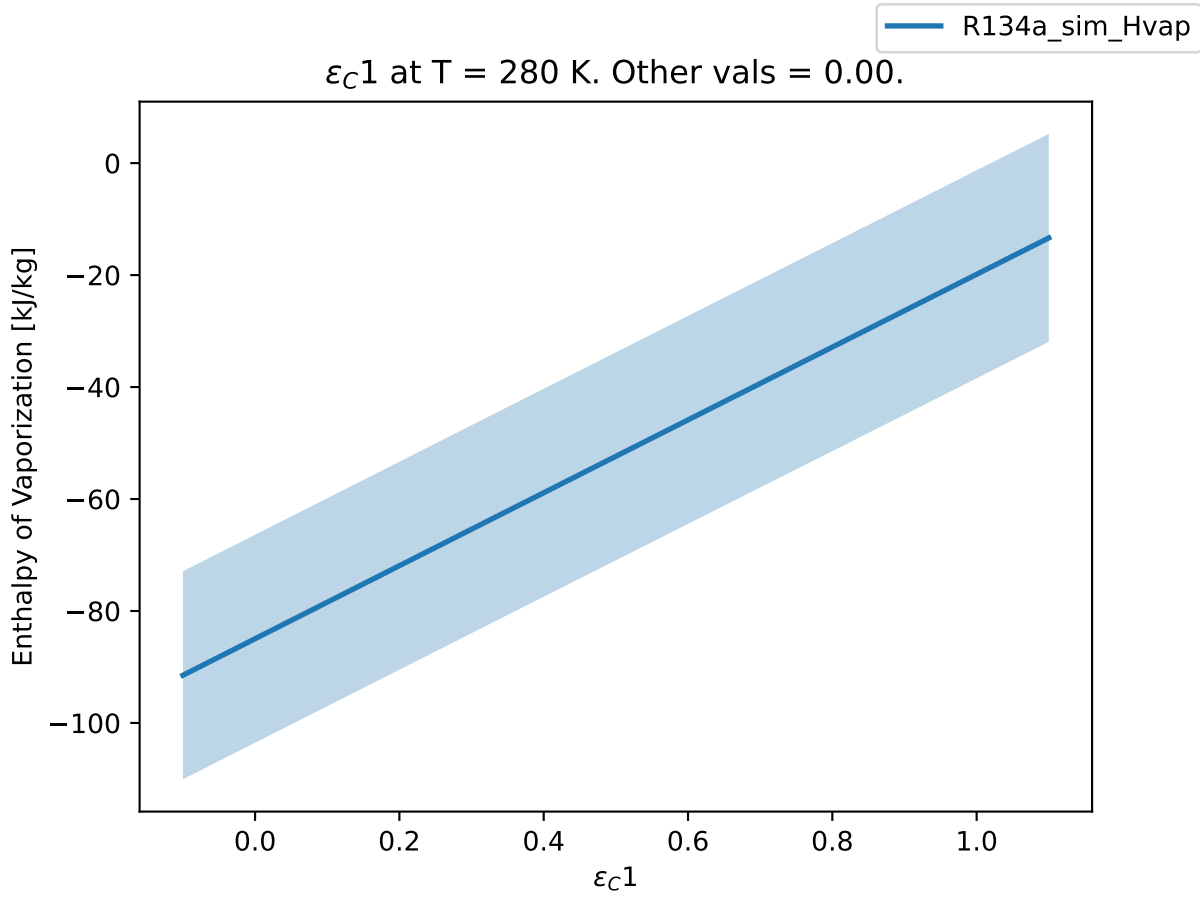

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.60.
220
210
200
190
180
Enthalpy of Vaporization [kJ/kg]
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

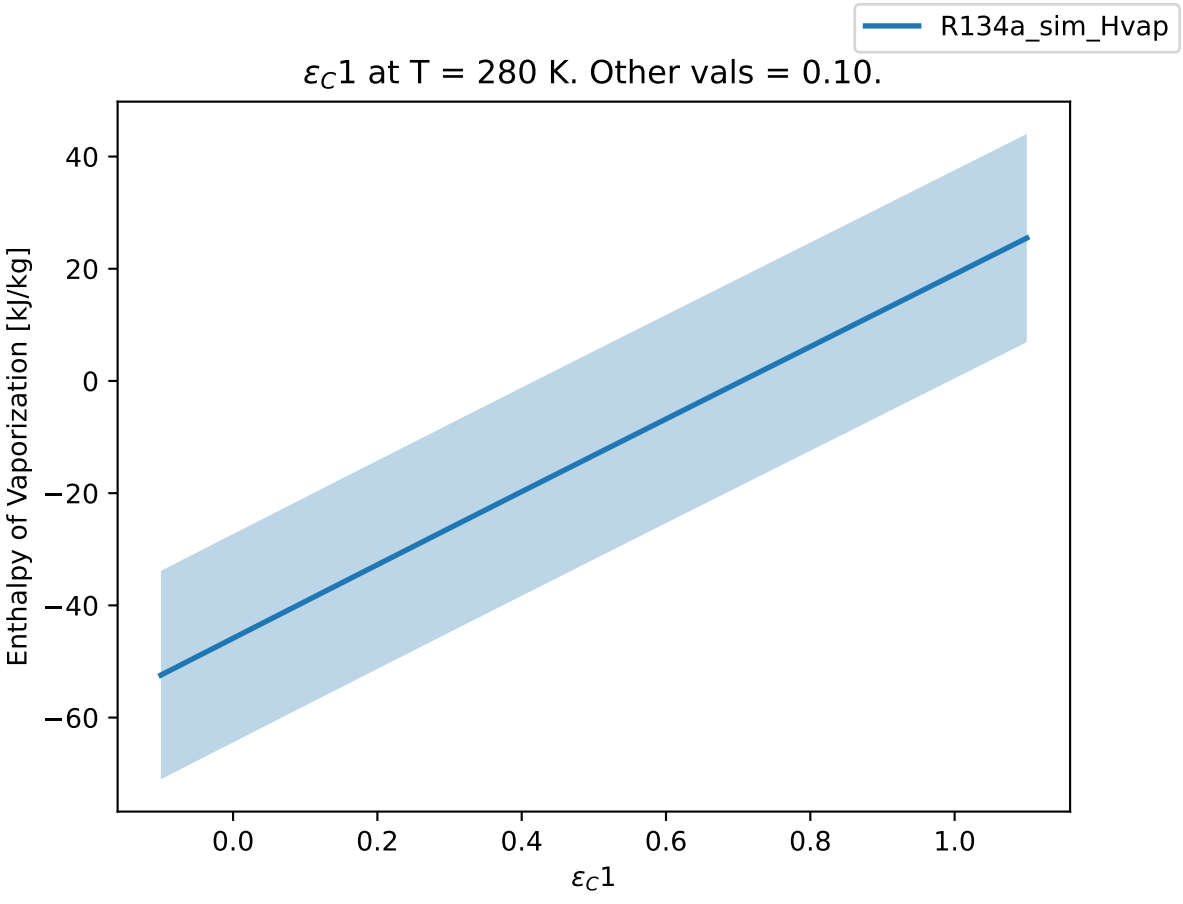

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
260
250
240
230
220
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

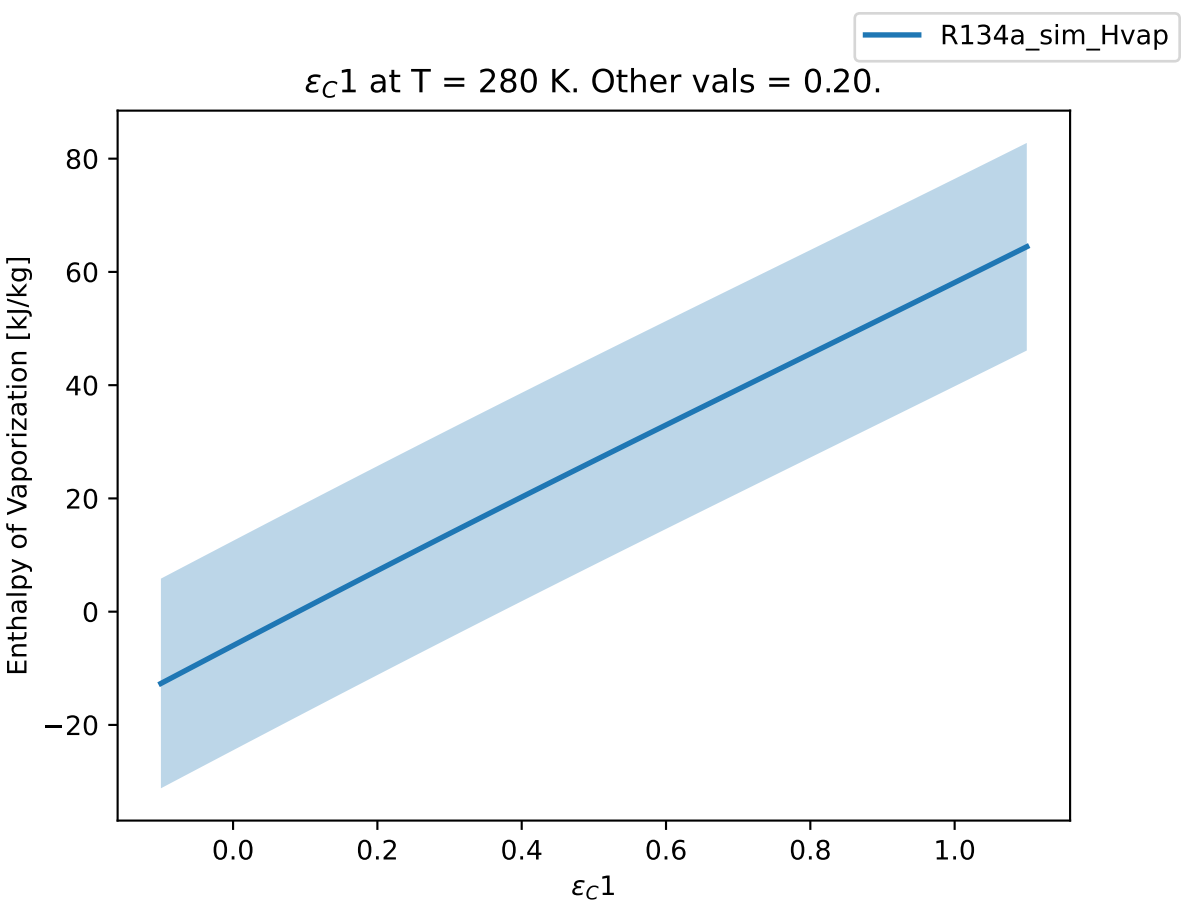

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
310
300
290
280
270
260
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

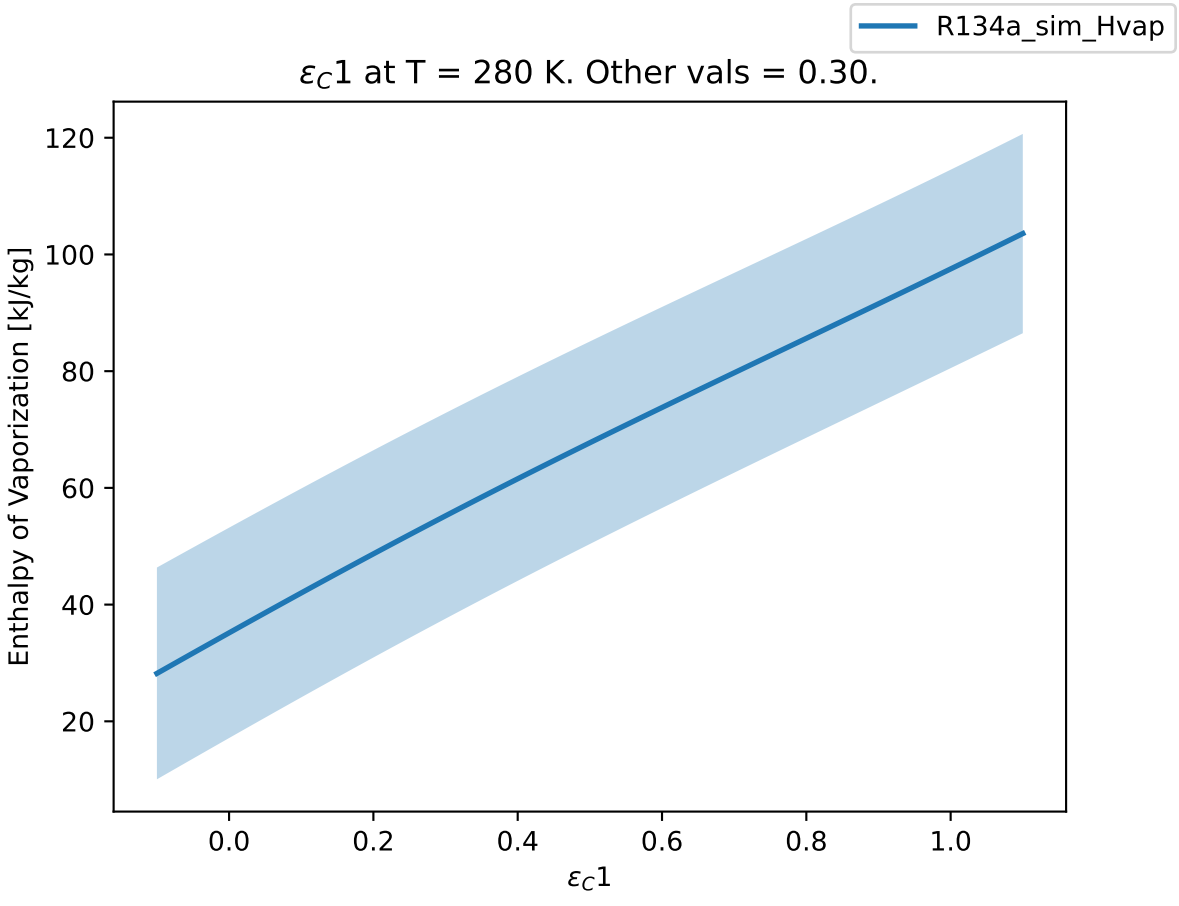

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
350
340
330
320
310
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

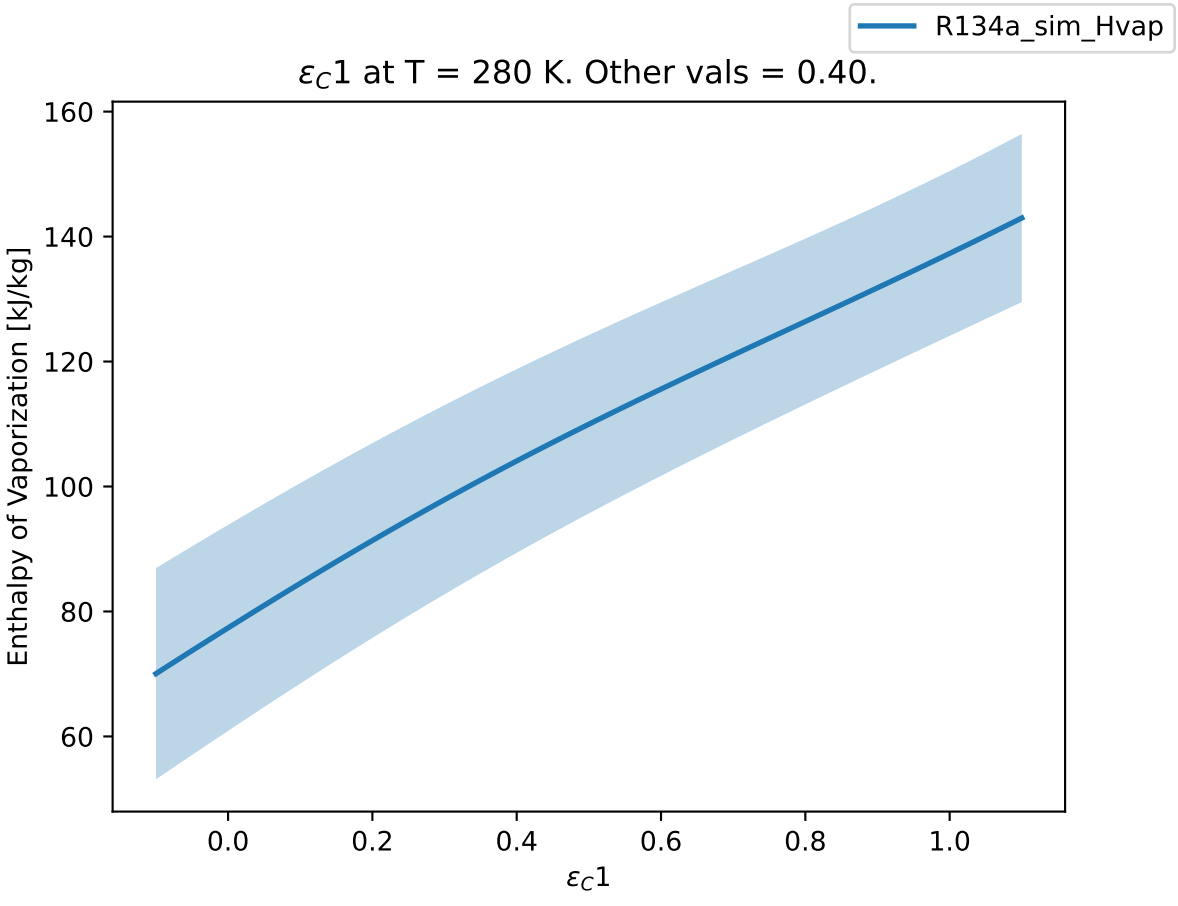

R134a_sim_Hvap
σ_H1 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
400
390
380
370
360
350
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

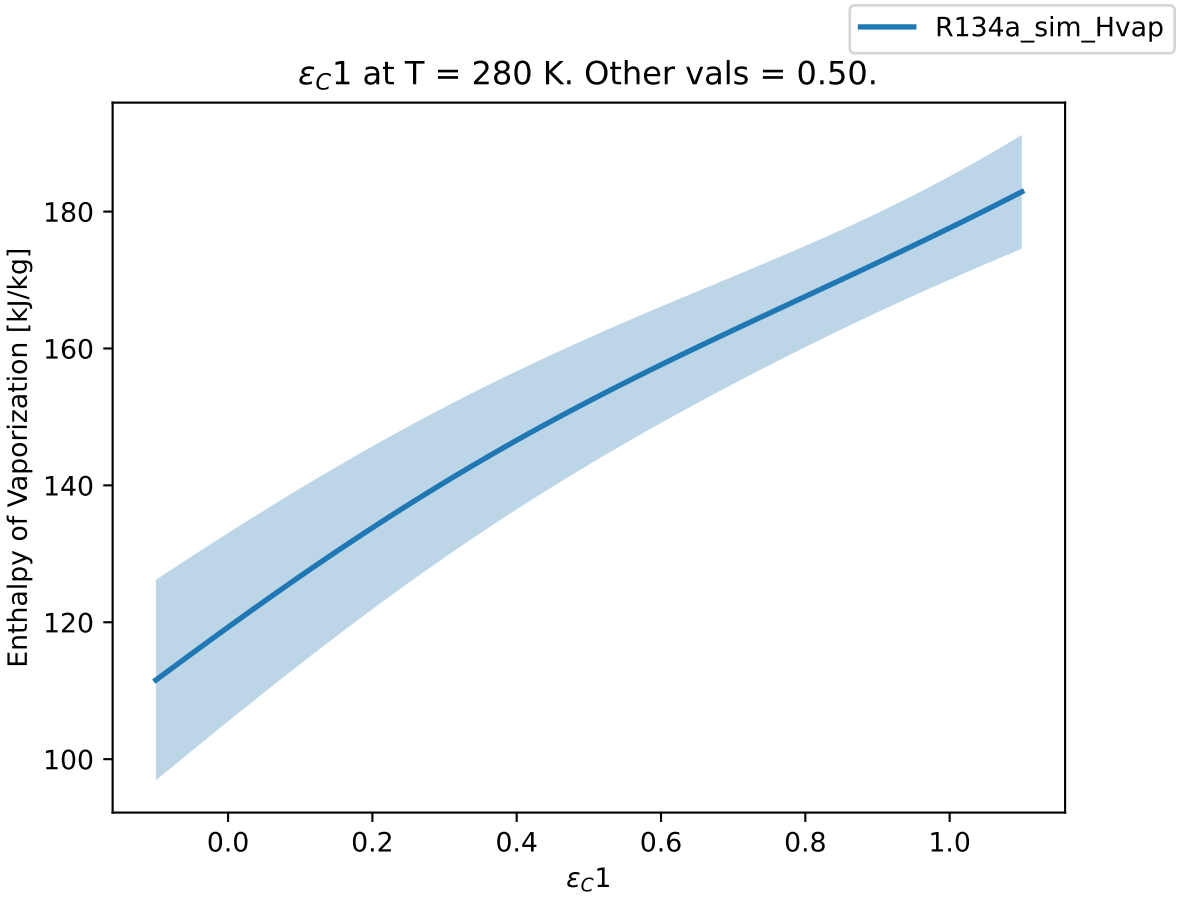

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

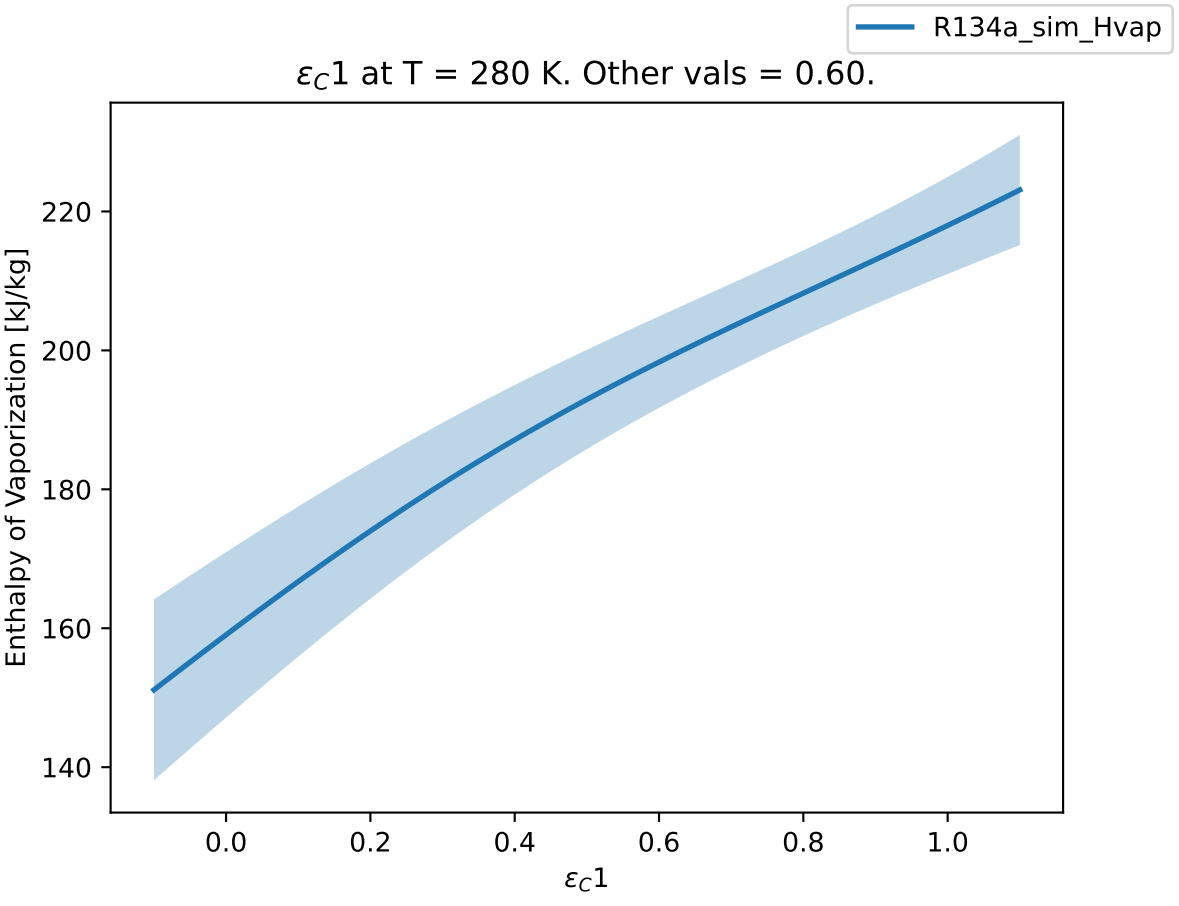

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

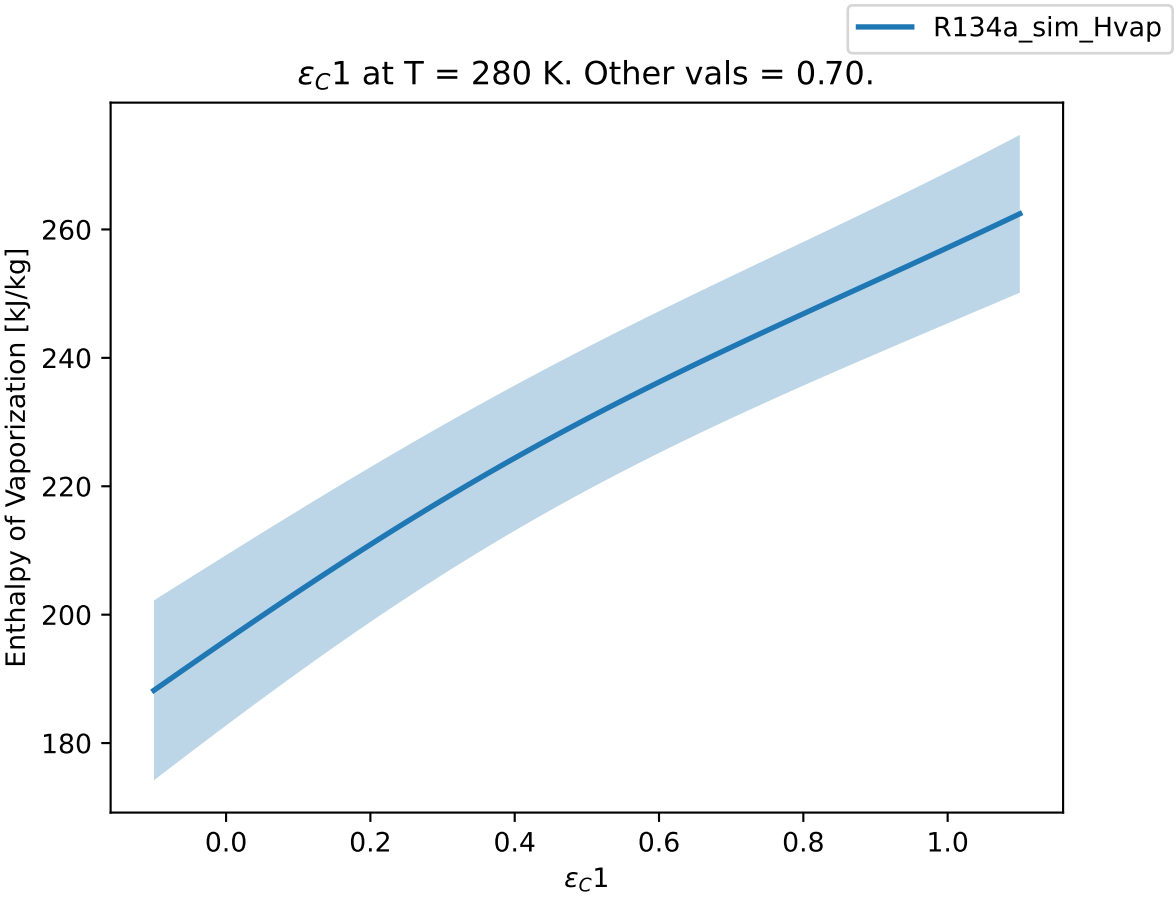

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

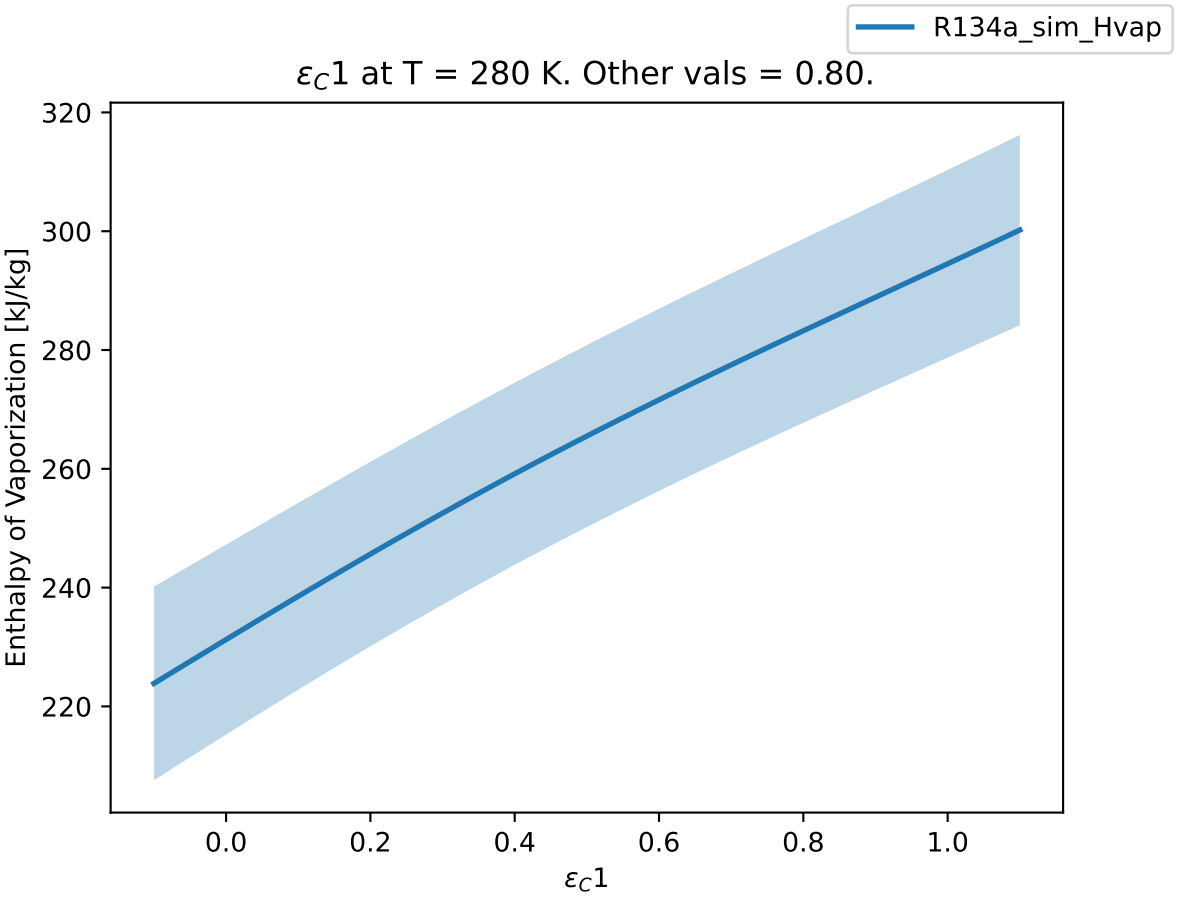

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
120
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

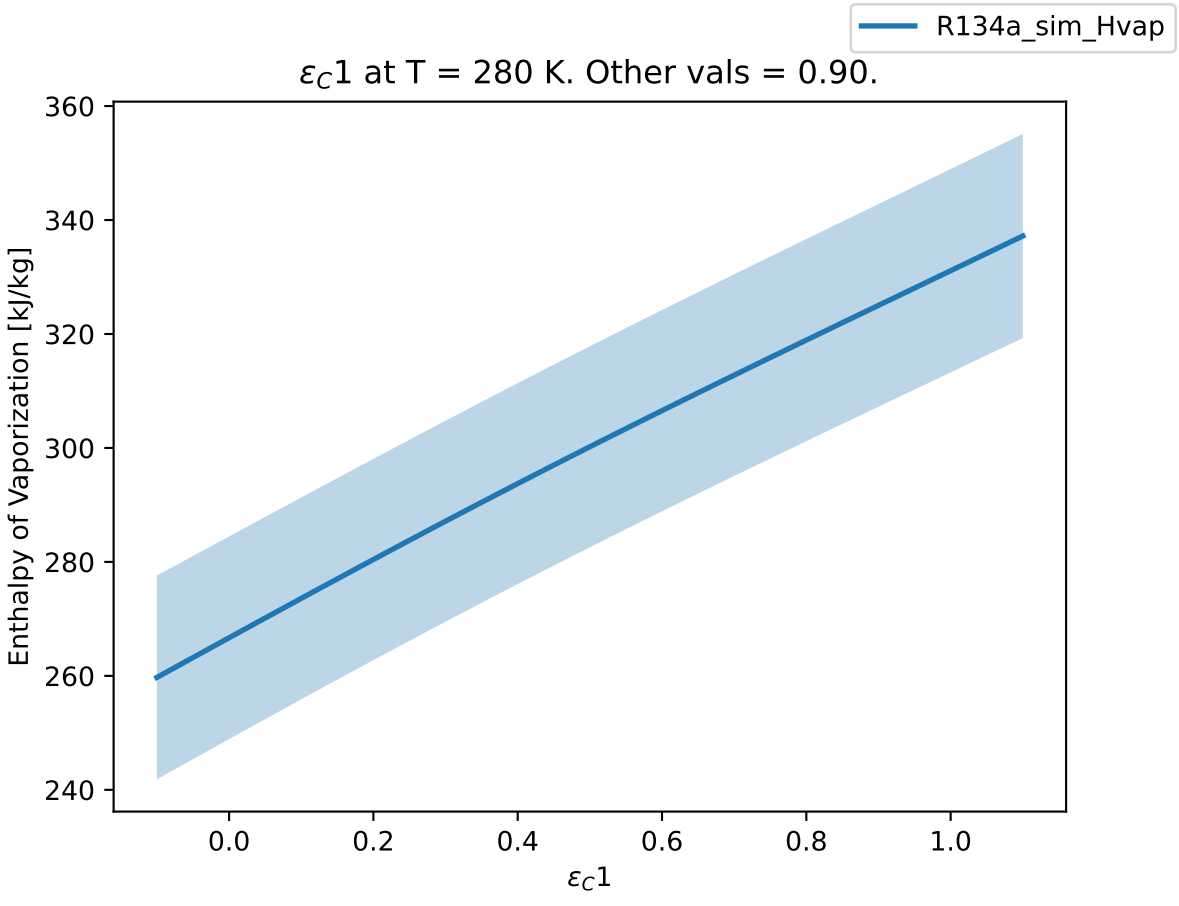

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

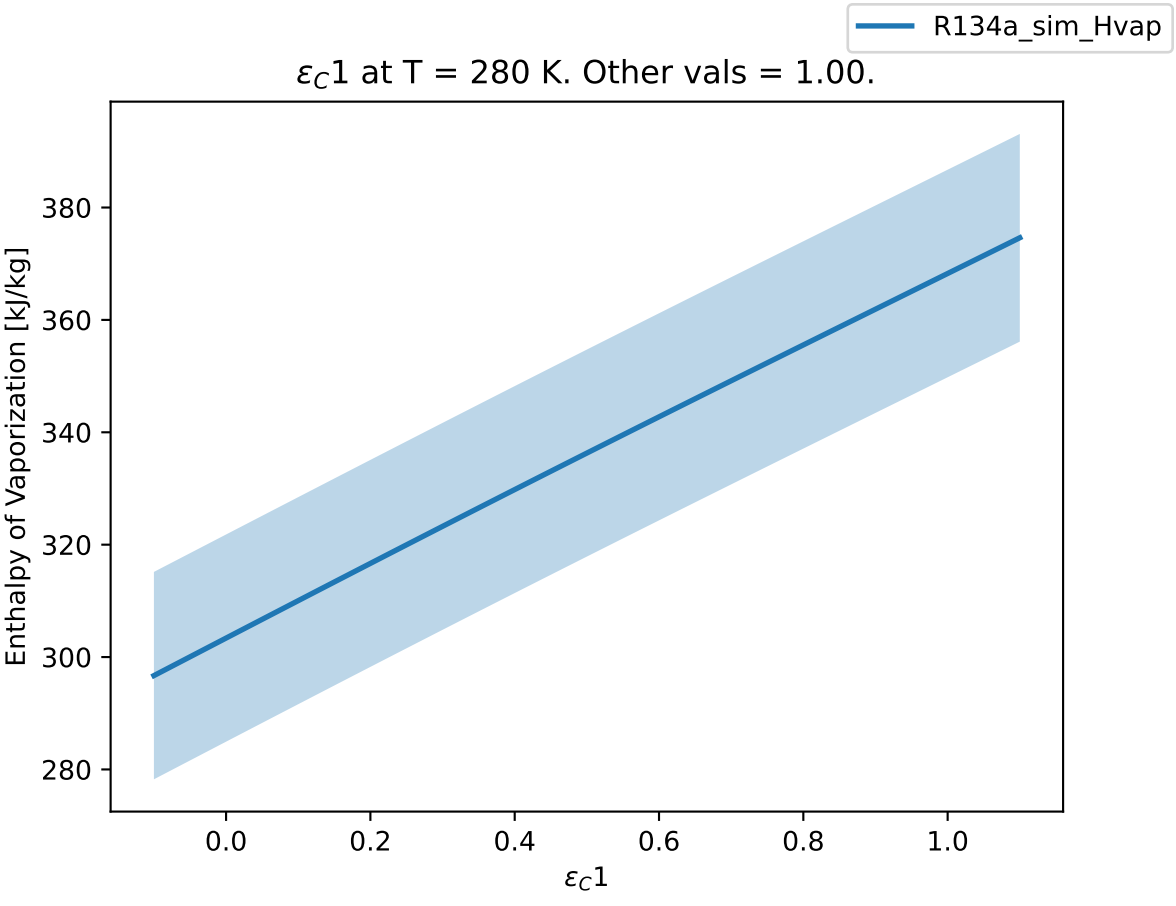

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

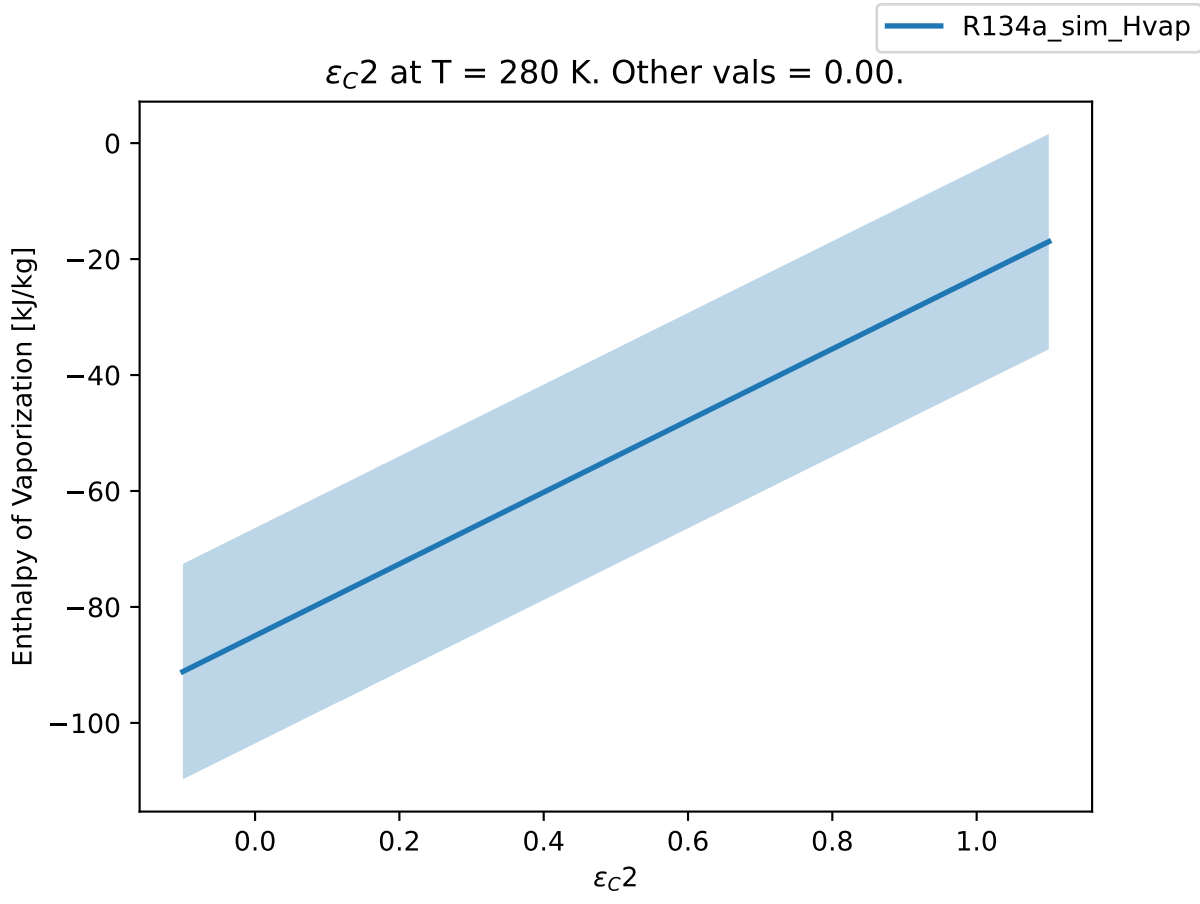

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
220
200
180
160
140
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

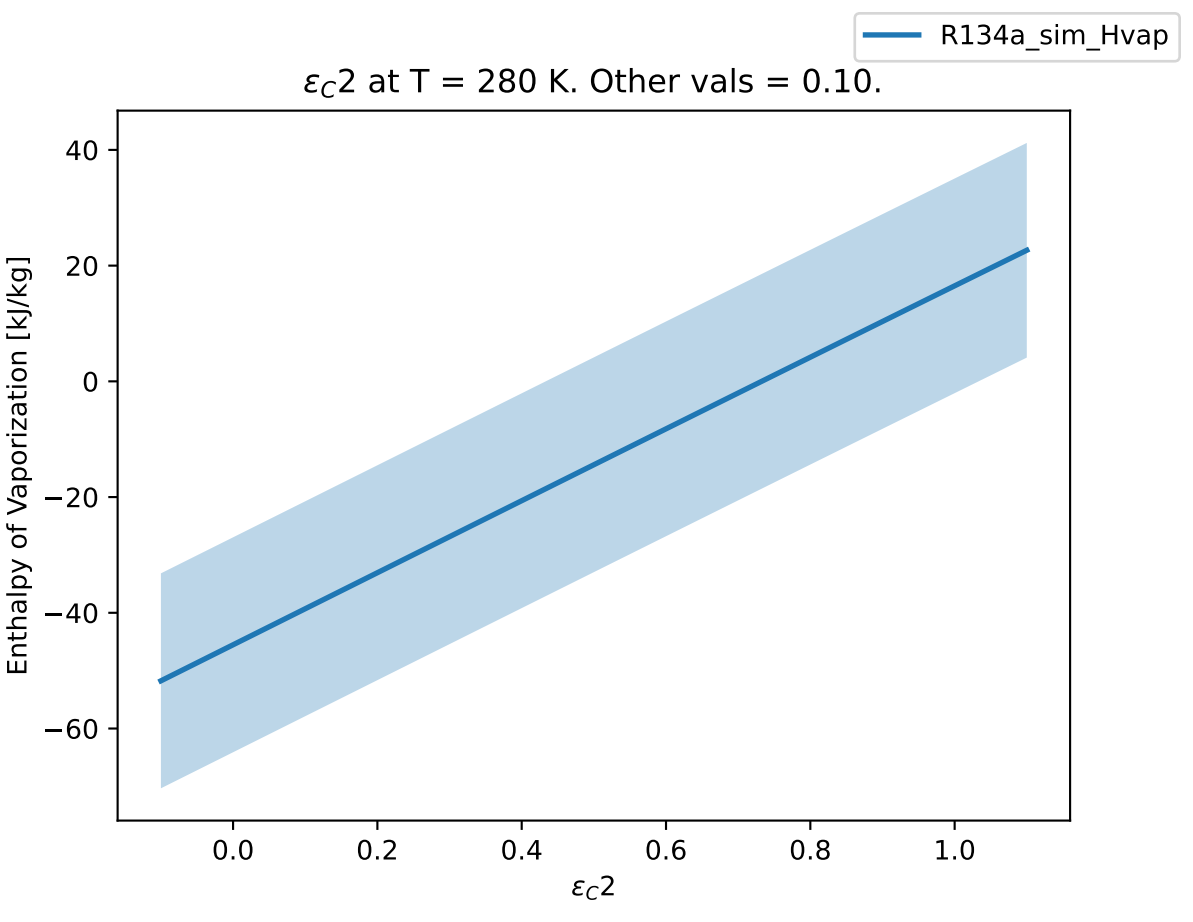

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
180
200
220
240
260
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

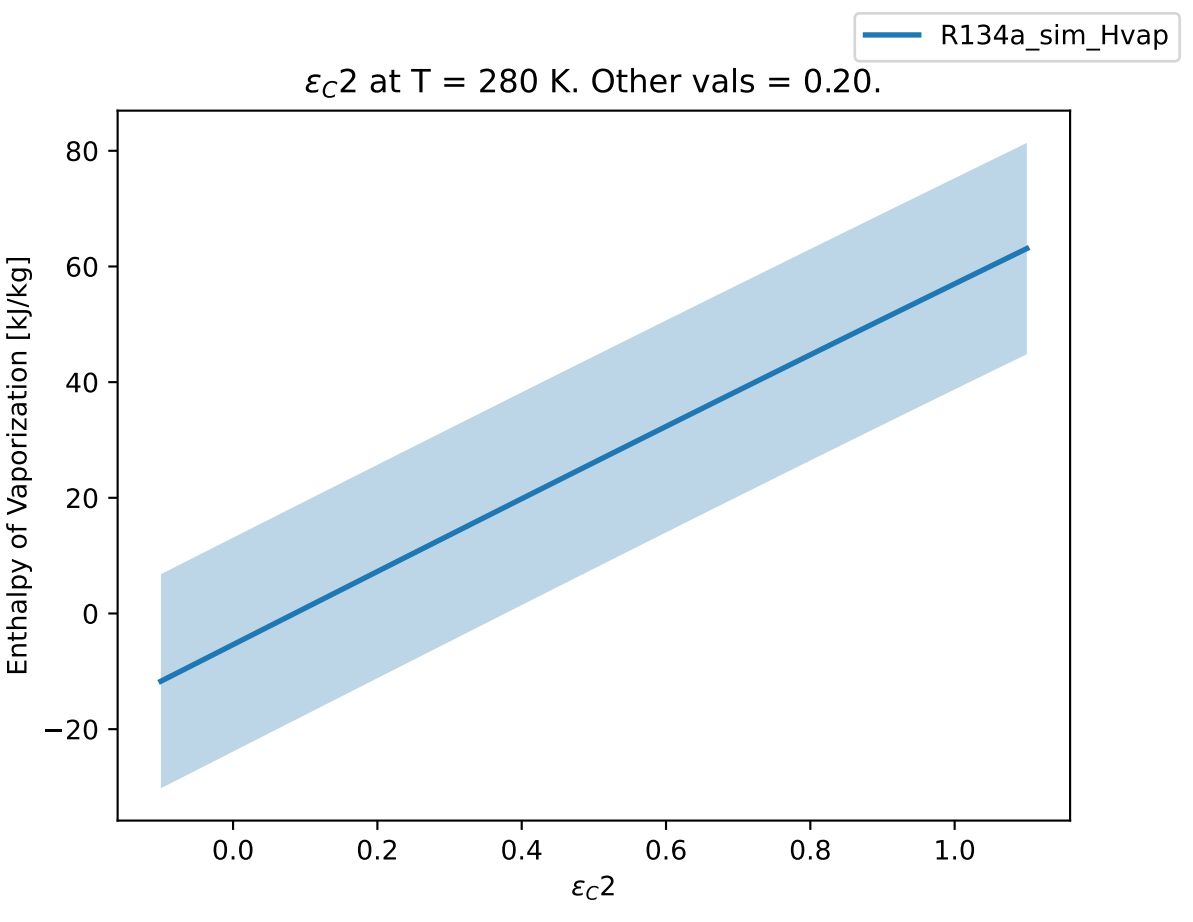

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
220
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

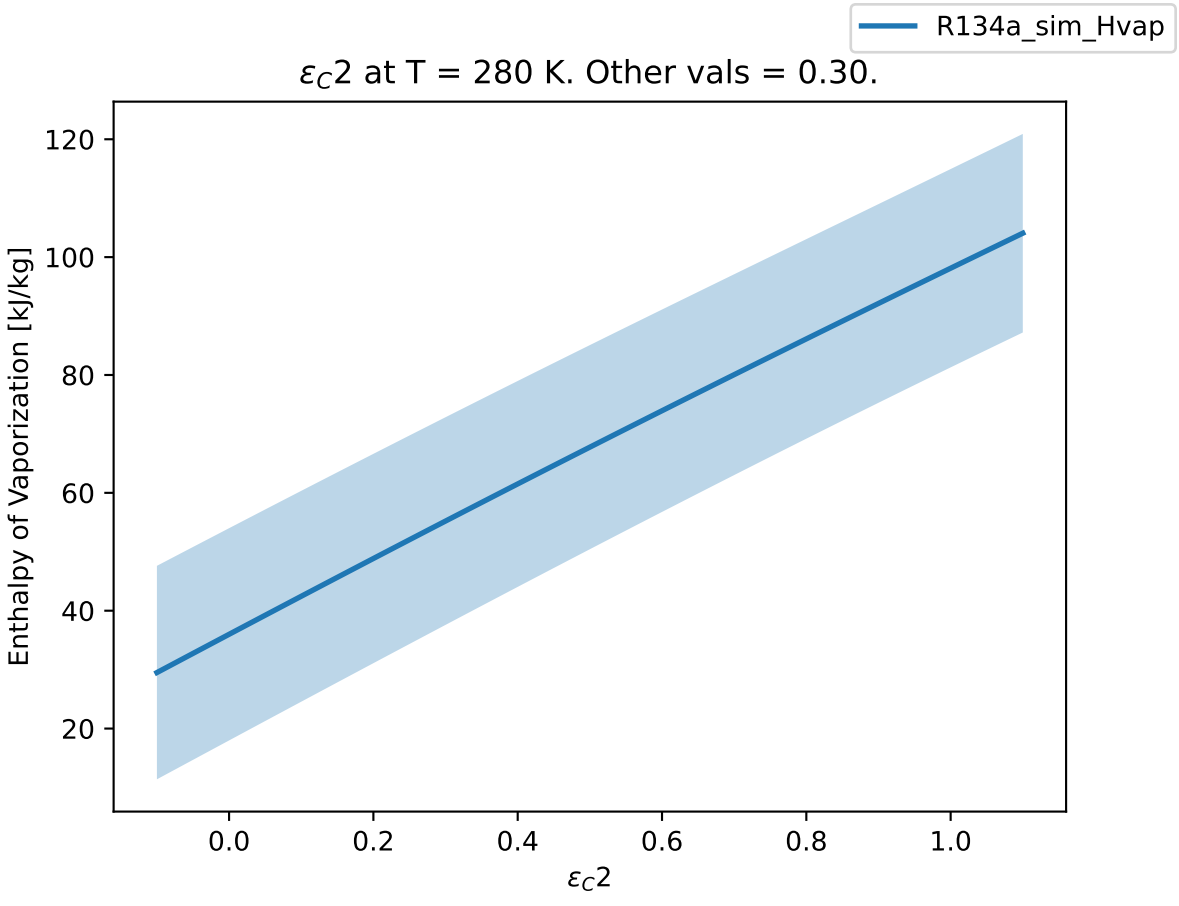

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
360
340
320
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

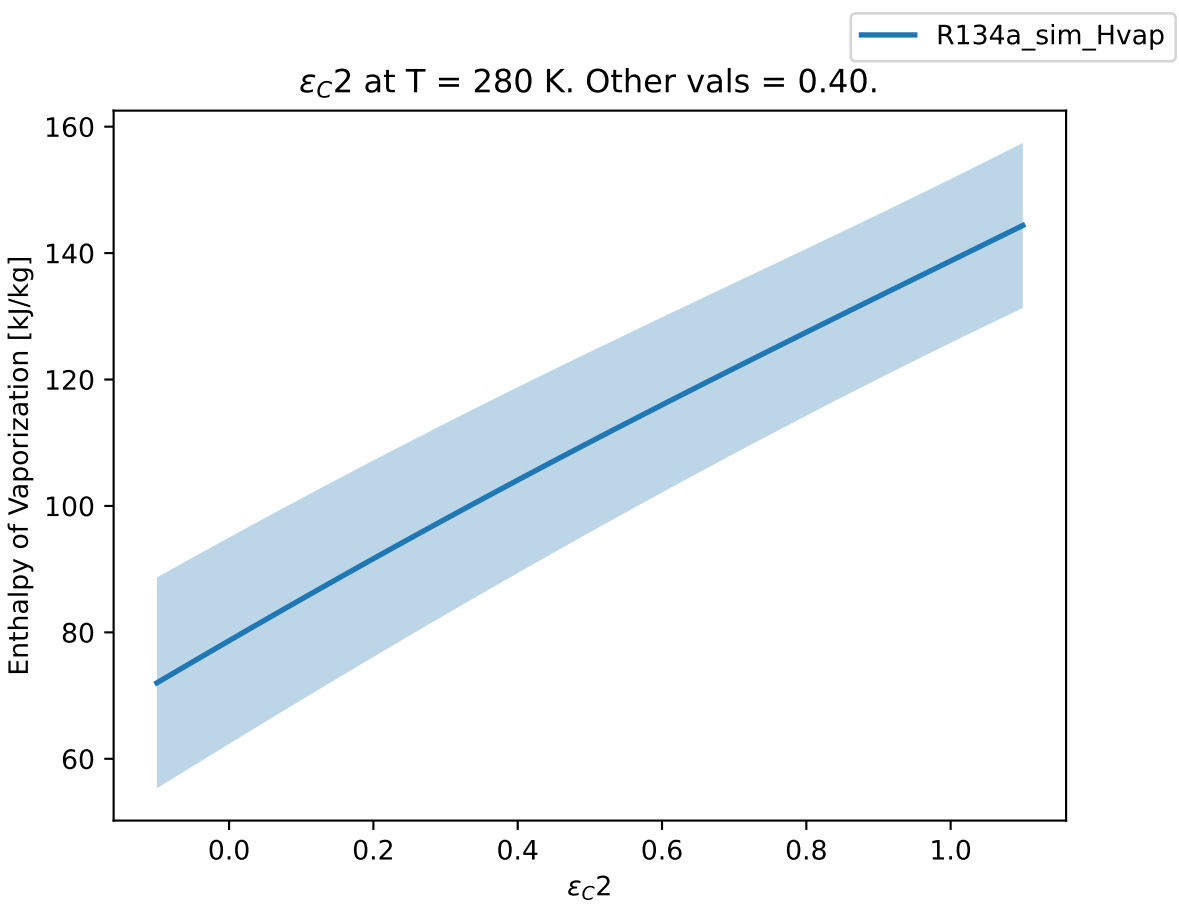

R134a_sim_Hvap
ε_C1 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
380
360
340
320
300
280
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

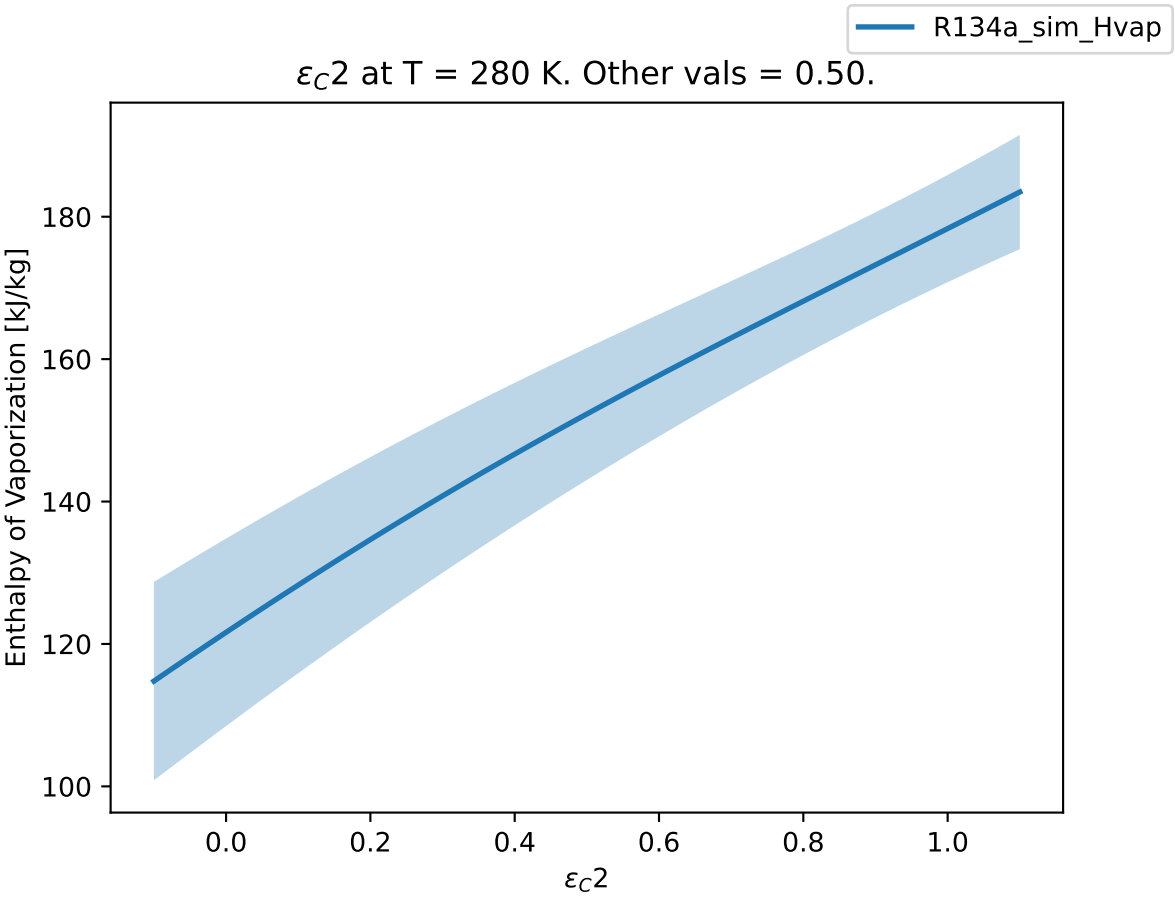

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

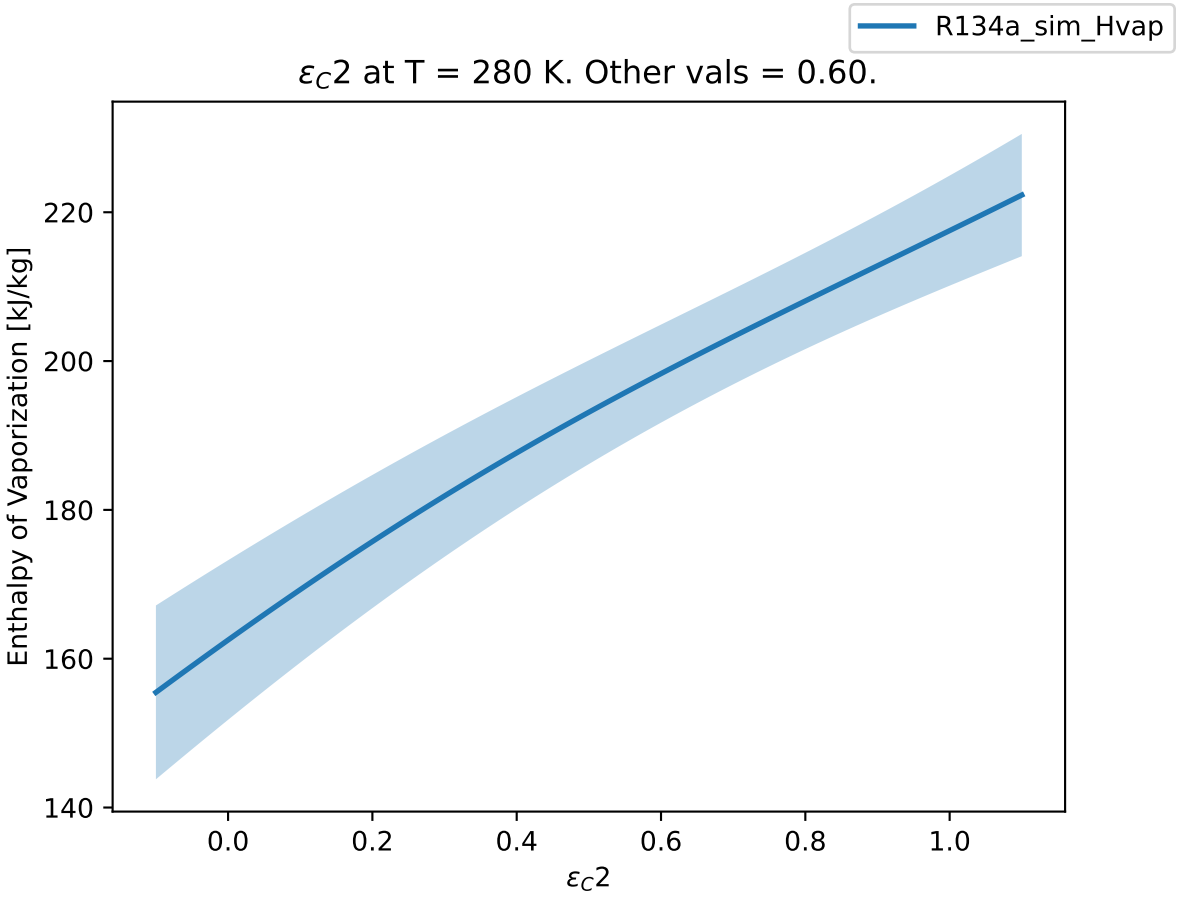

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

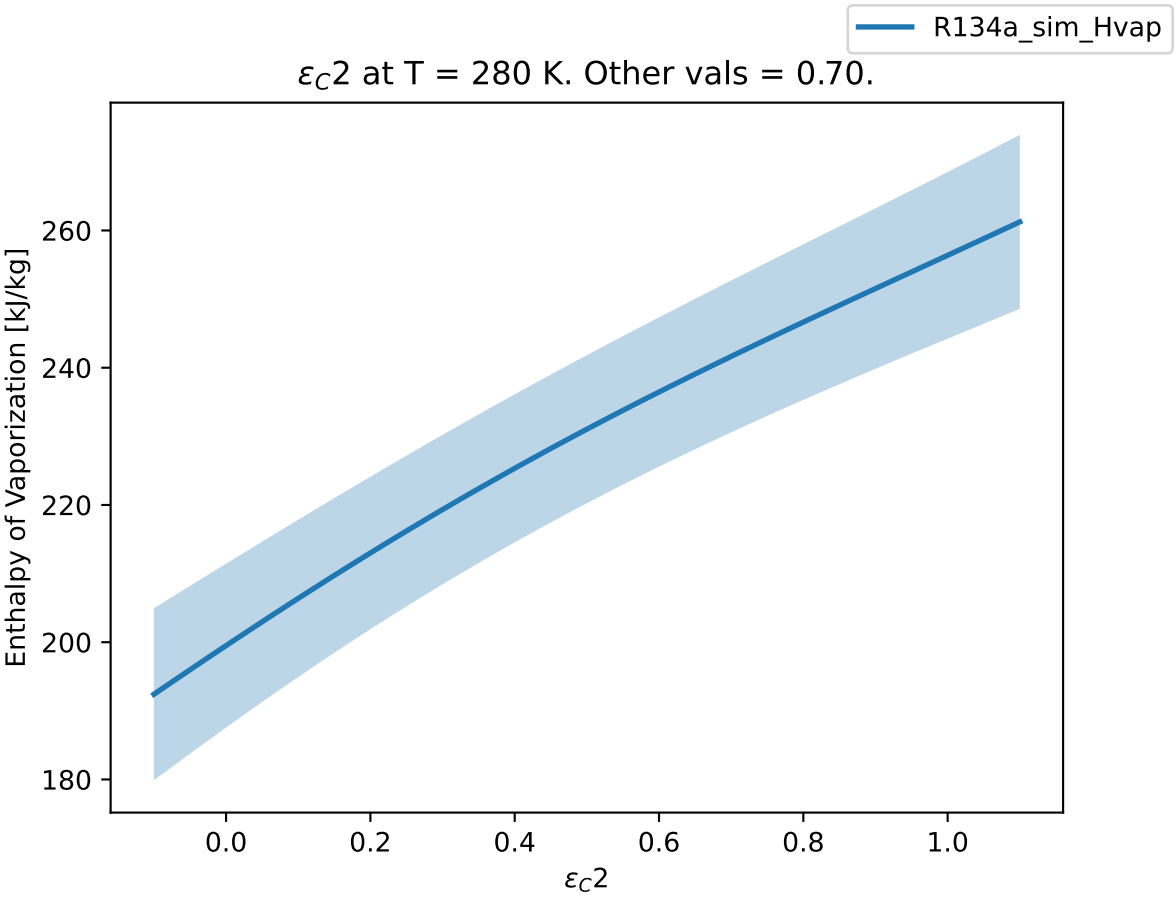

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

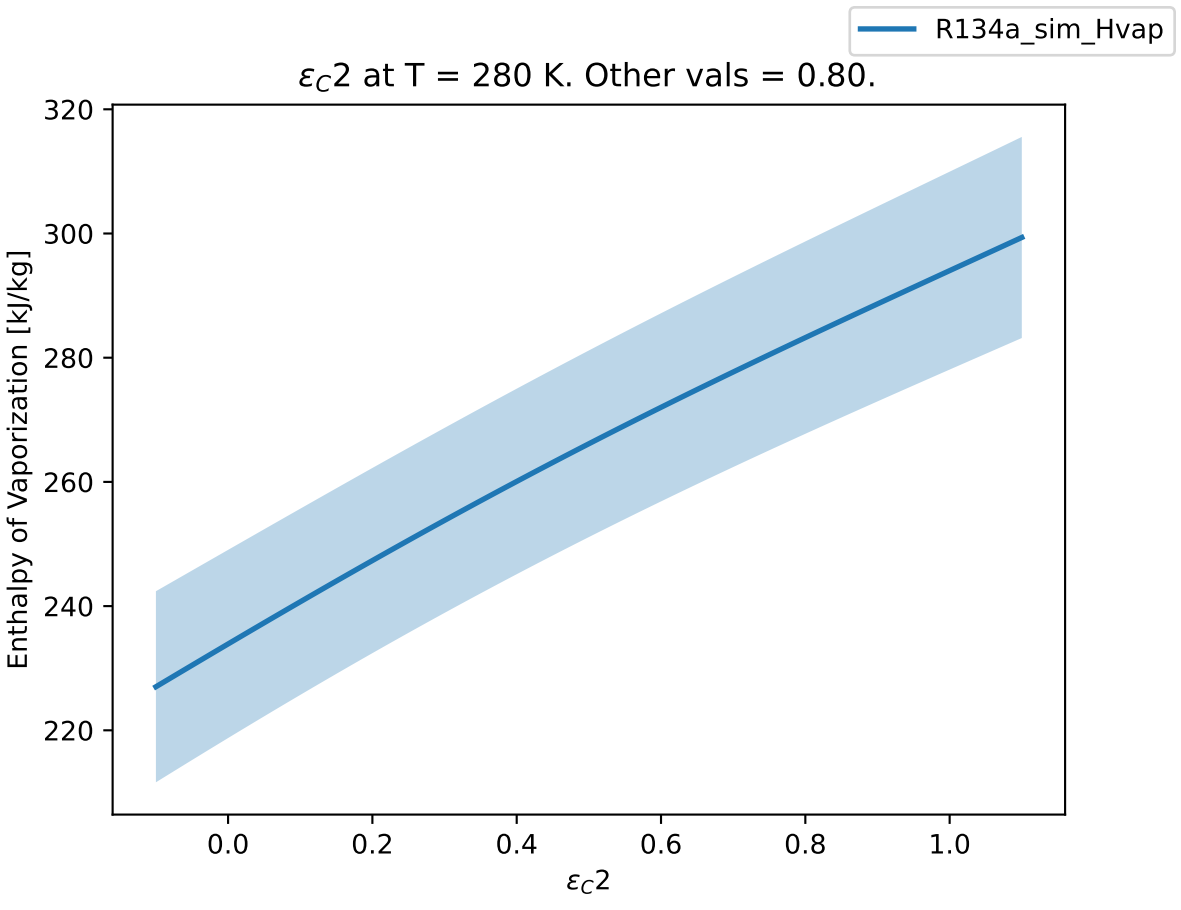

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
120
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

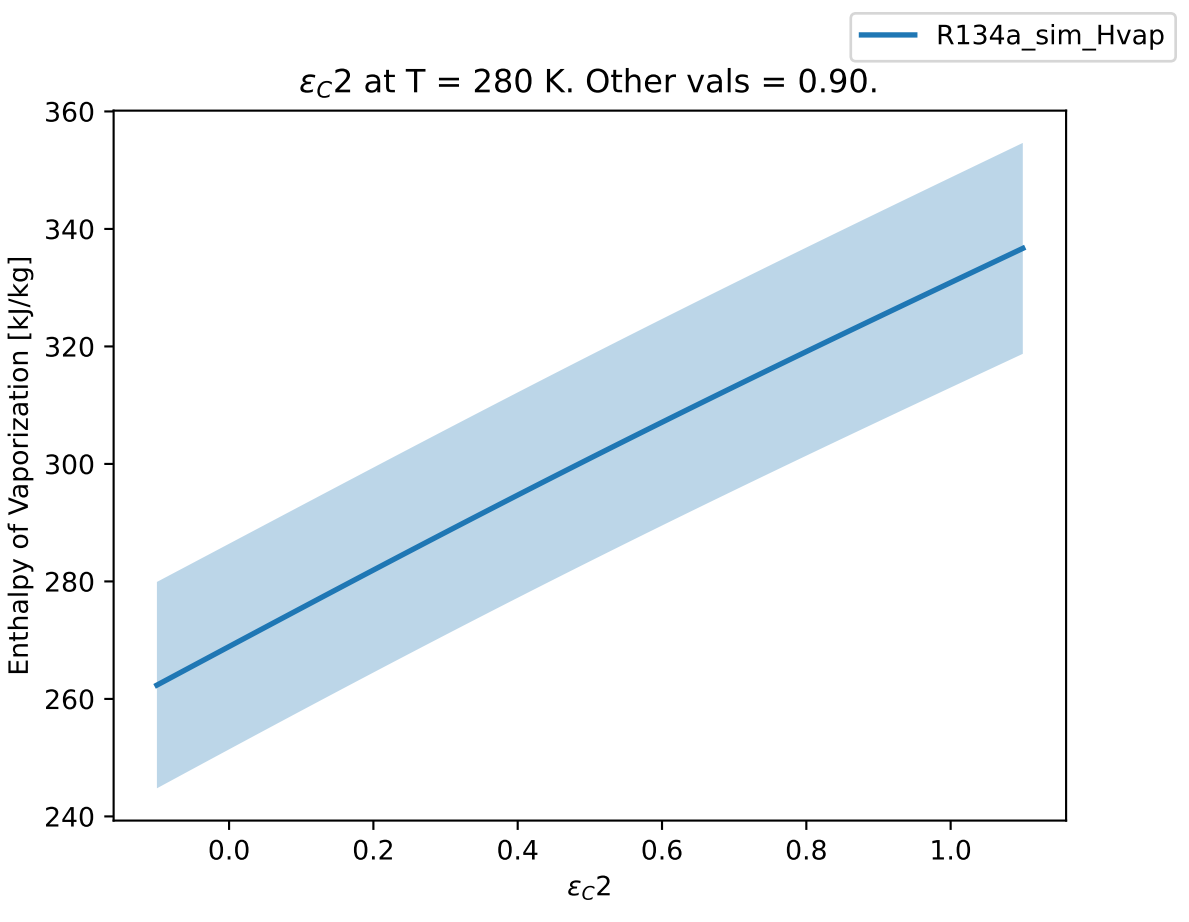

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

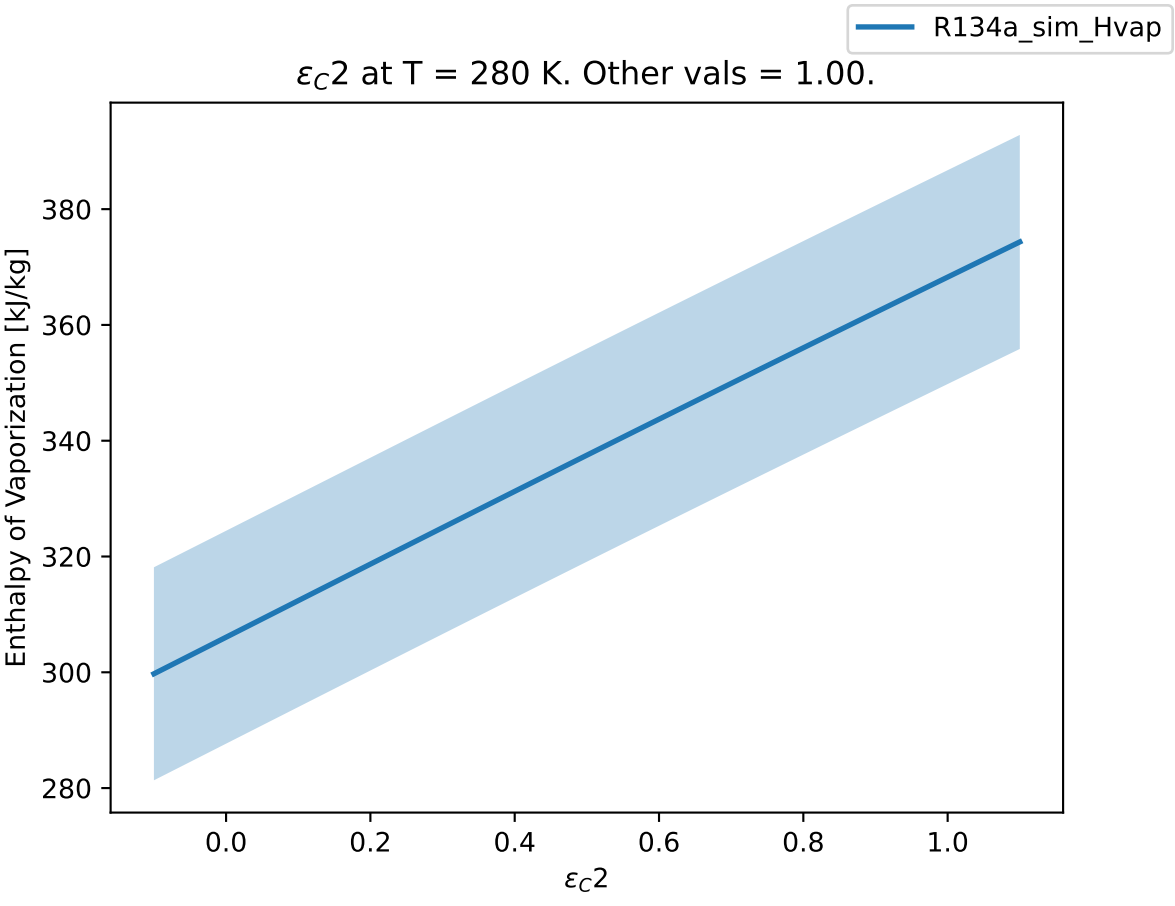

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

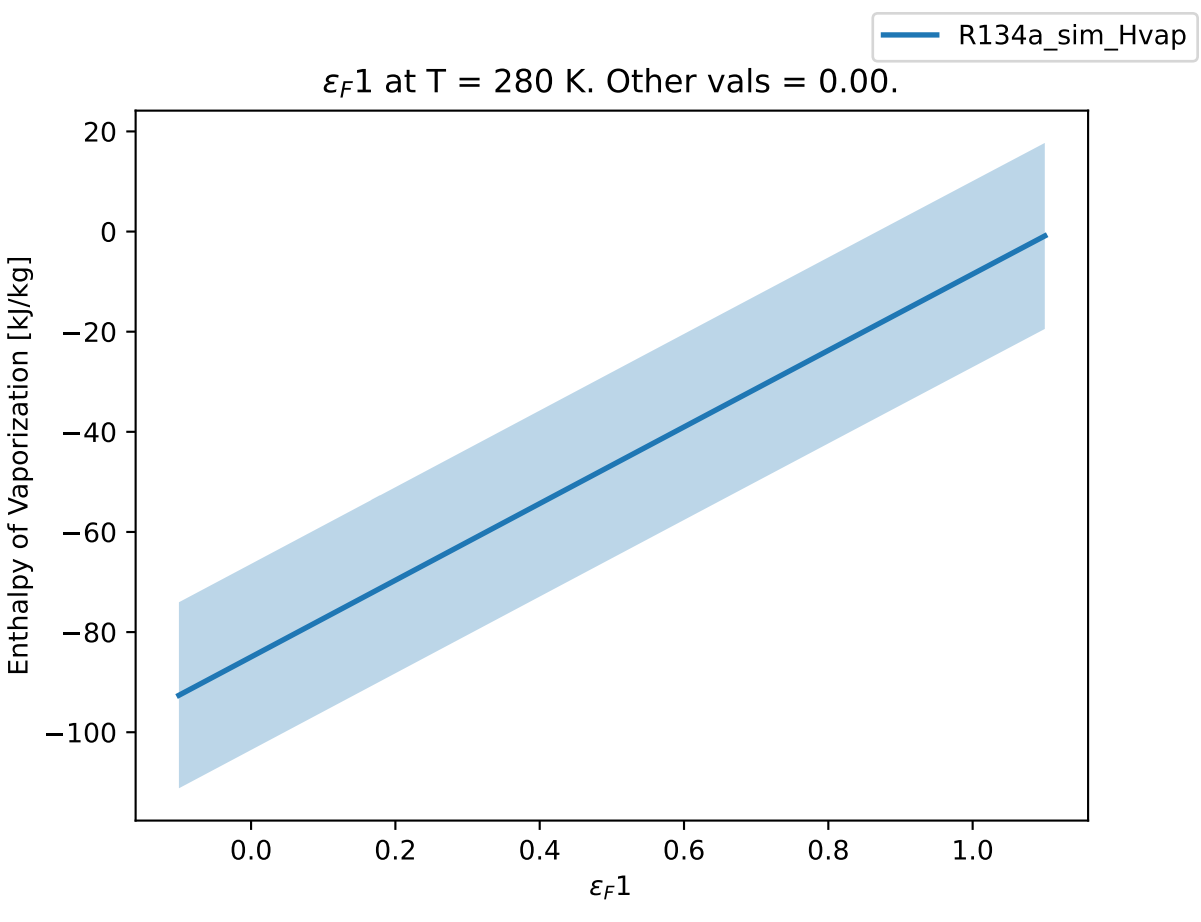

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
220
200
180
160
140
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

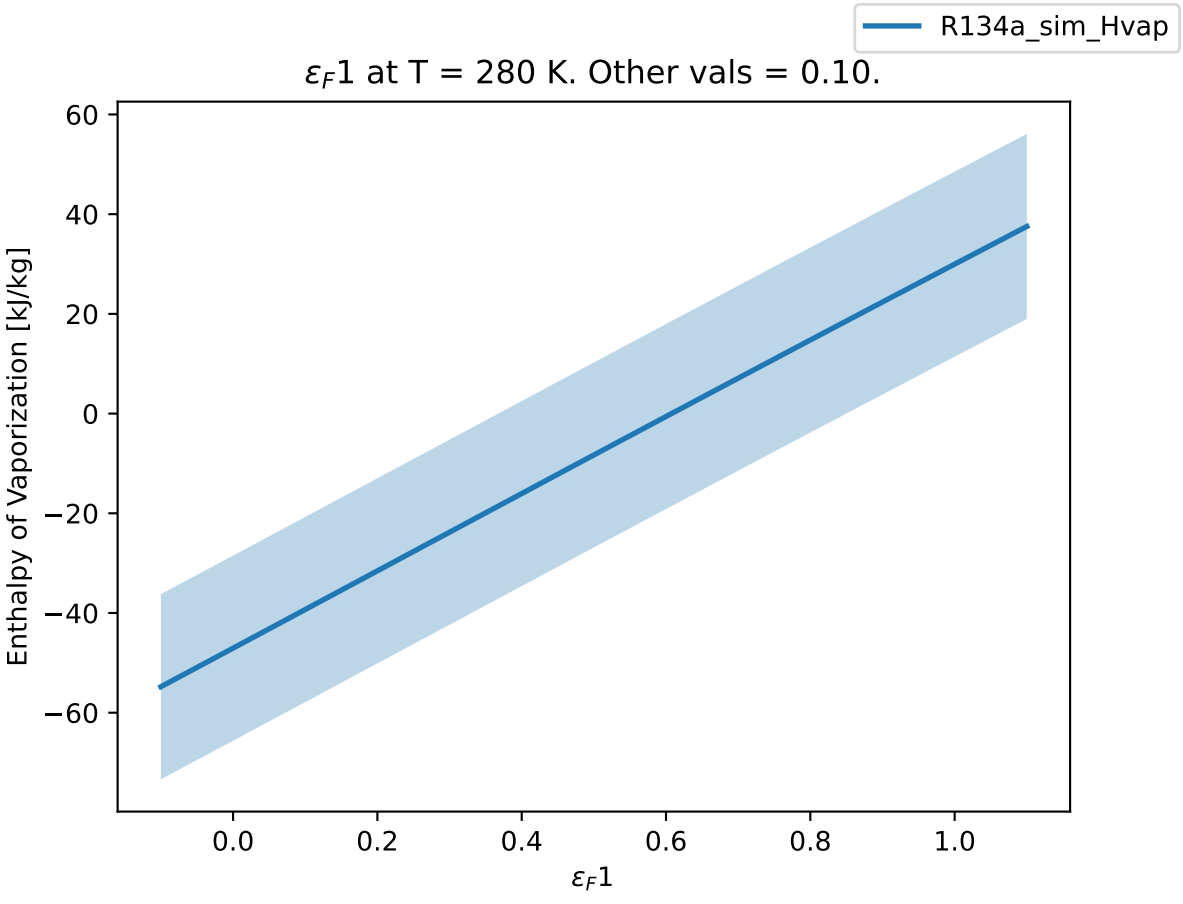

R134a_sim_Hvap
ε_C2 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
180
200
220
240
260
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

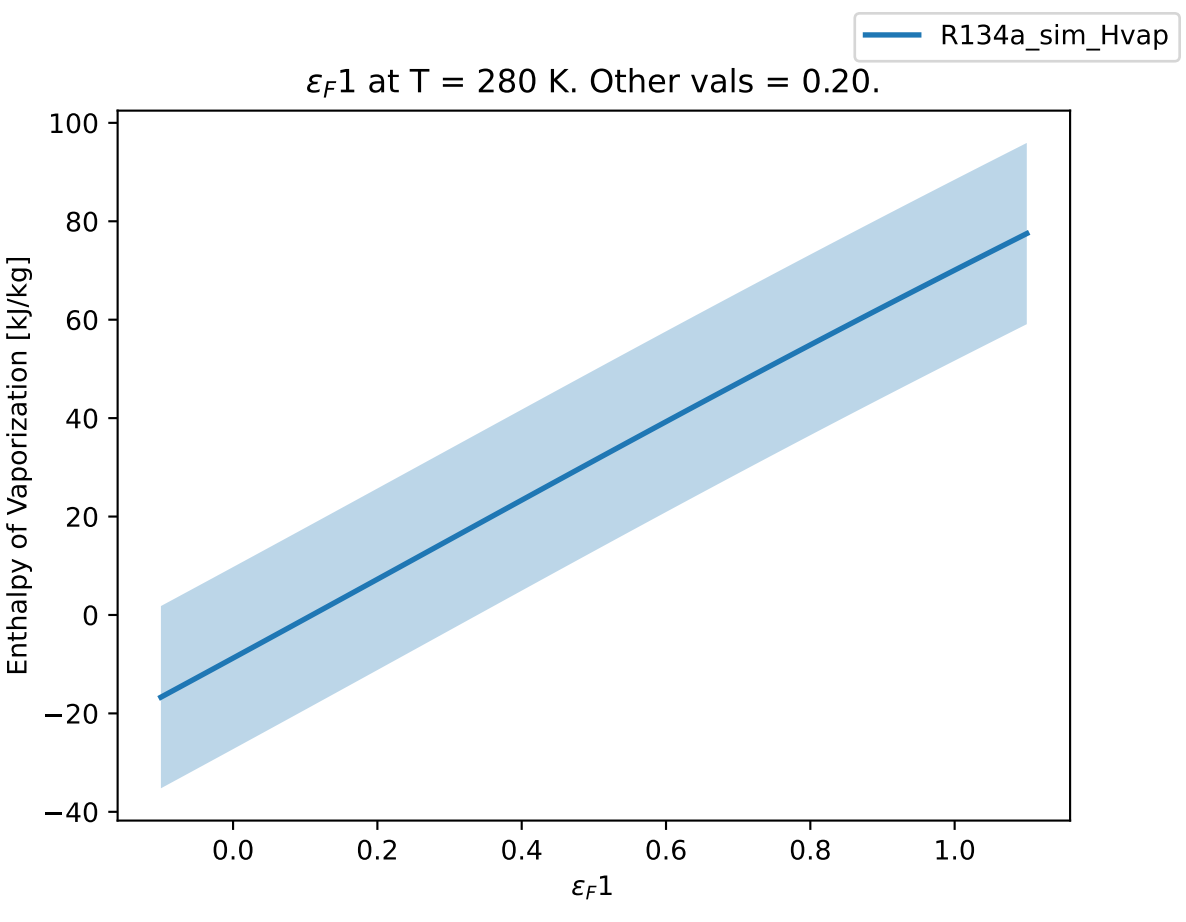

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
220
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

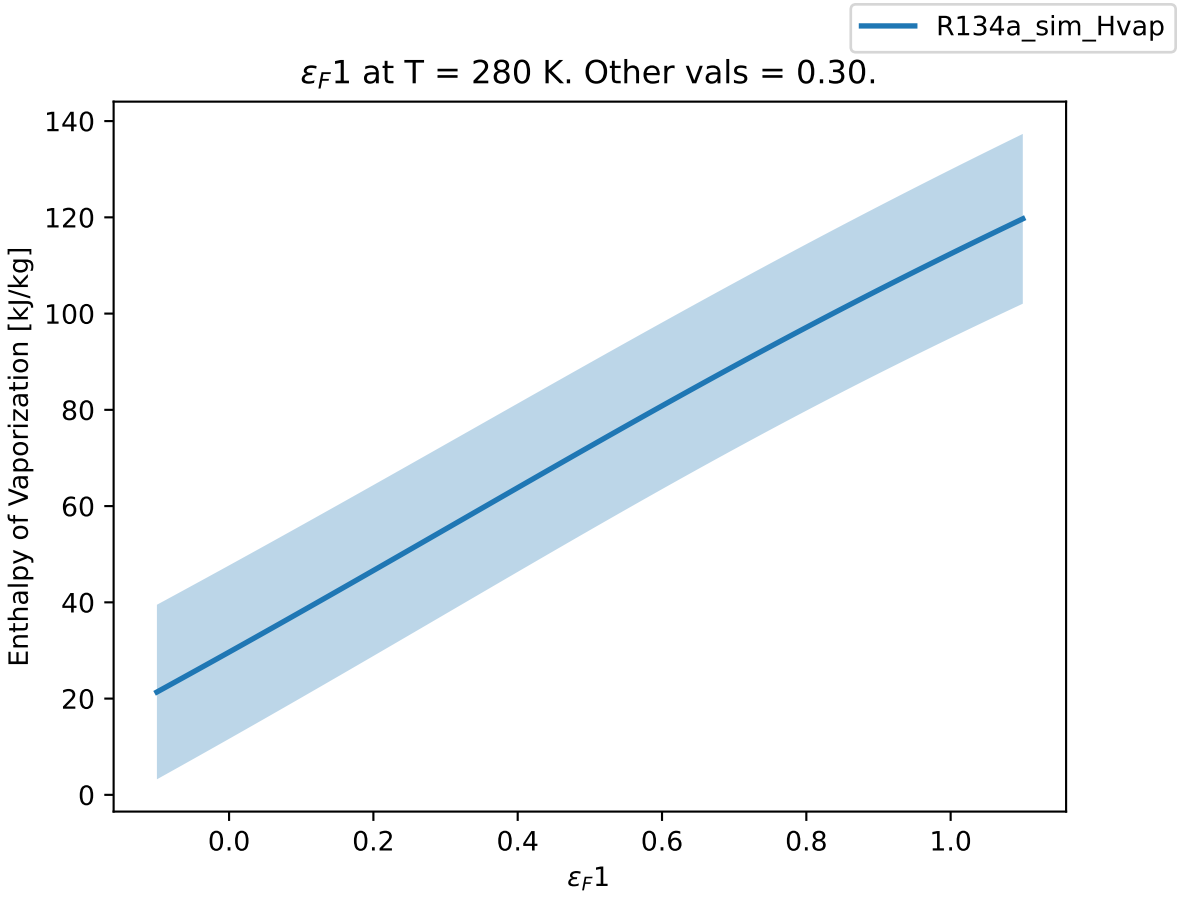

R134a_sim_Hvap
$\varepsilon_C 2$ at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
360
340
320
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

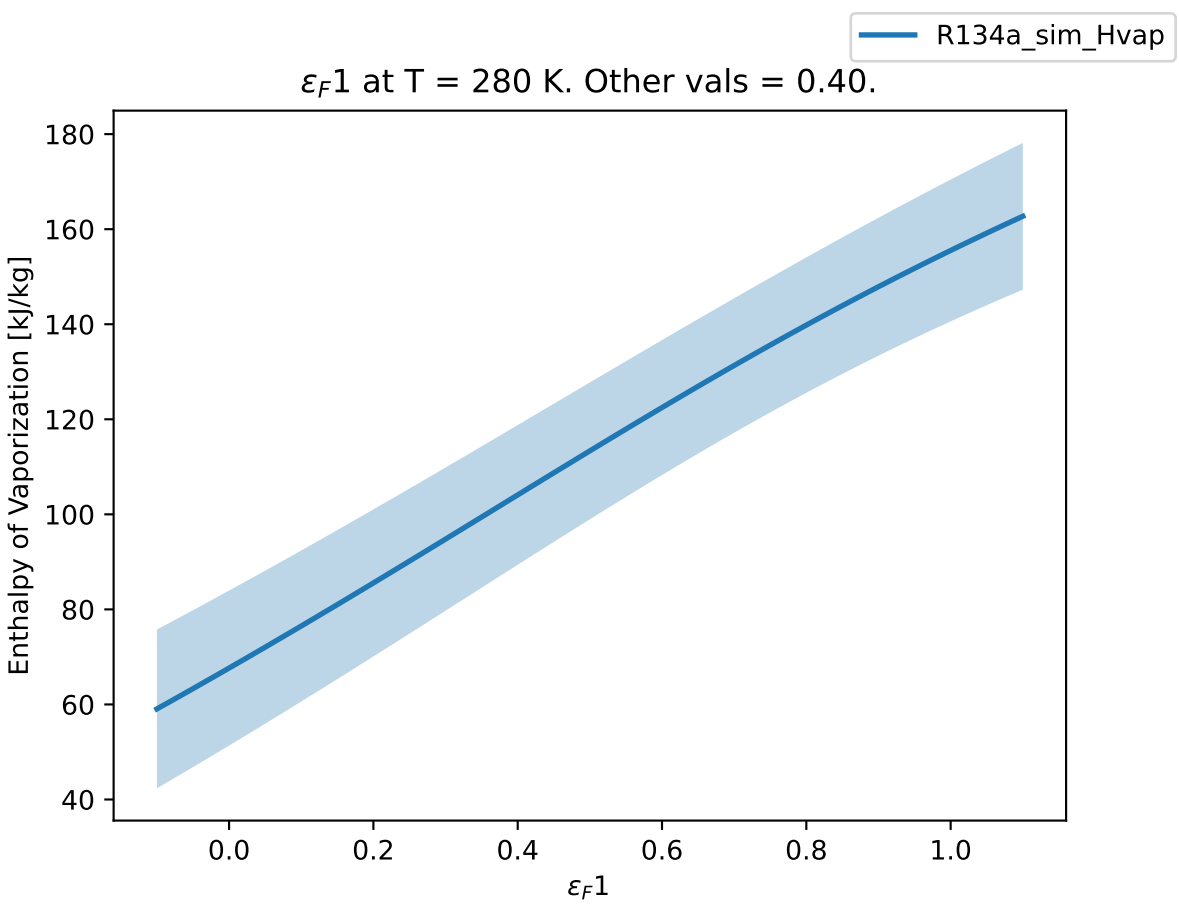

R134a_sim_Hvap
ε_C2 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
380
360
340
320
300
280
0.0
0.2
0.4
0.6
0.8
1.0
ε_C2

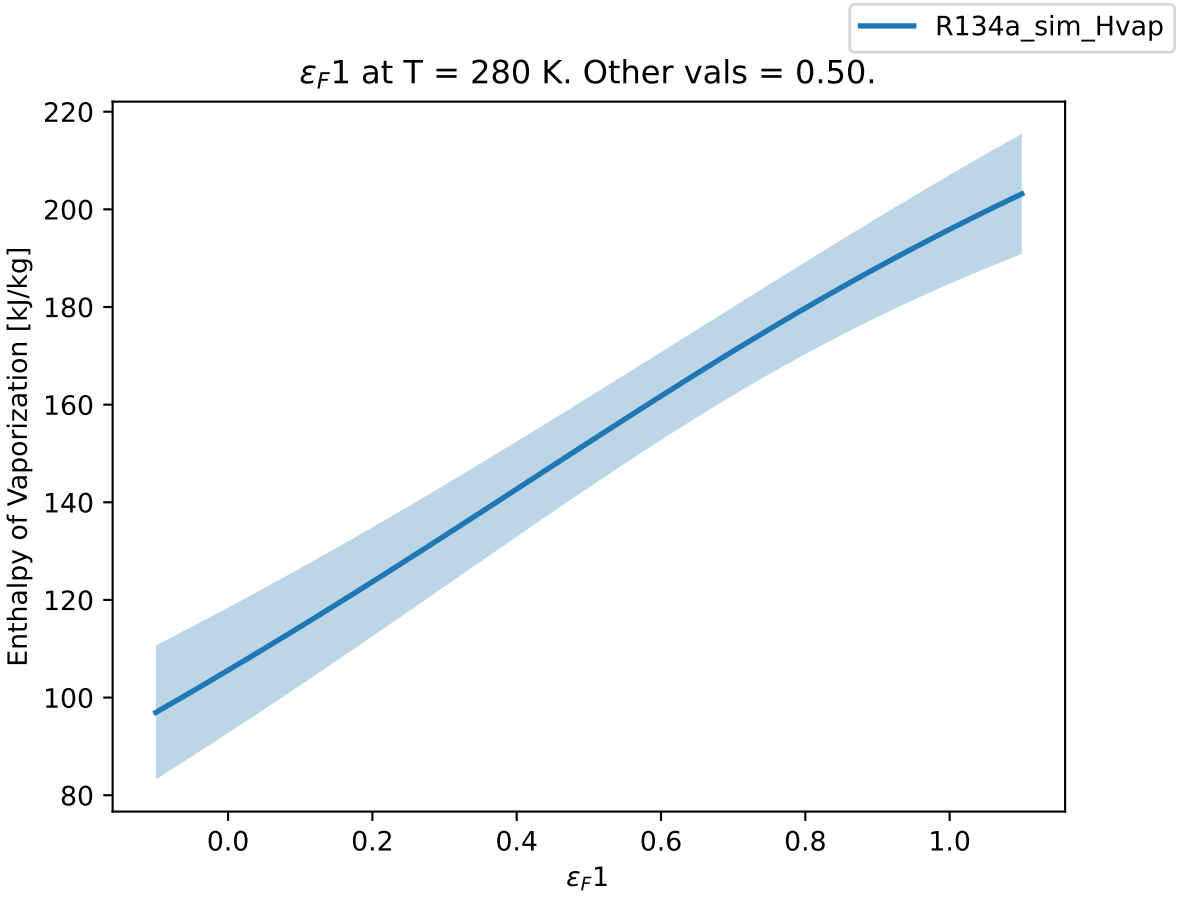

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
20
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

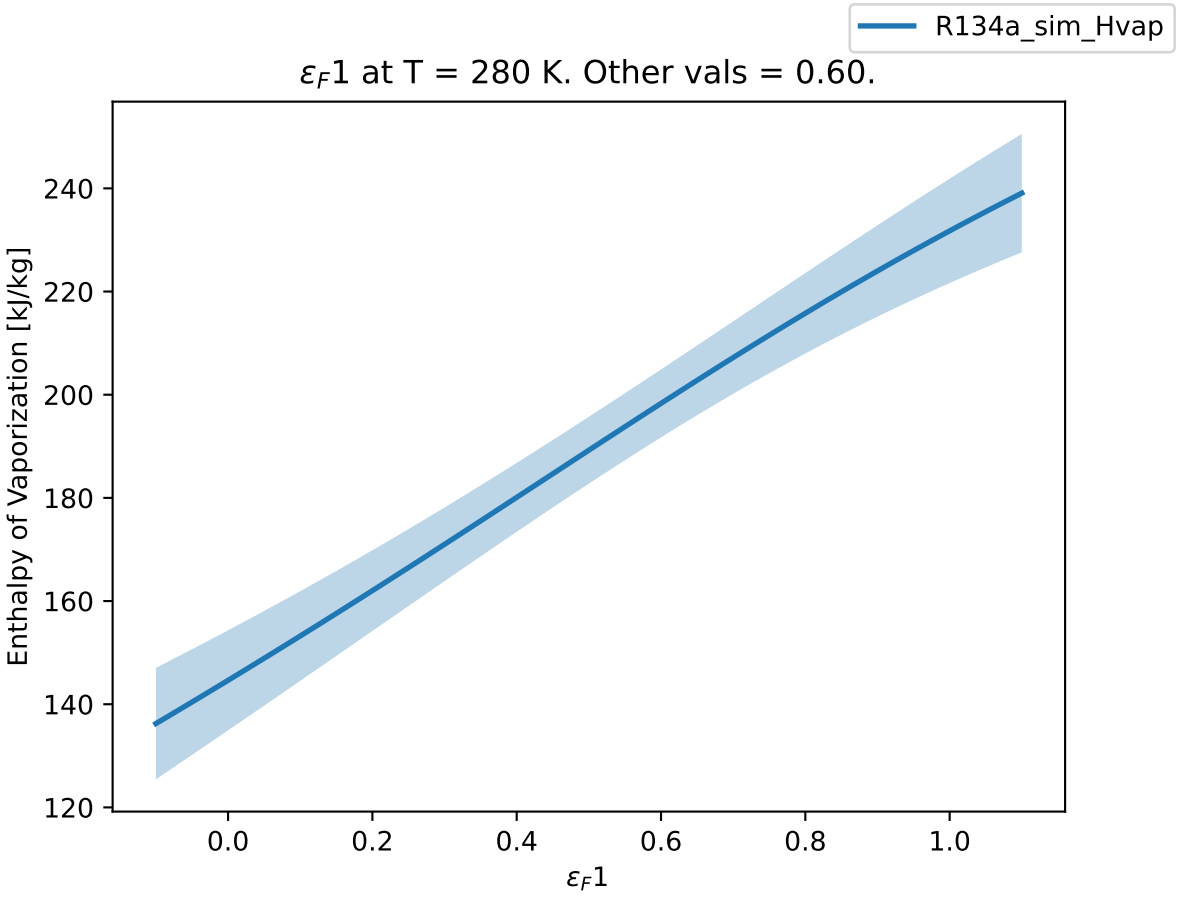

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
60
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

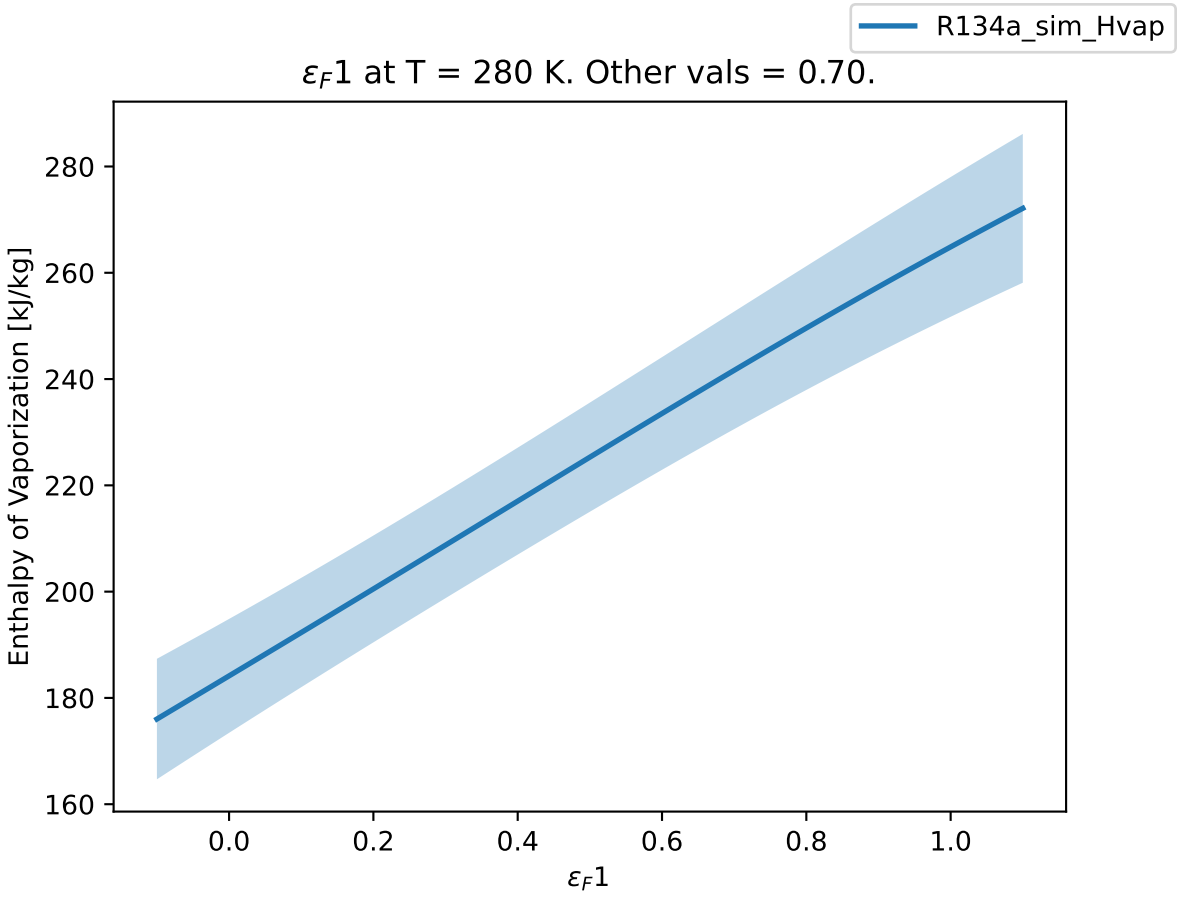

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
100
80
60
40
20
0
−20
−40
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

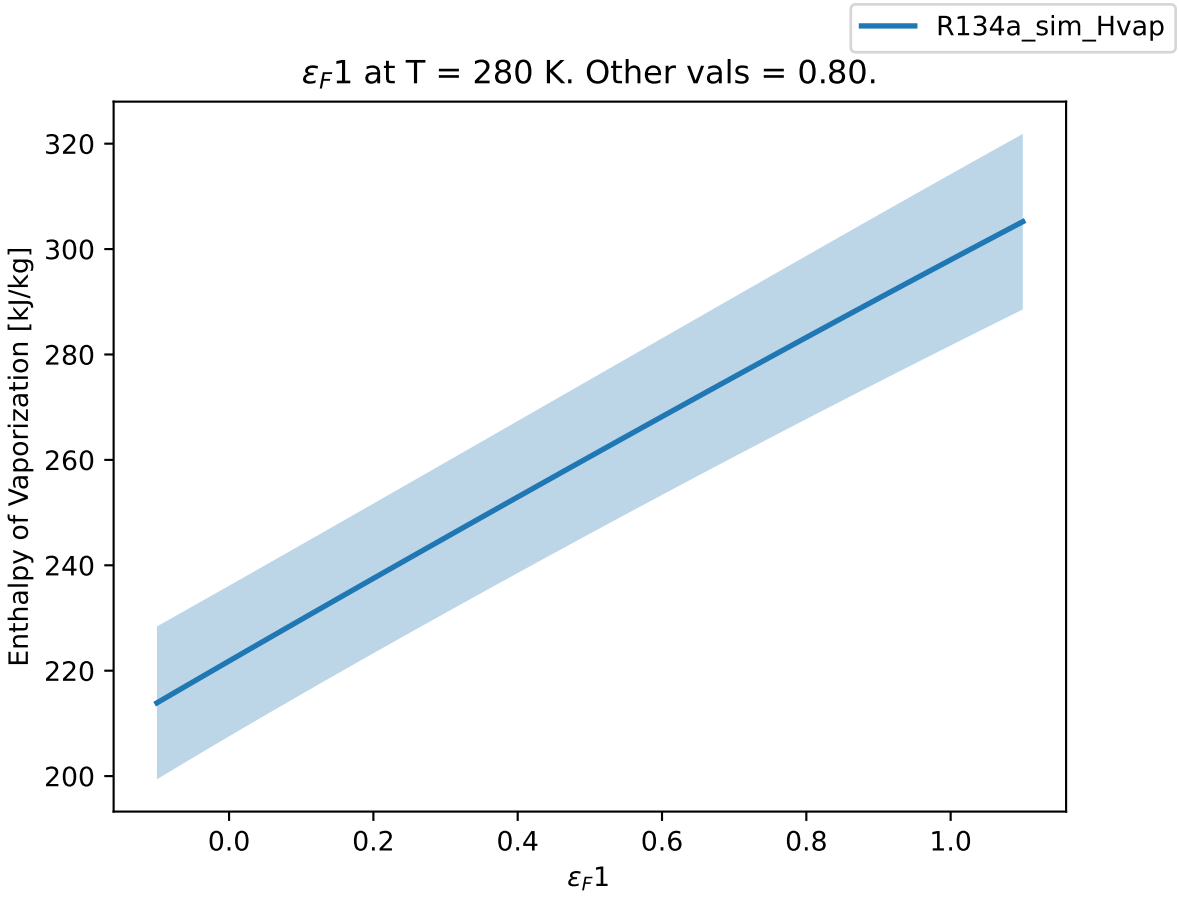

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
0
20
40
60
80
100
120
140
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

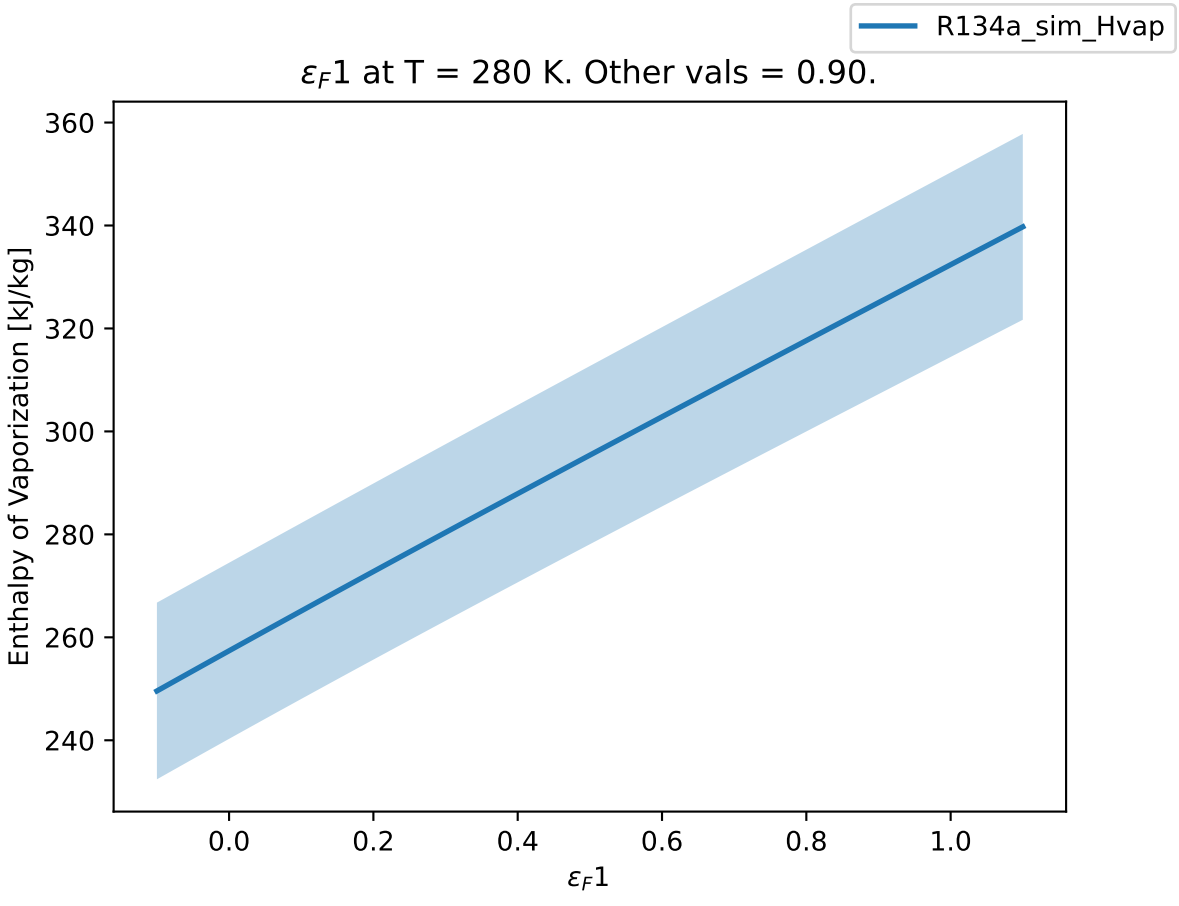

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
180
160
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

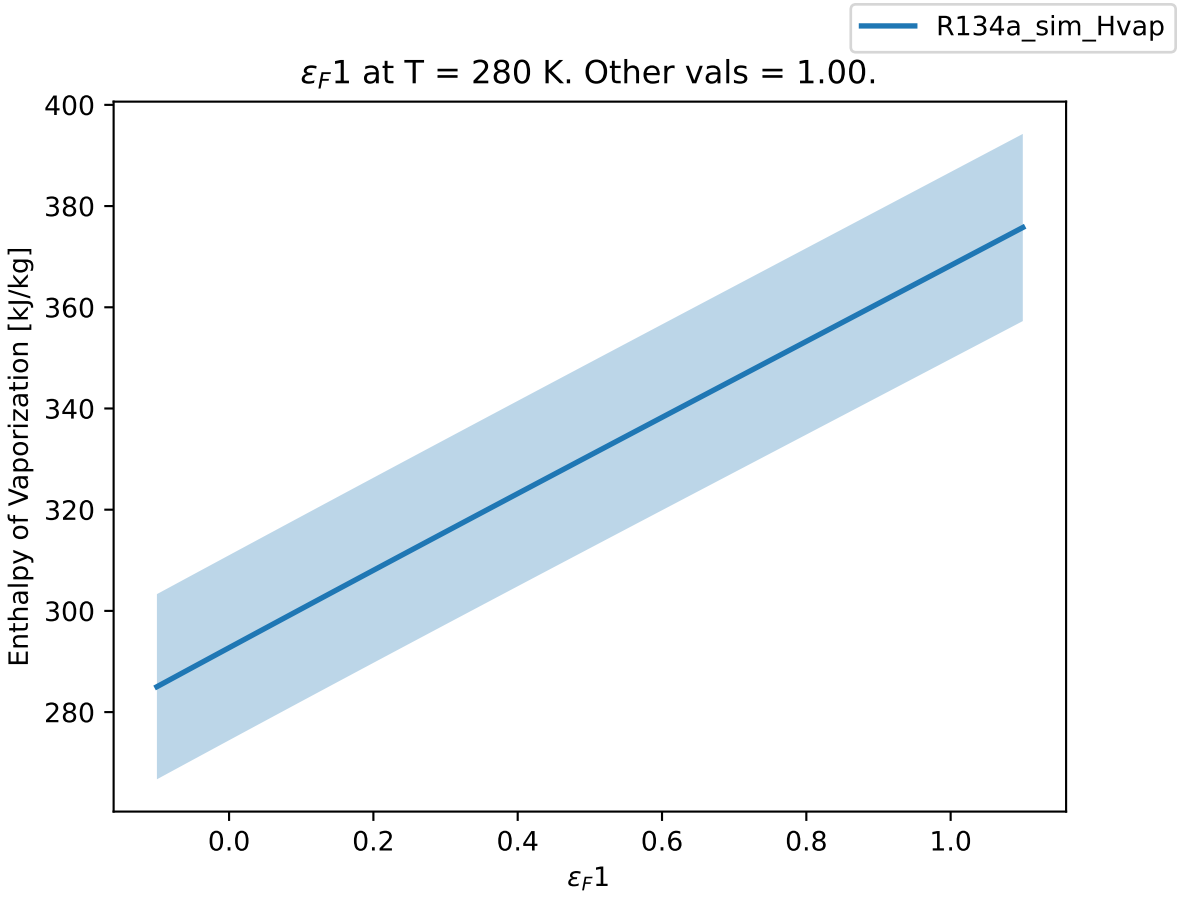

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
220
200
180
160
140
120
100
80
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

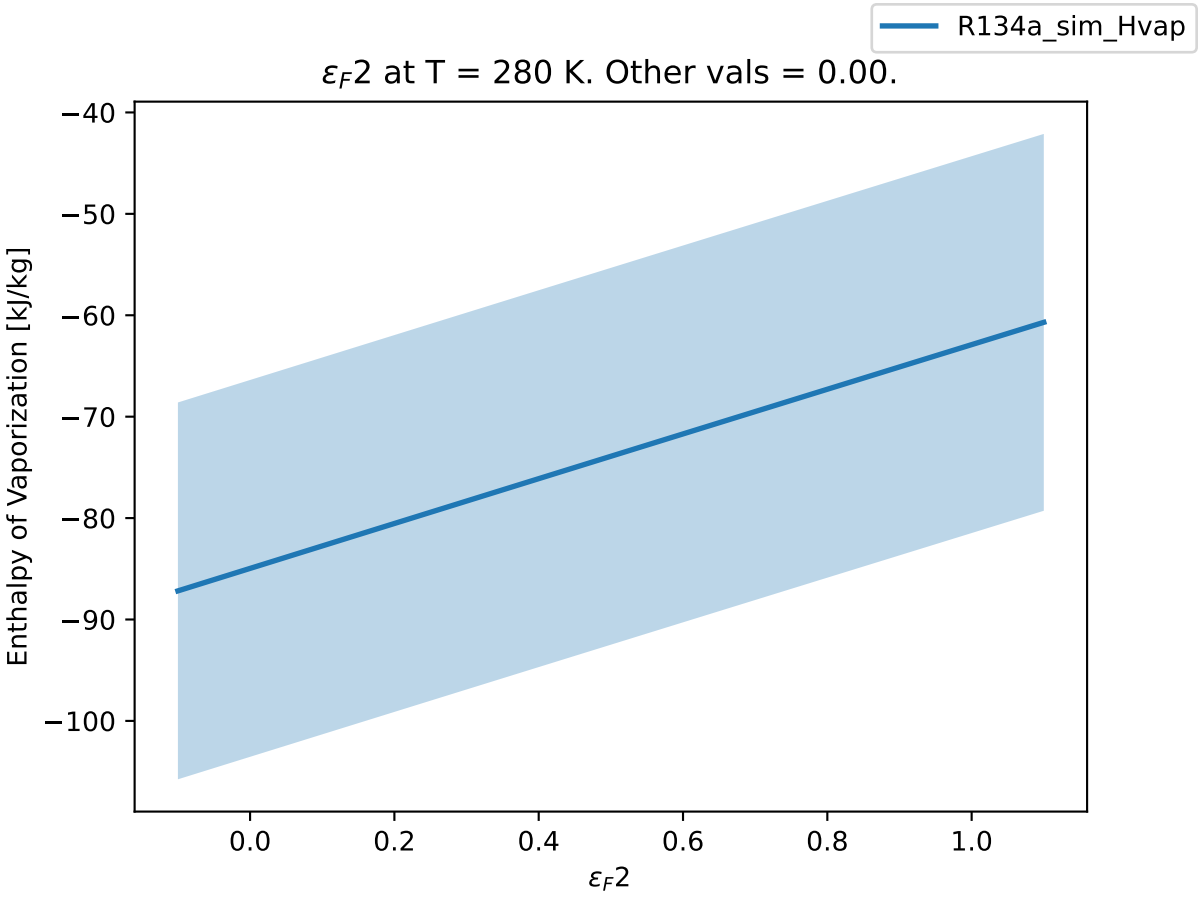

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
240
220
200
180
160
140
120
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

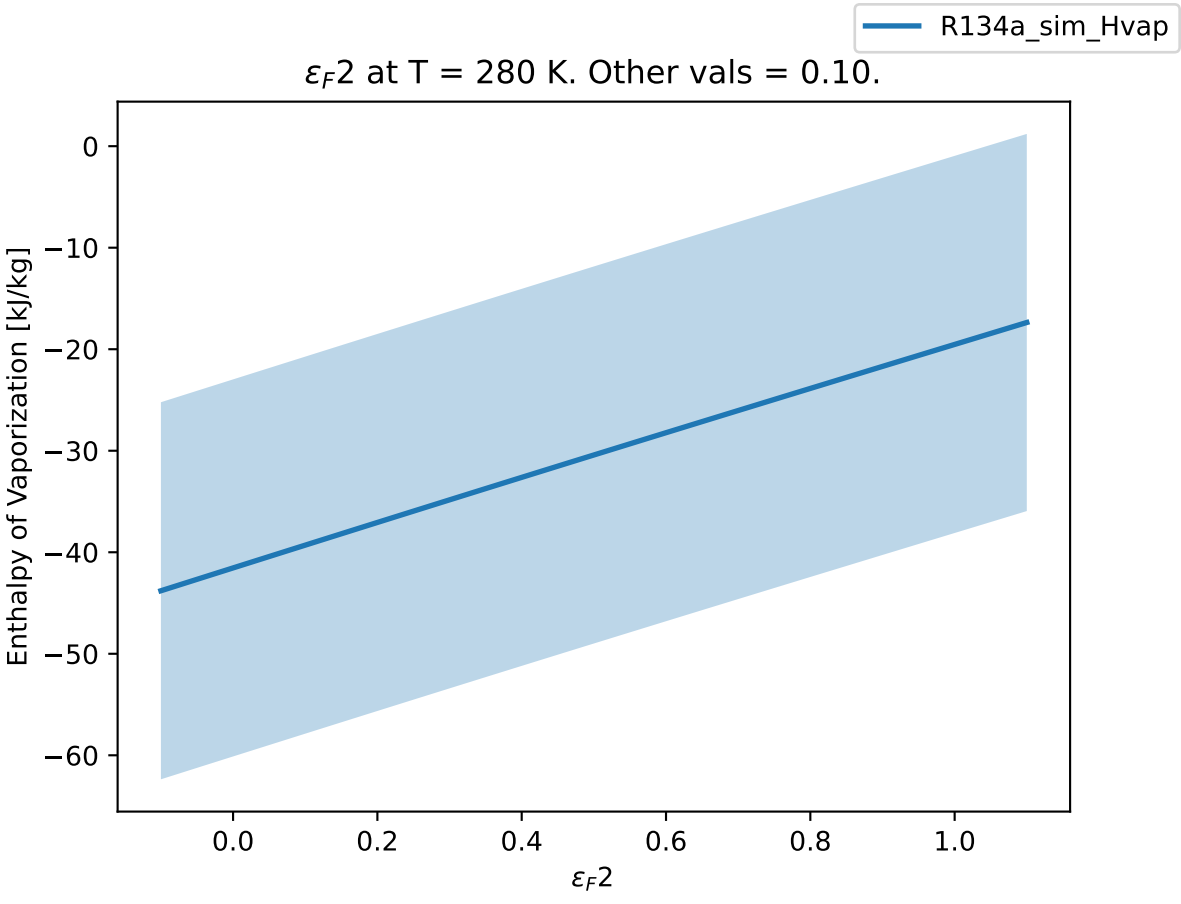

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
280
260
240
220
200
180
160
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

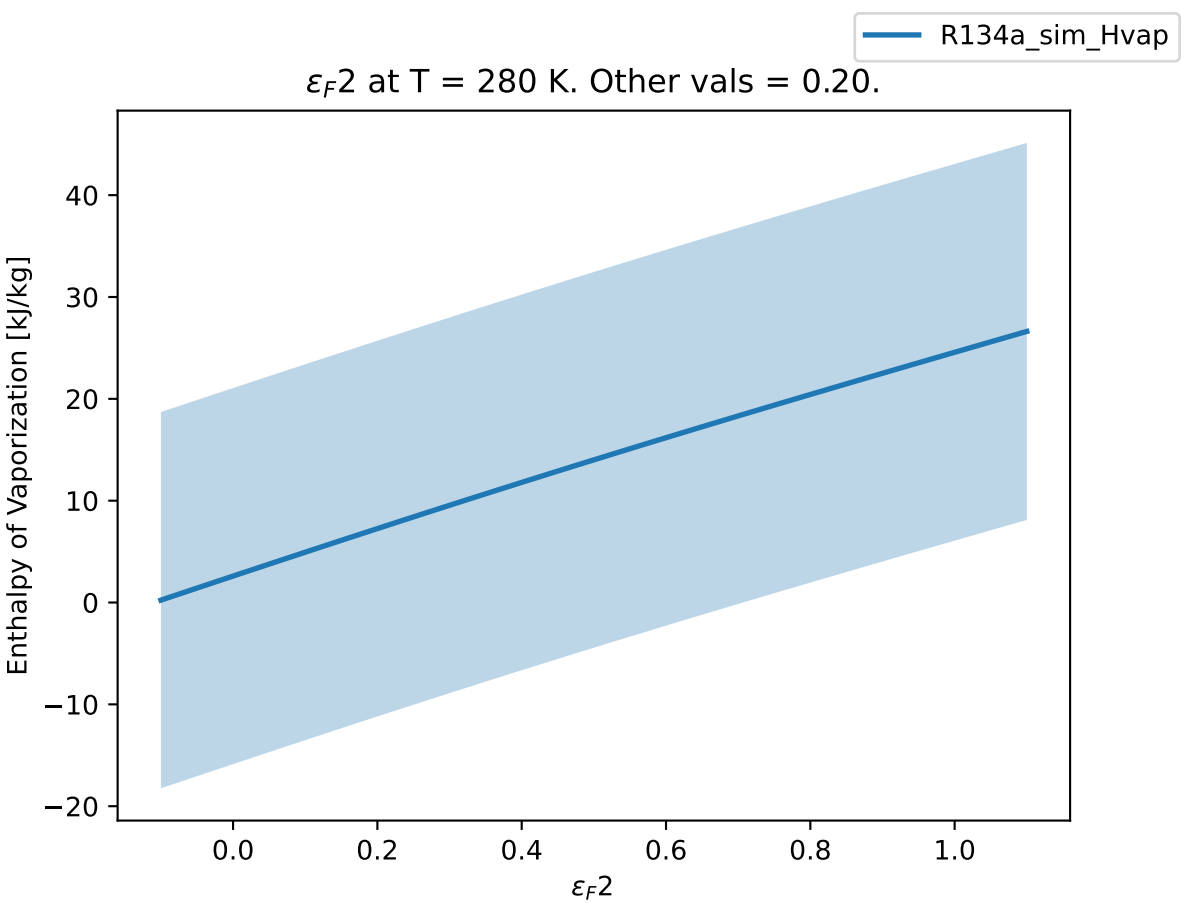

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
220
200
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

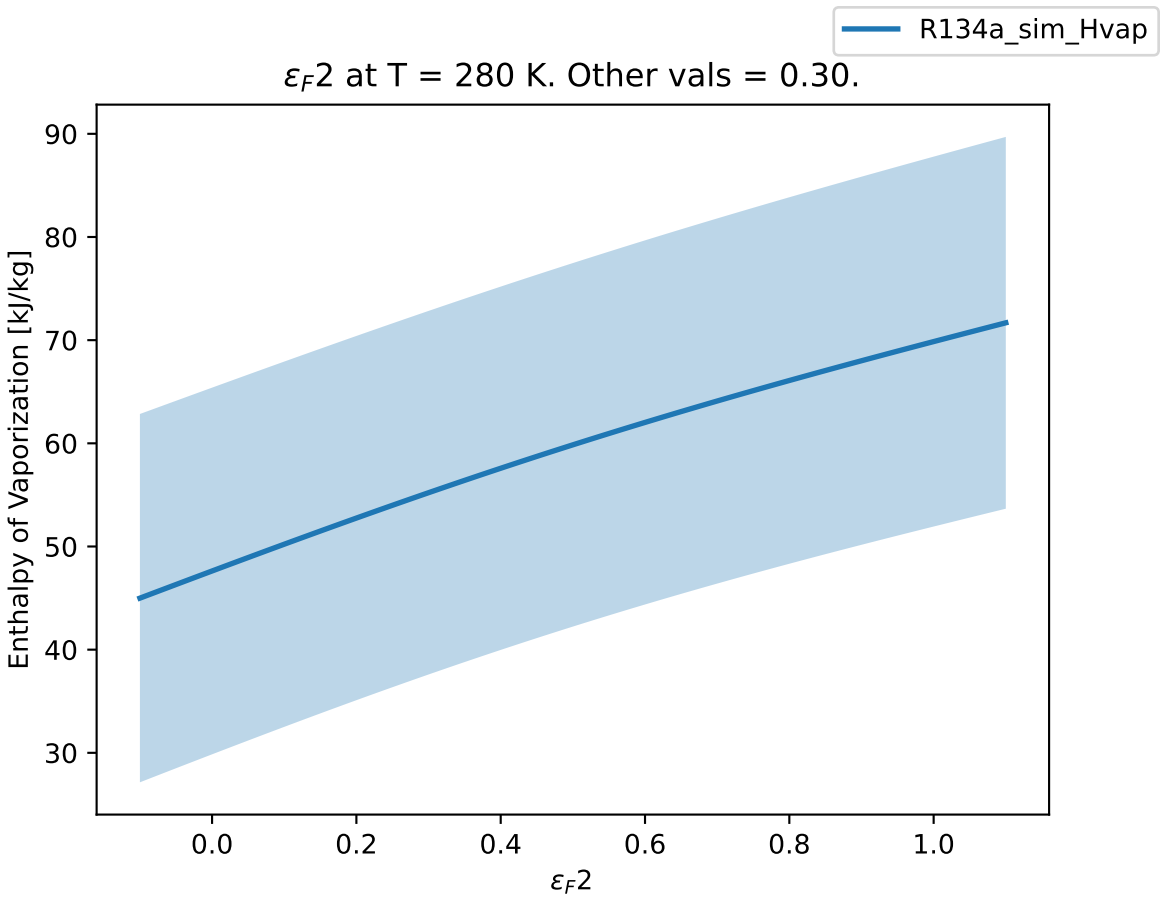

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
360
340
320
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

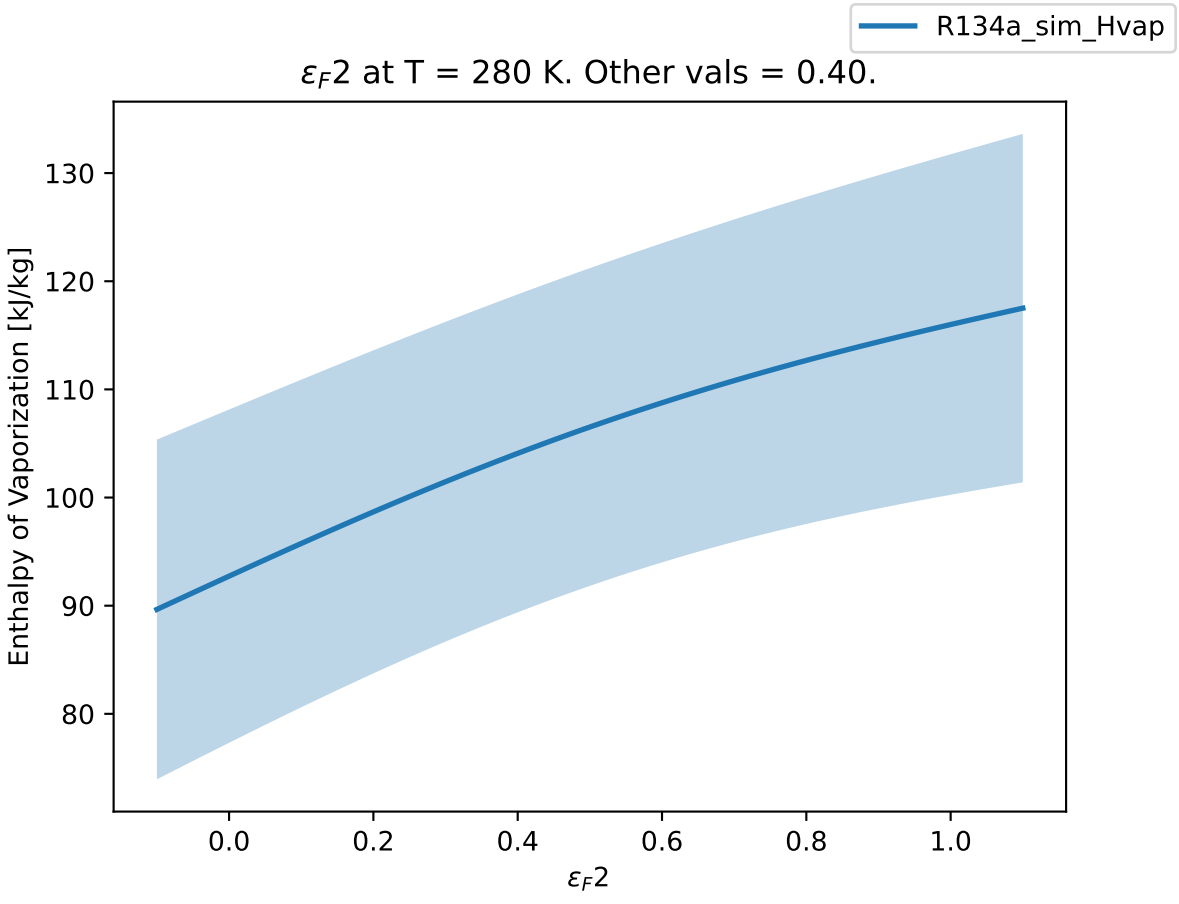

R134a_sim_Hvap
ε_F1 at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
400
380
360
340
320
300
280
0.0
0.2
0.4
0.6
0.8
1.0
ε_F1

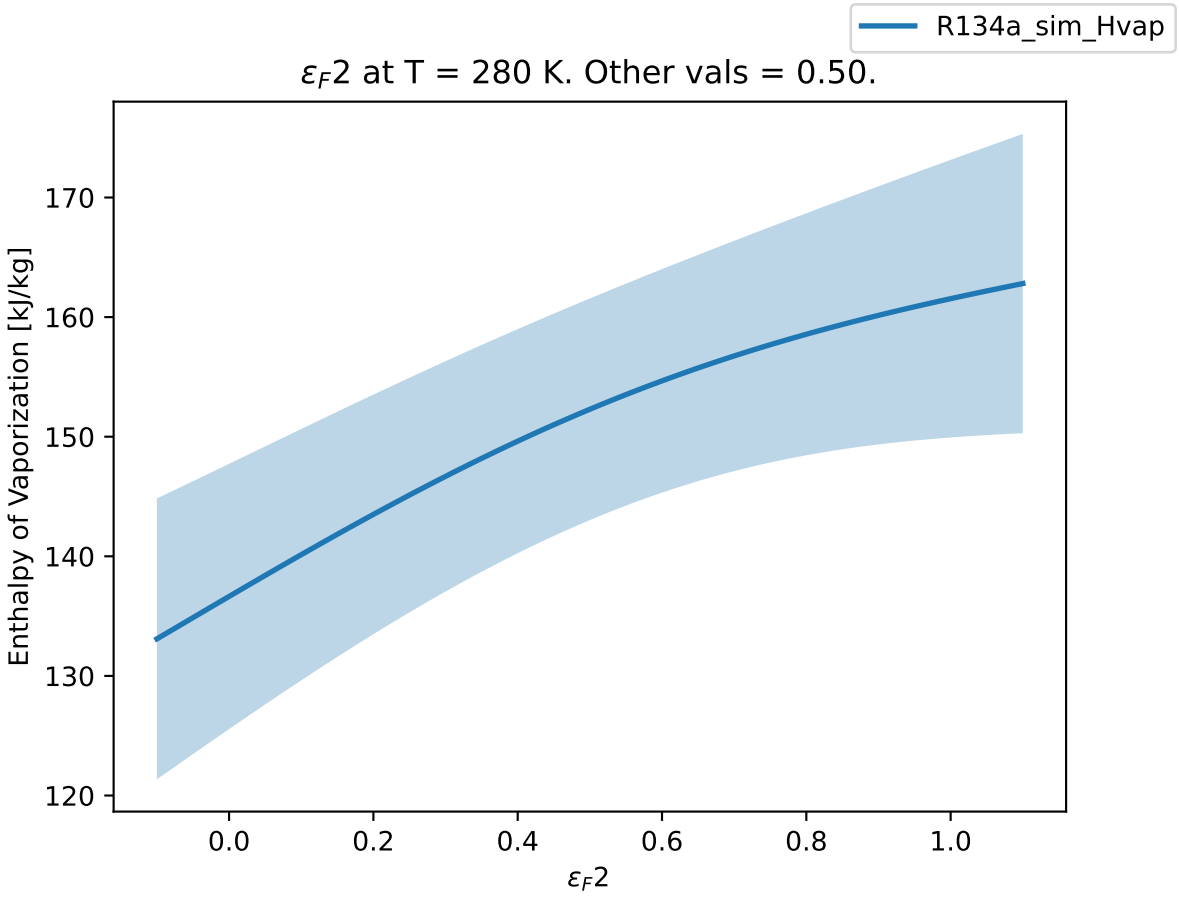

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−40
−50
−60
−70
−80
−90
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

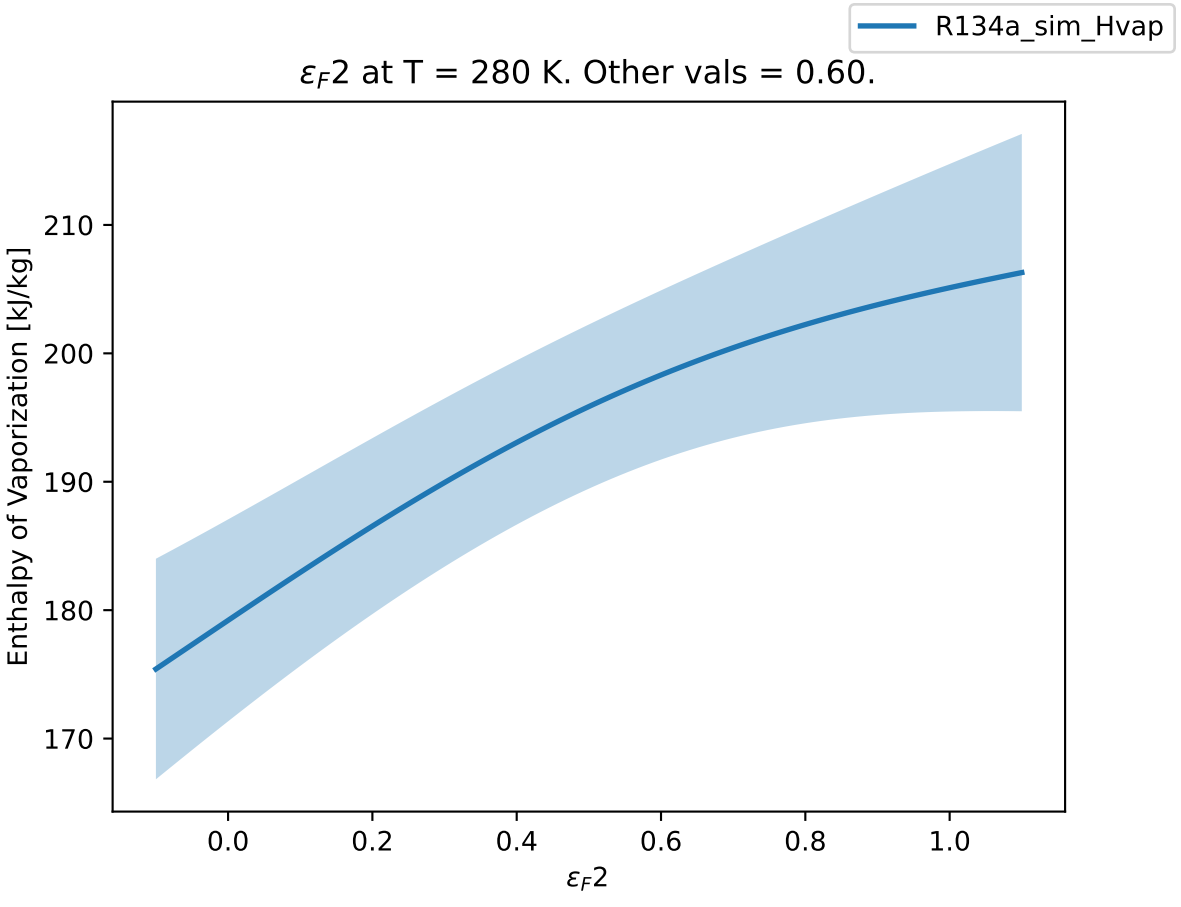

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
0
−10
−20
−30
−40
−50
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

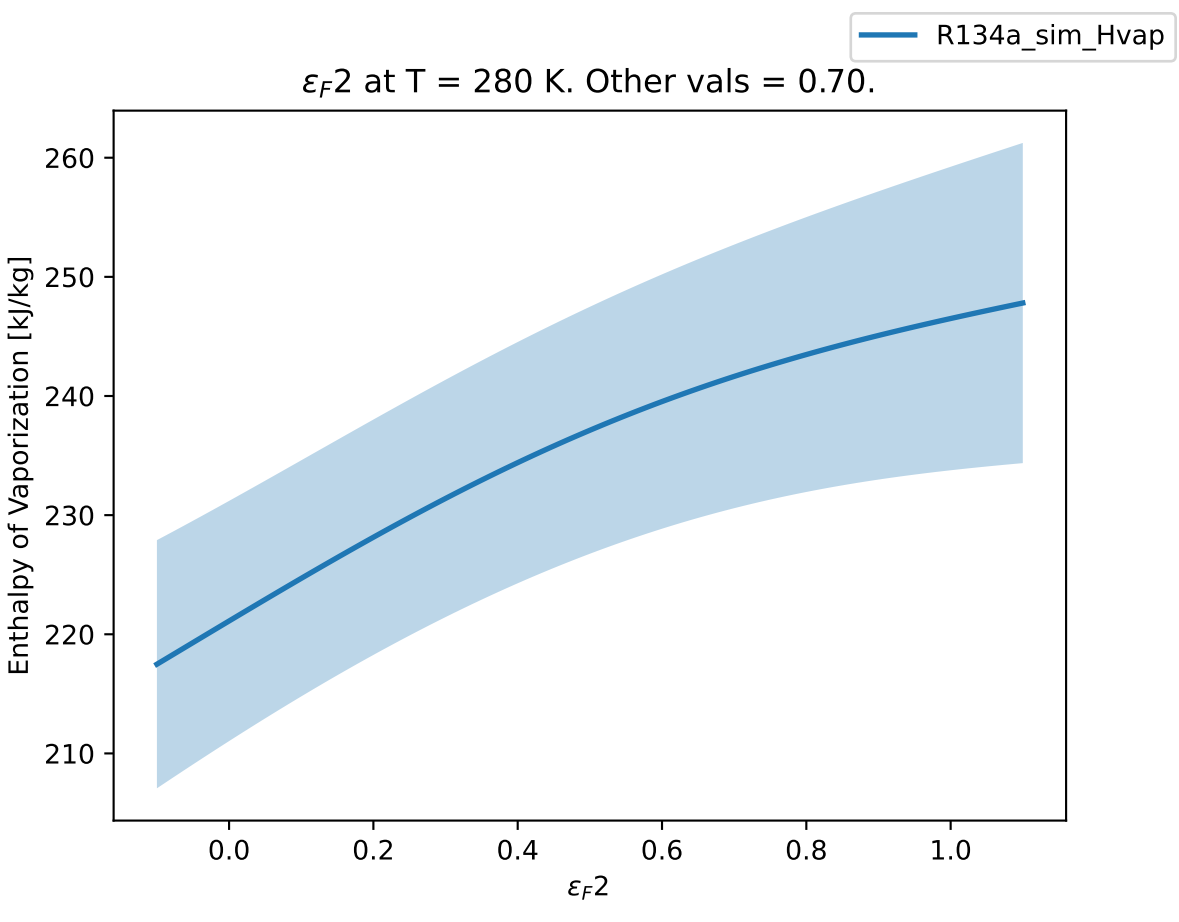

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
40
30
20
10
0
−10
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

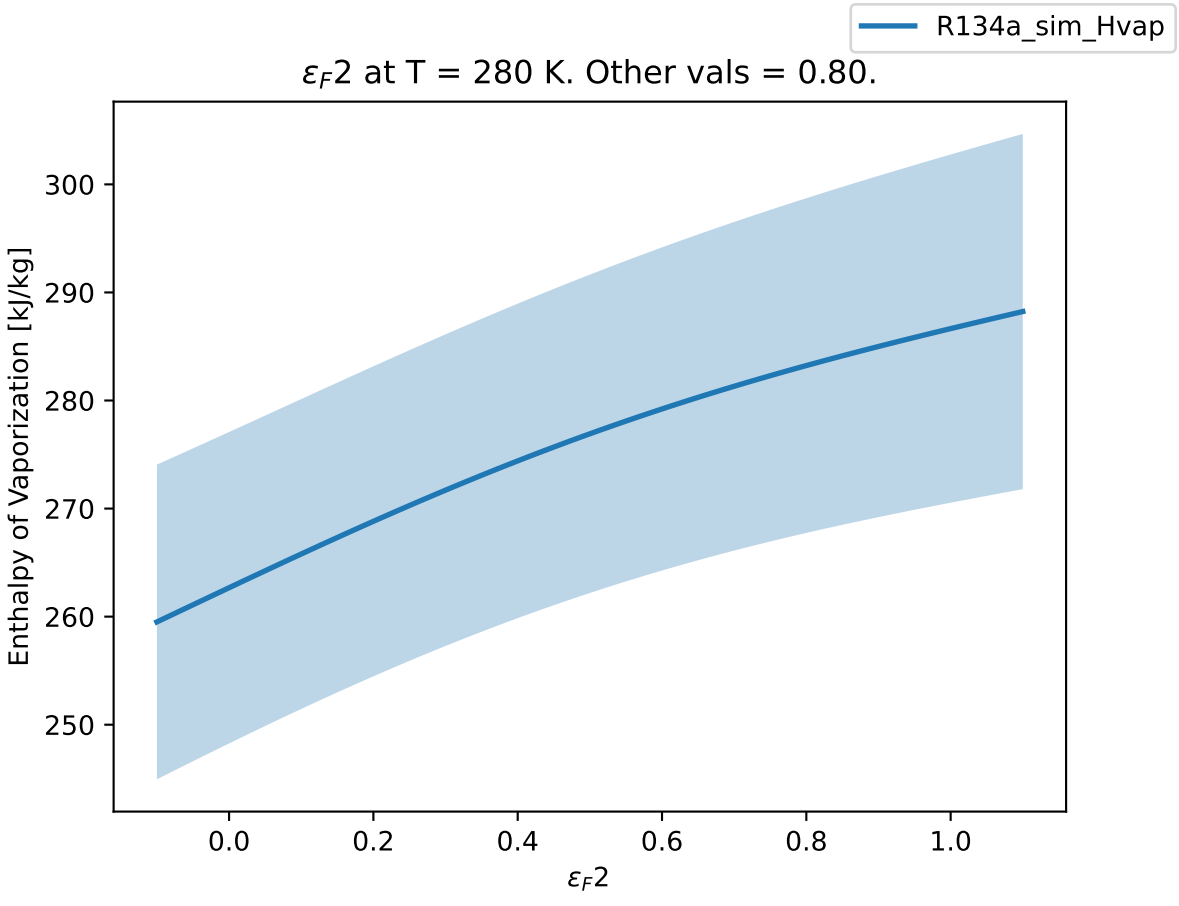

R134a_sim_Hvap
ε_F2 at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
90
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

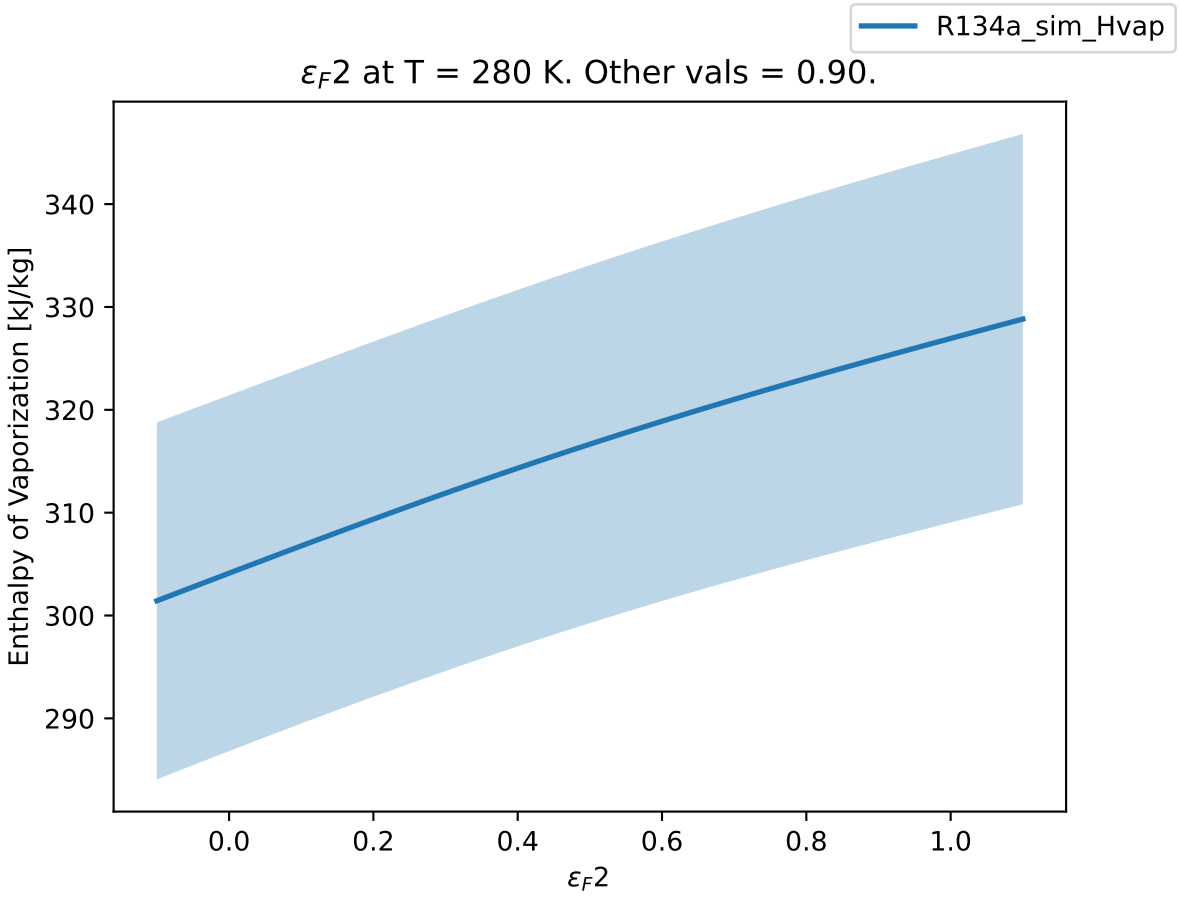

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
130
120
110
100
90
80
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

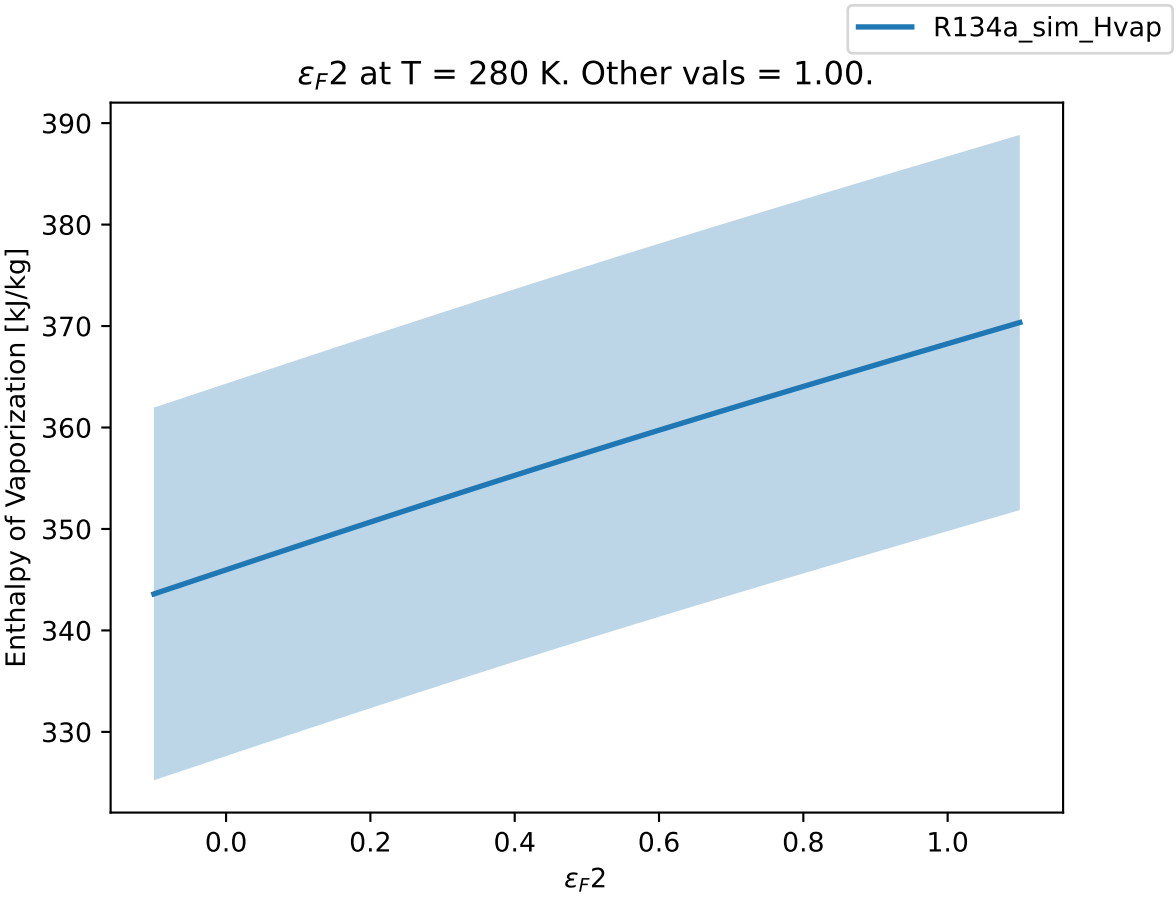

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
120
130
140
150
160
170
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

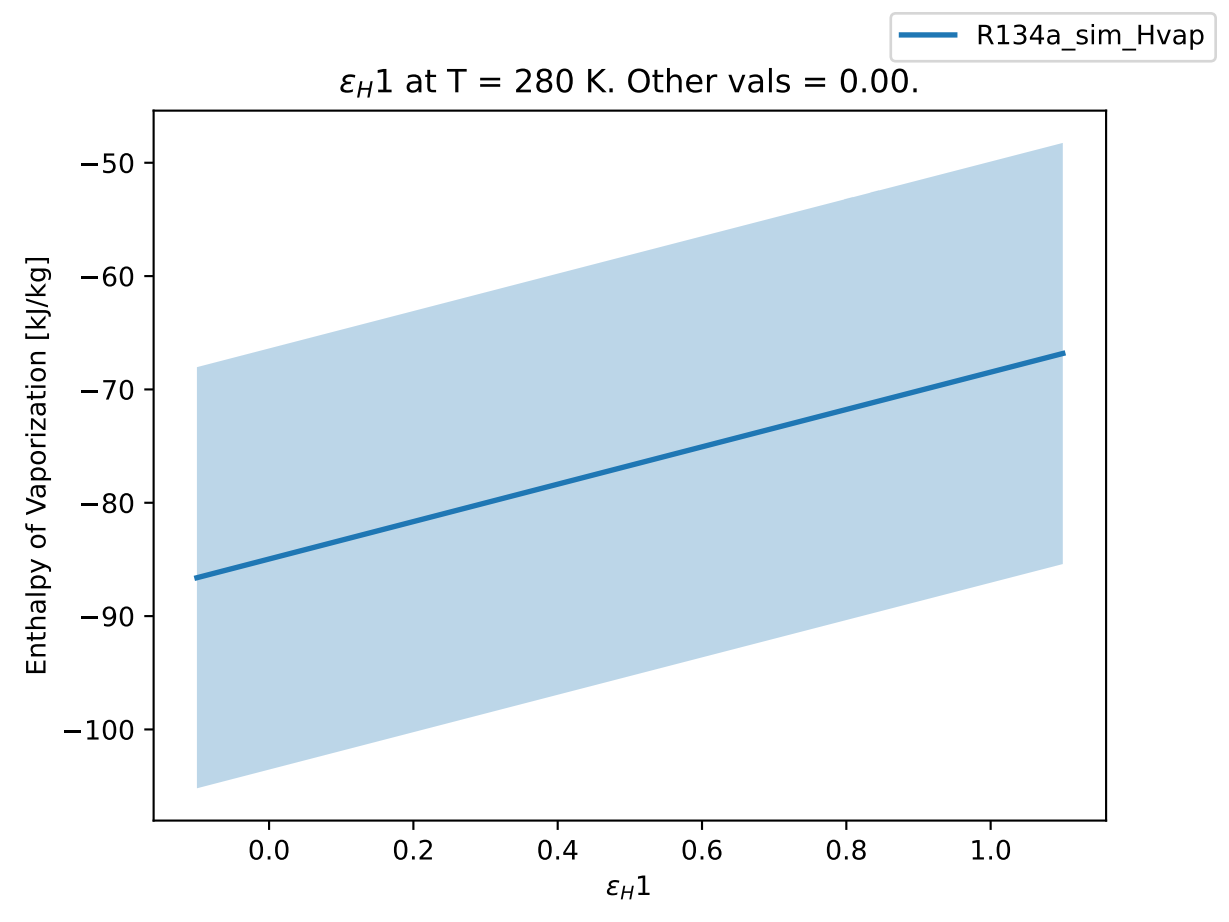

R134a_sim_Hvap
ε_F2 at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
210
200
190
180
170
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

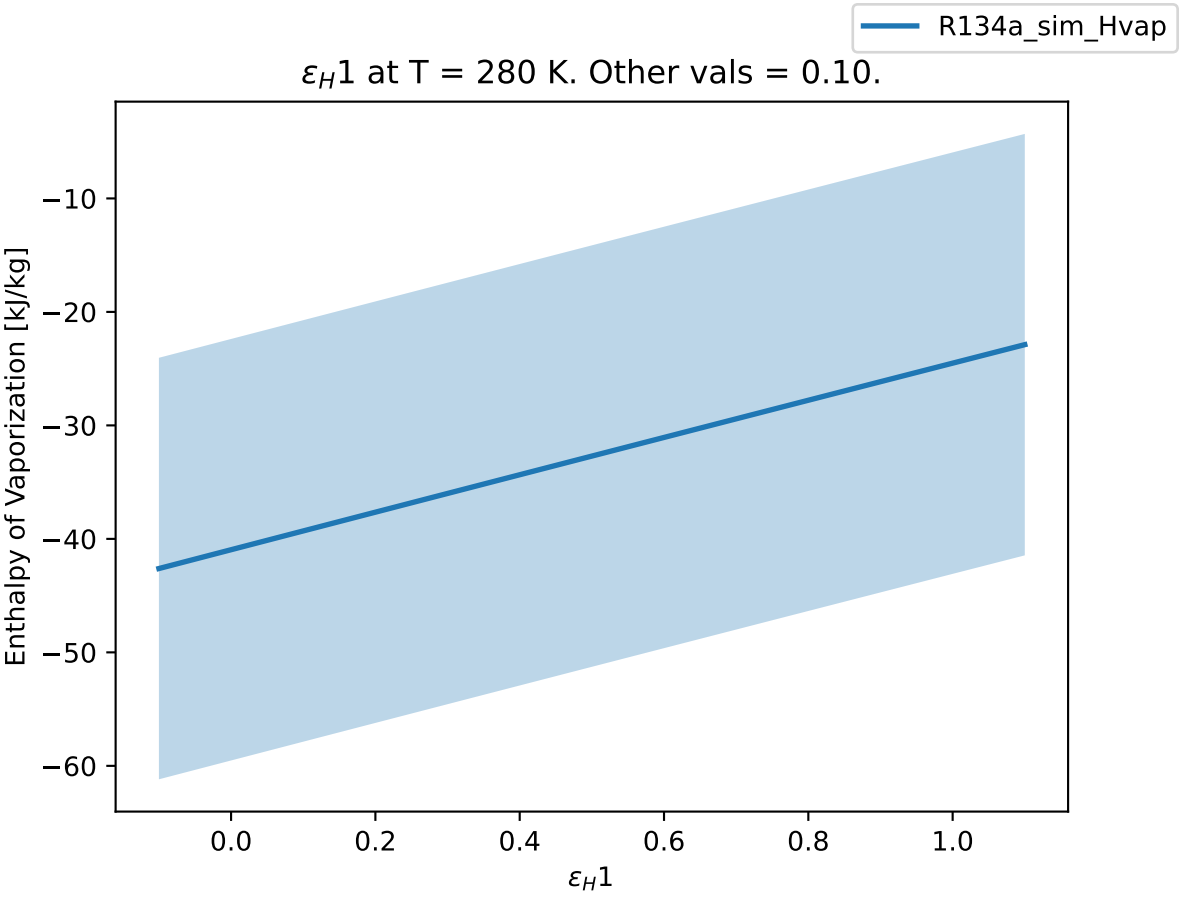

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
260
250
240
230
220
210
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

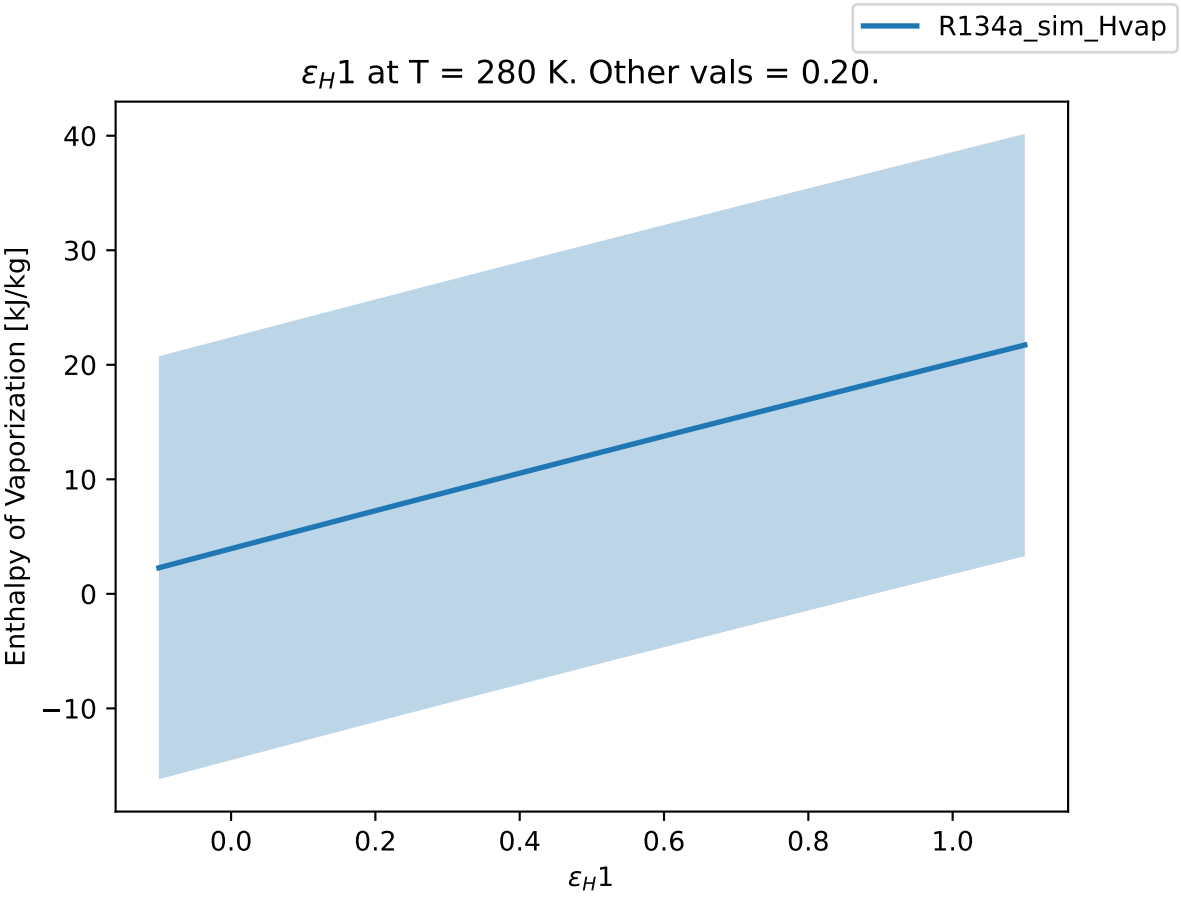

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
300
290
280
270
260
250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

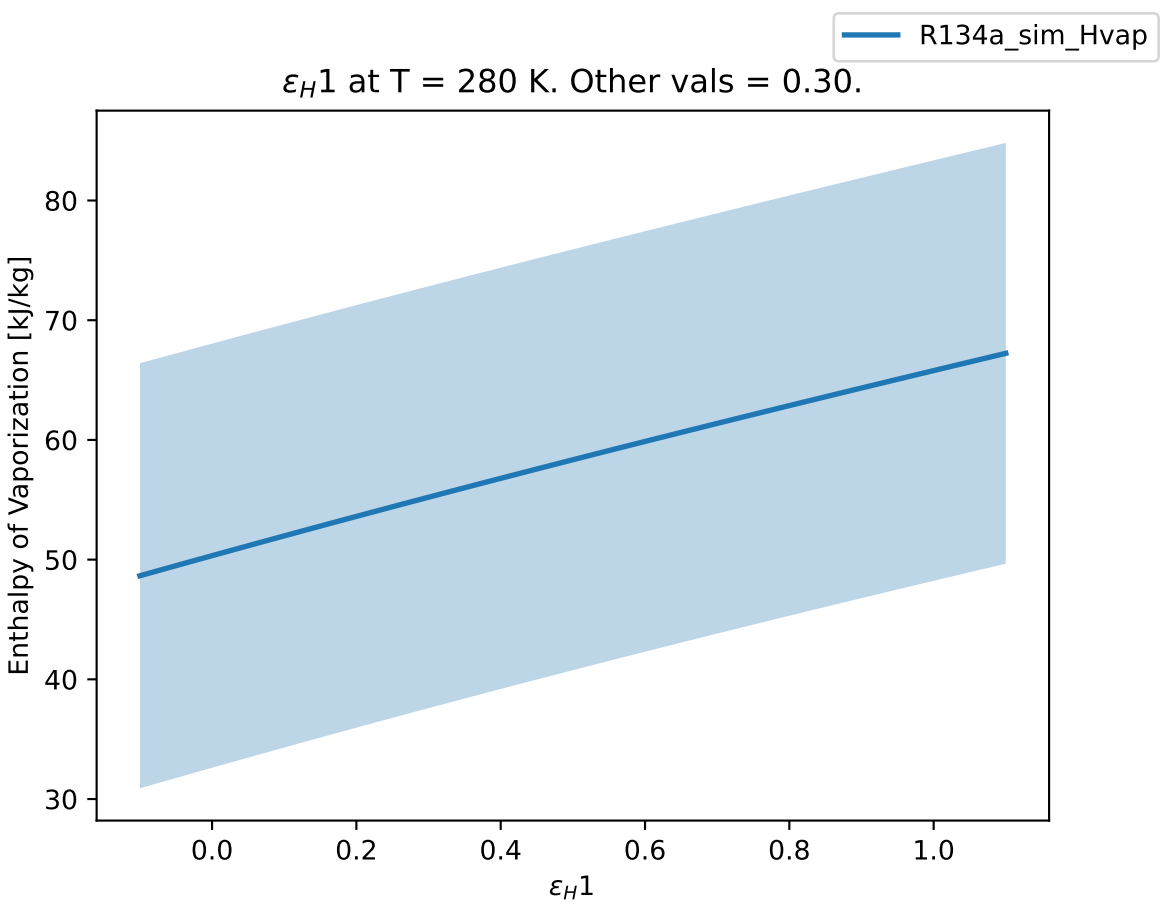

R134a_sim_Hvap
ε_F2 at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
340
330
320
310
300
290
0.0
0.2
0.4
0.6
0.8
1.0
ε_F2

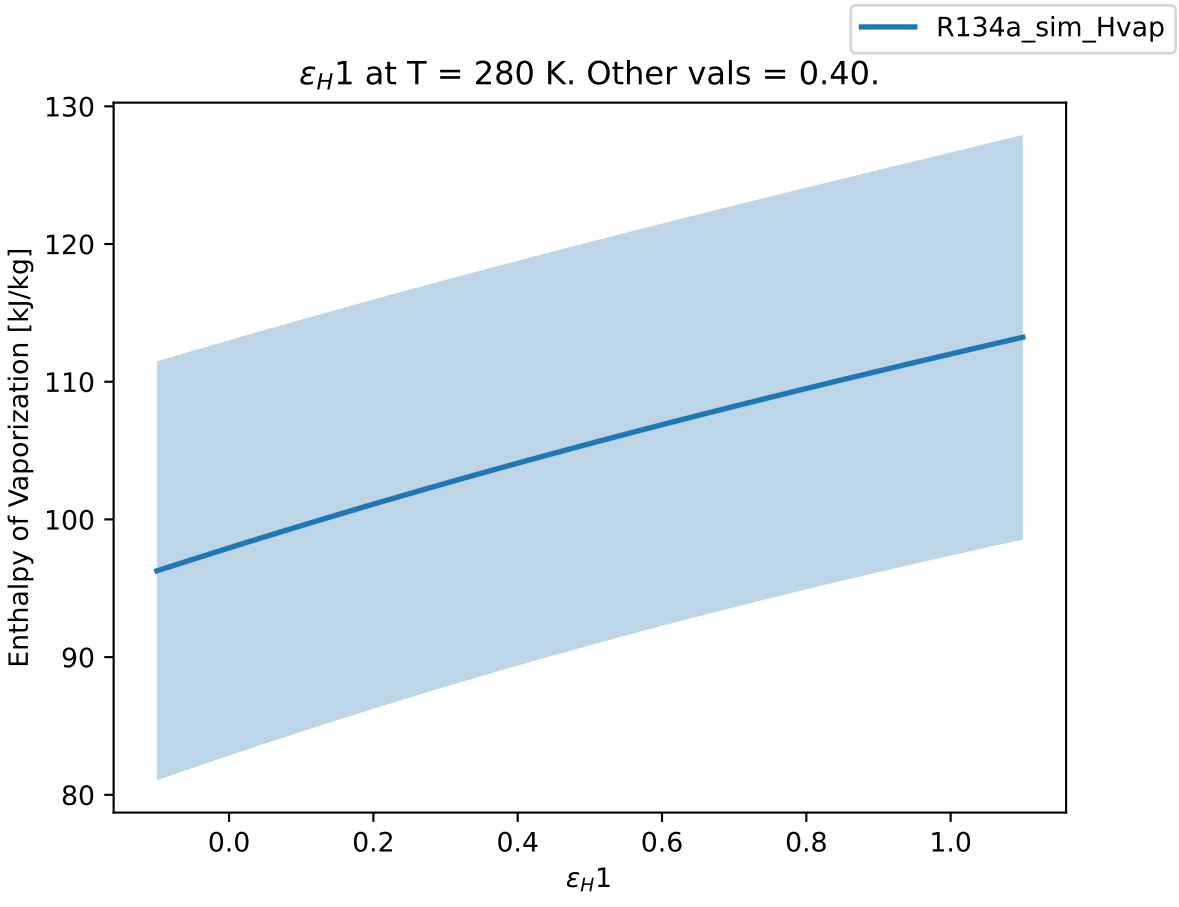

R134a_sim_Hvap
$\varepsilon_F 2$ at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
390
380
370
360
350
340
330
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 2$

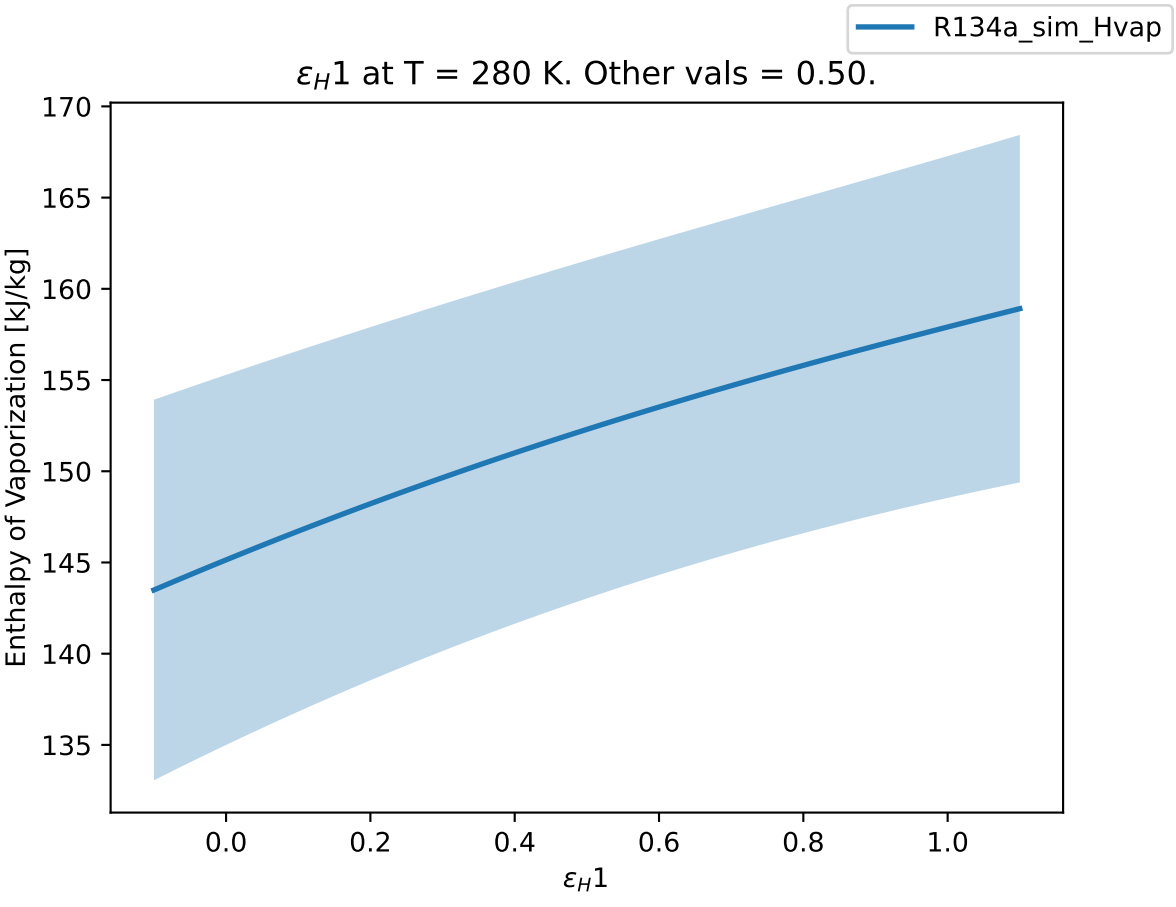

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−50
−60
−70
−80
−90
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

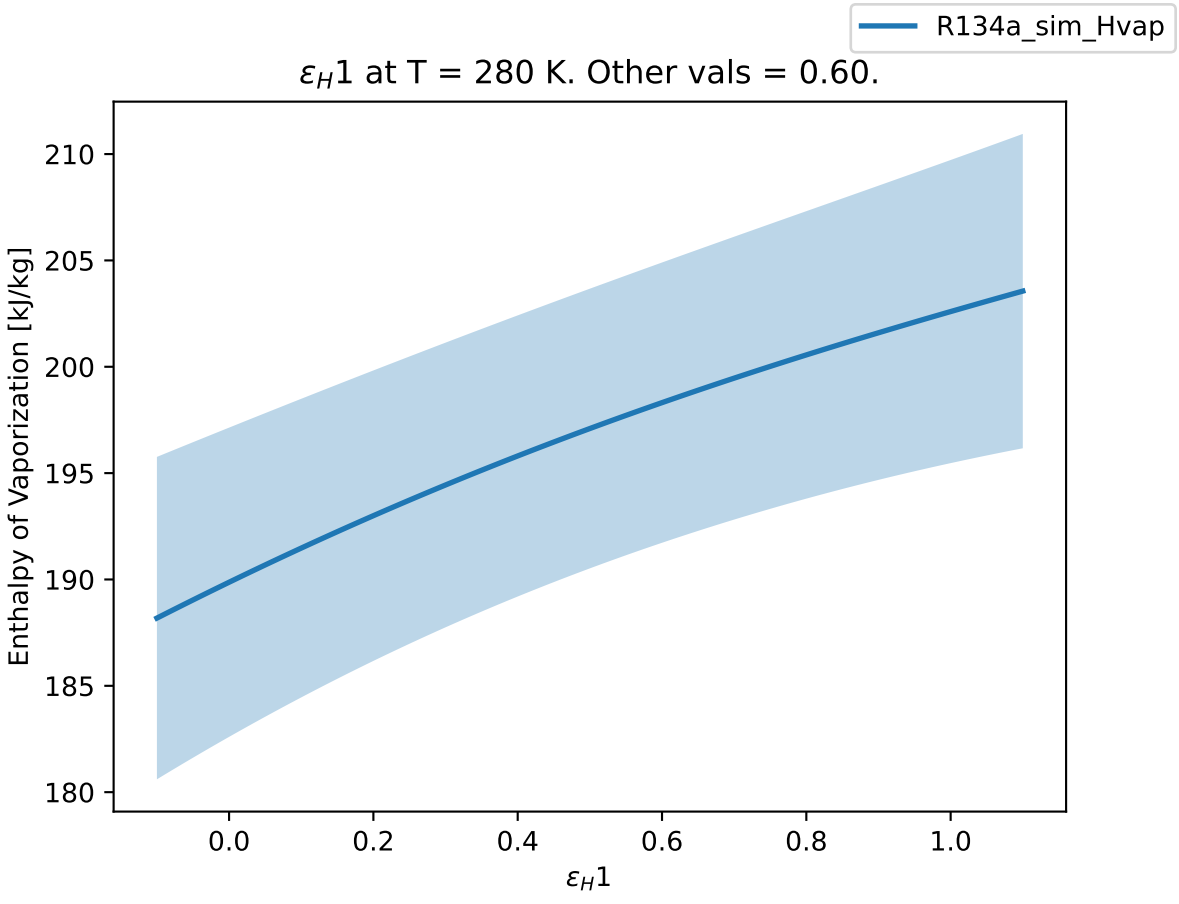

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
−10
−20
−30
−40
−50
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

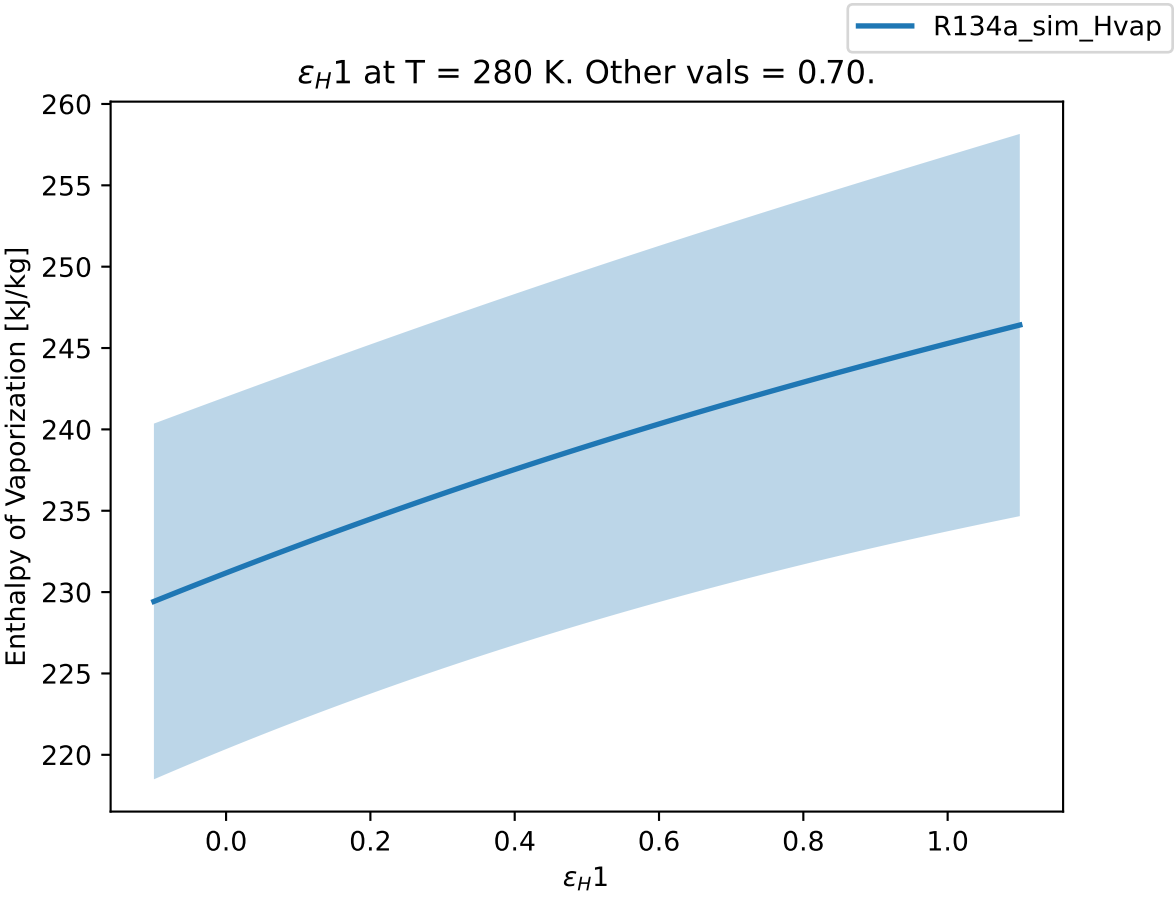

R134a_sim_Hvap
ε_H1 at T = 280 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
40
30
20
10
0
−10
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

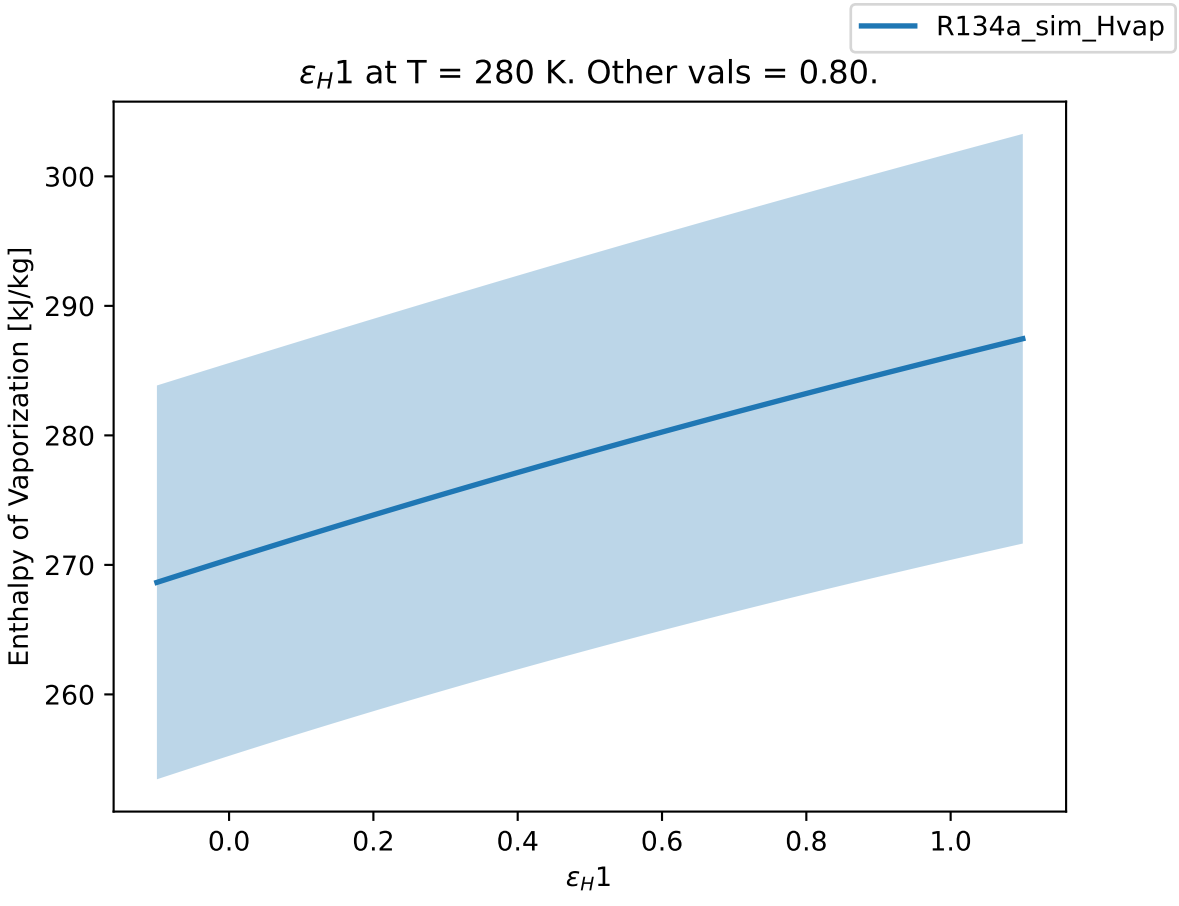

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

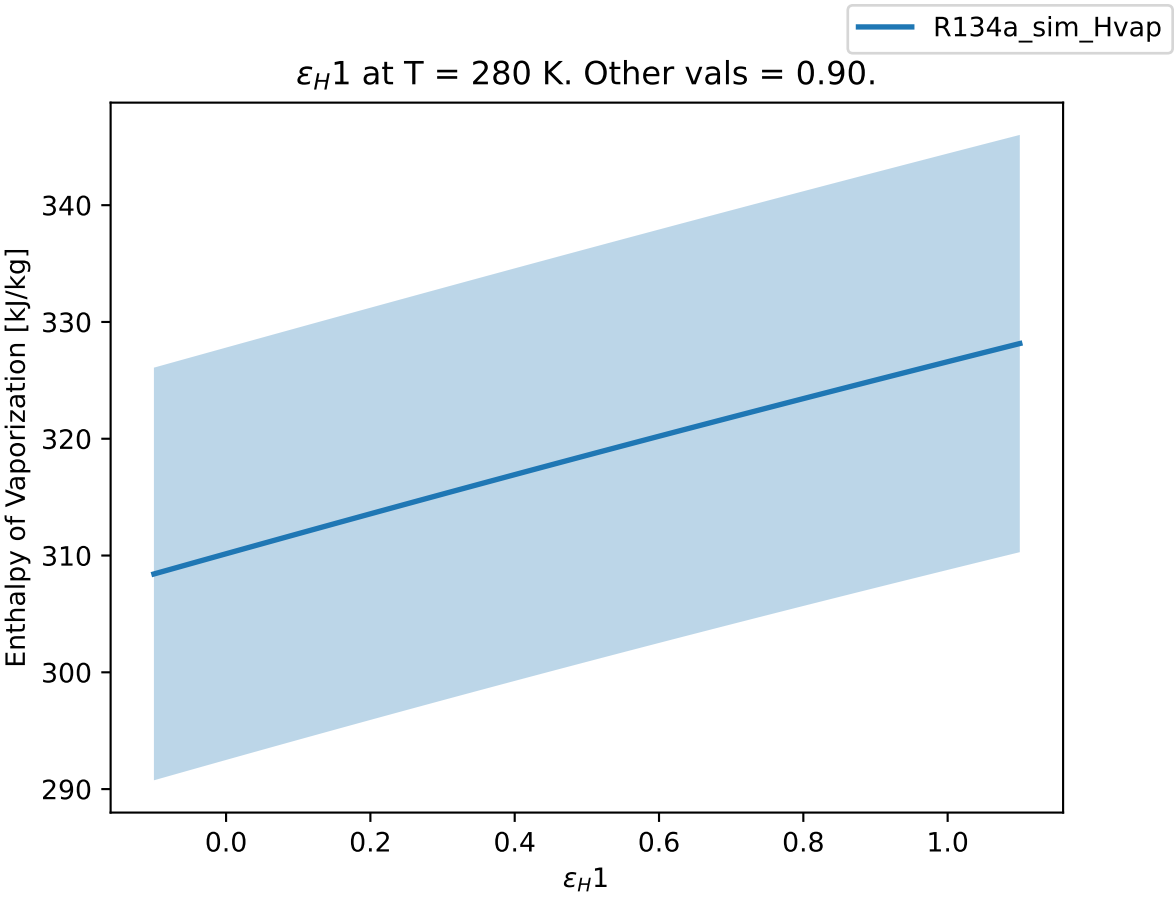

R134a_sim_Hvap
ε_H1 at T = 280 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
130
120
110
100
90
80
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

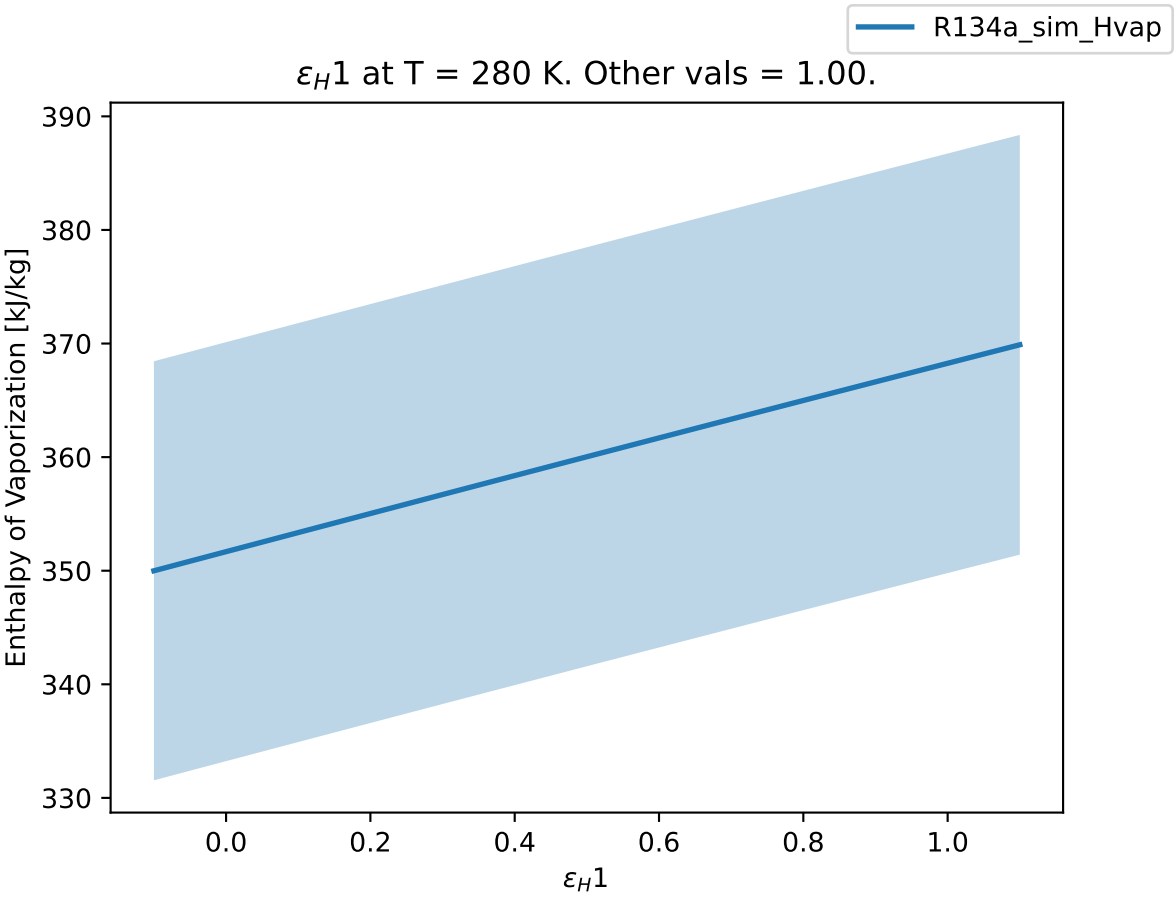

R134a_sim_Hvap
ε_H1 at T = 280 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
170
165
160
155
150
145
140
135
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

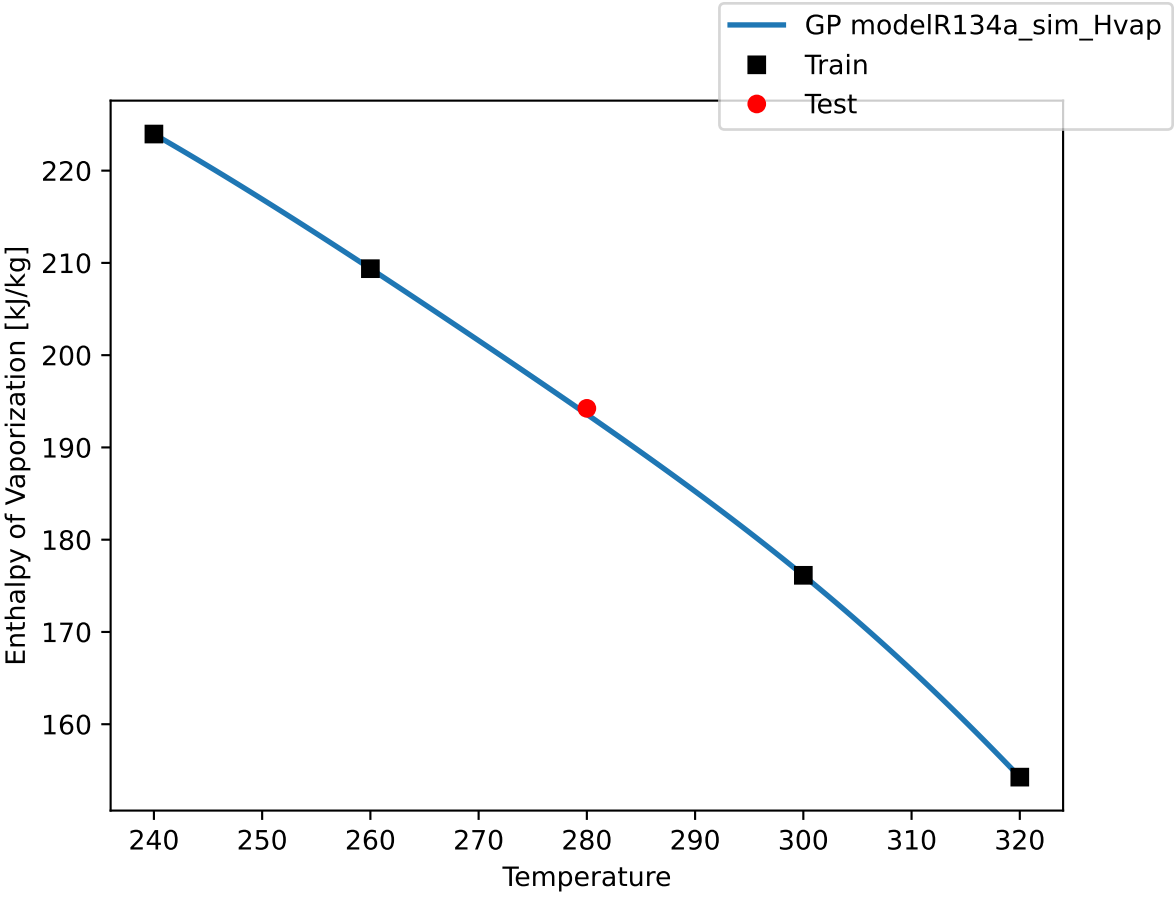

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
210
205
200
195
190
185
180
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

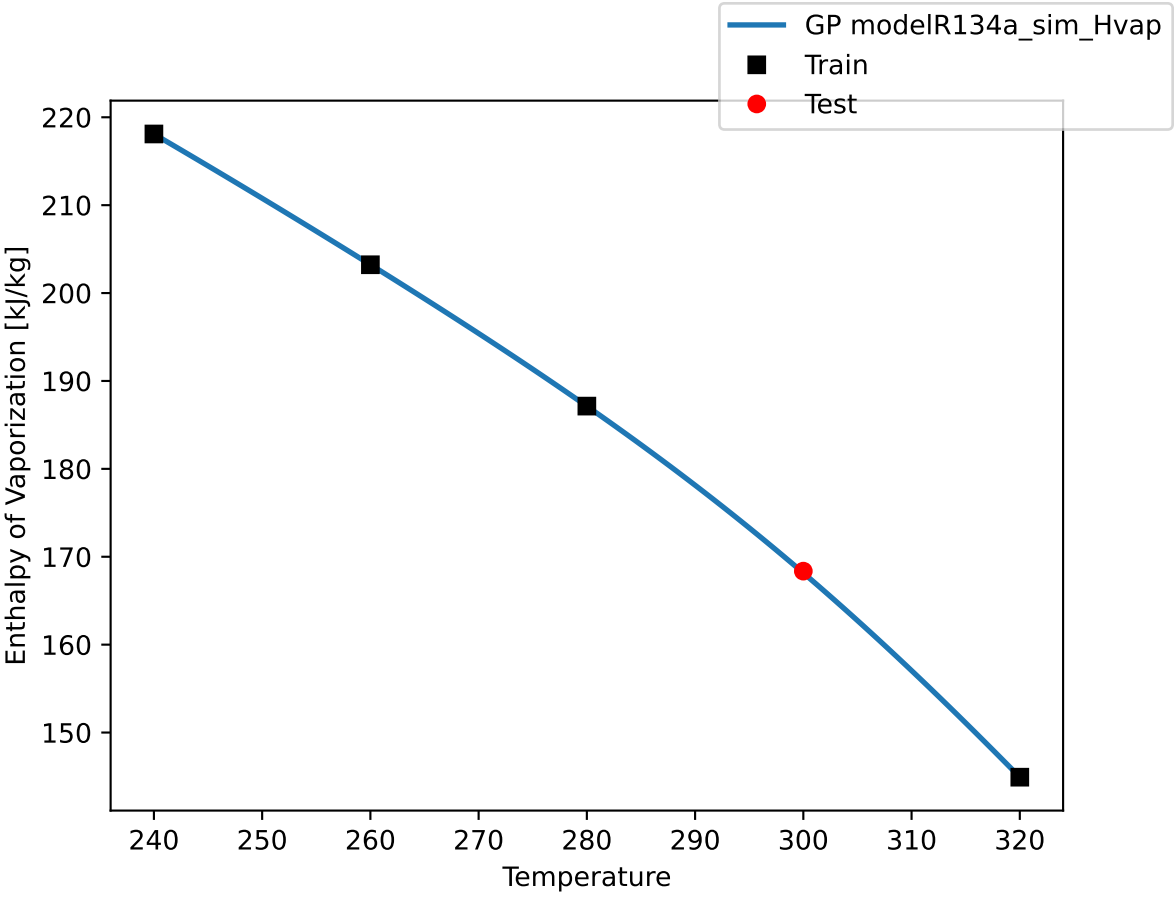

R134a_sim_Hvap
ε_H1 at T = 280 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
260
255
250
245
240
235
230
225
220
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

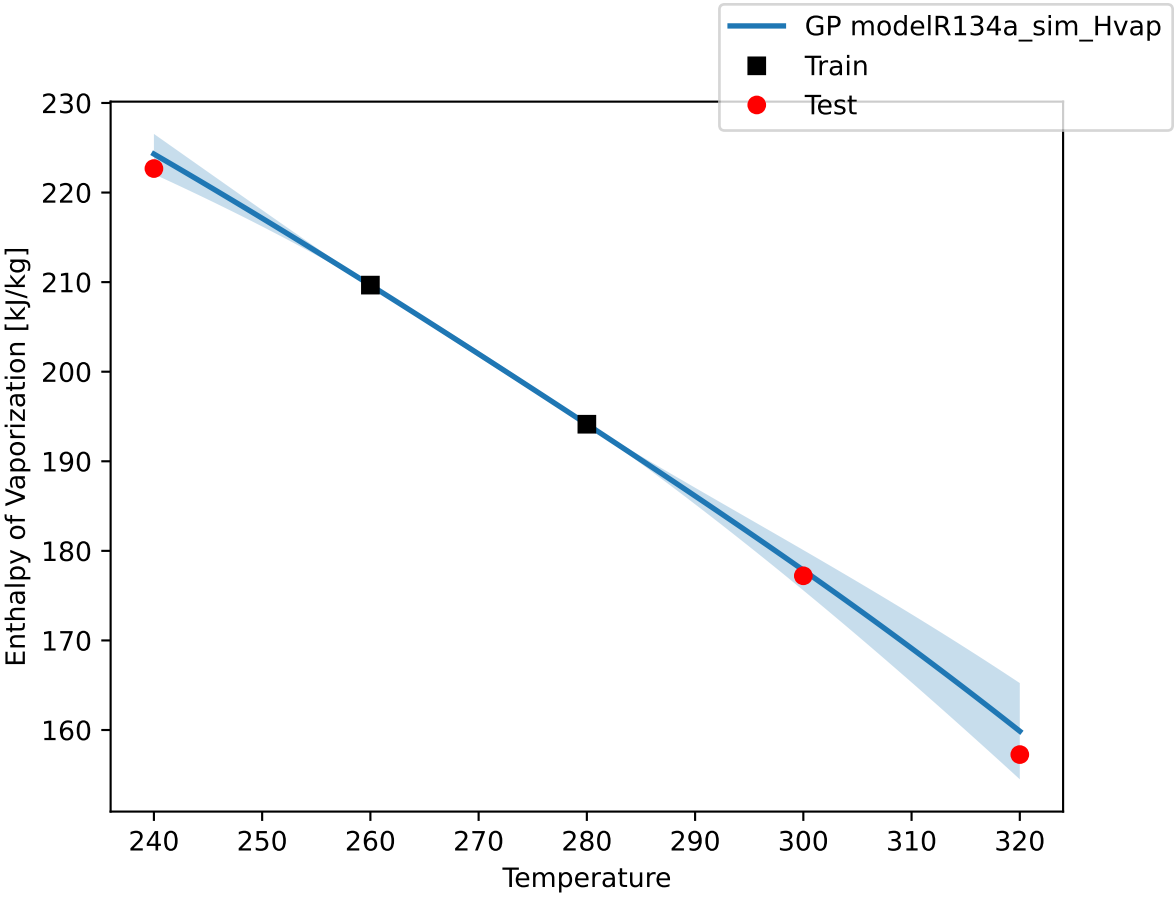

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
300
290
280
270
260
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

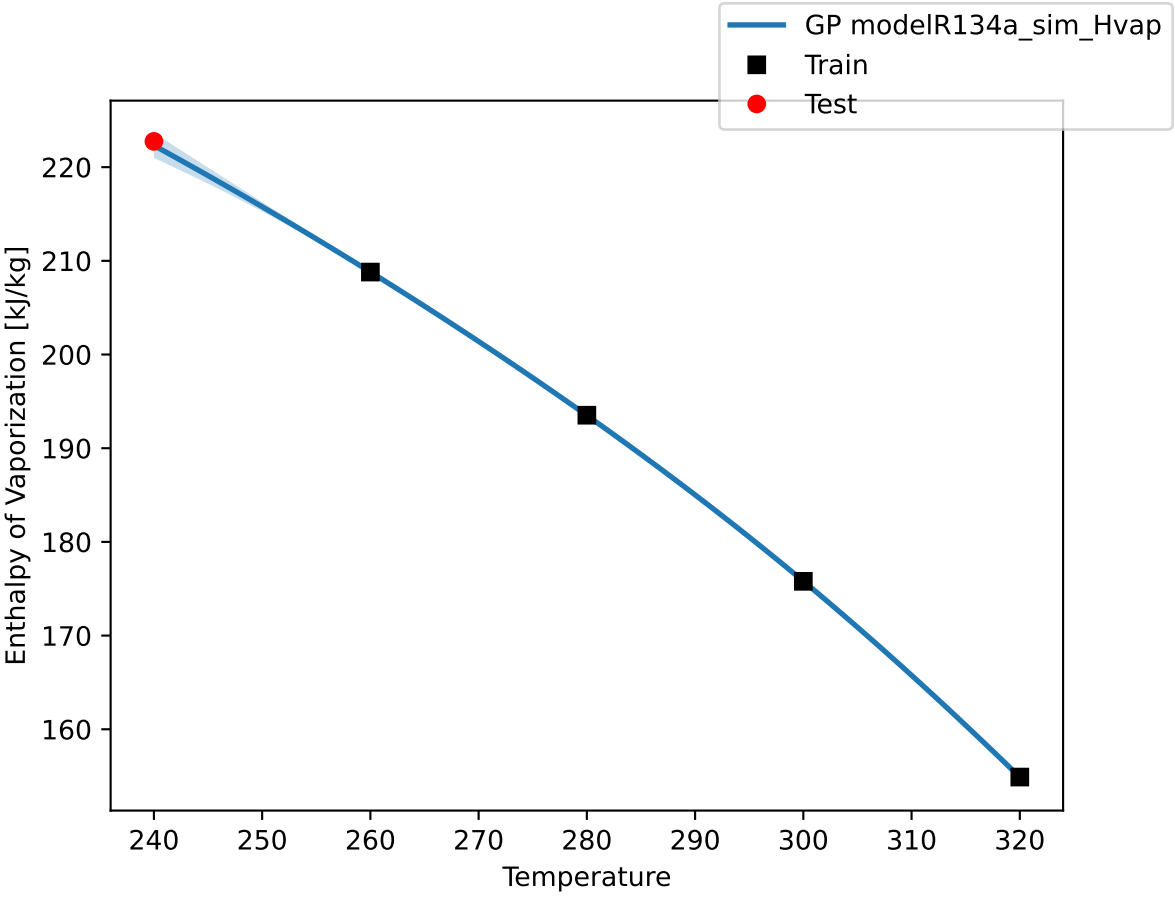

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
340
330
320
310
300
290
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

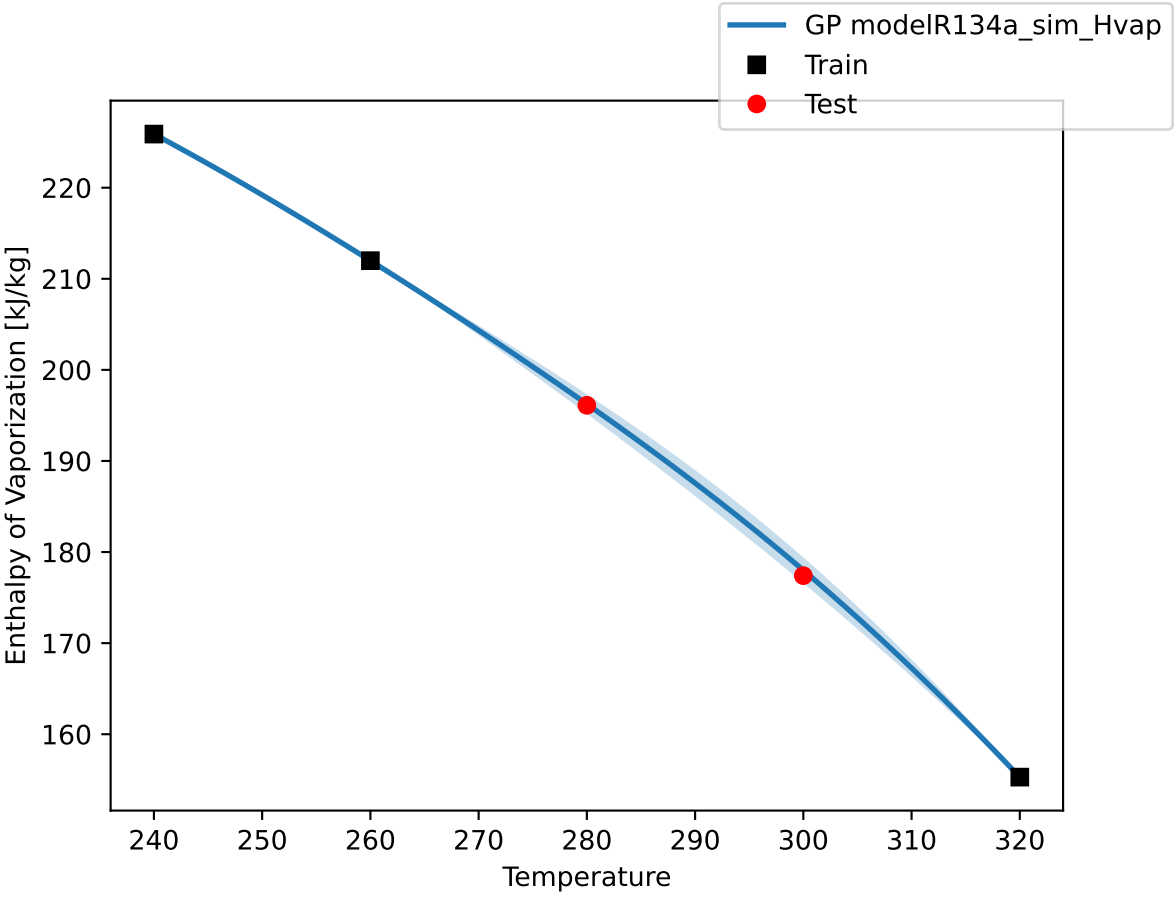

R134a_sim_Hvap
$\varepsilon_H 1$ at T = 280 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
390
380
370
360
350
340
330
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

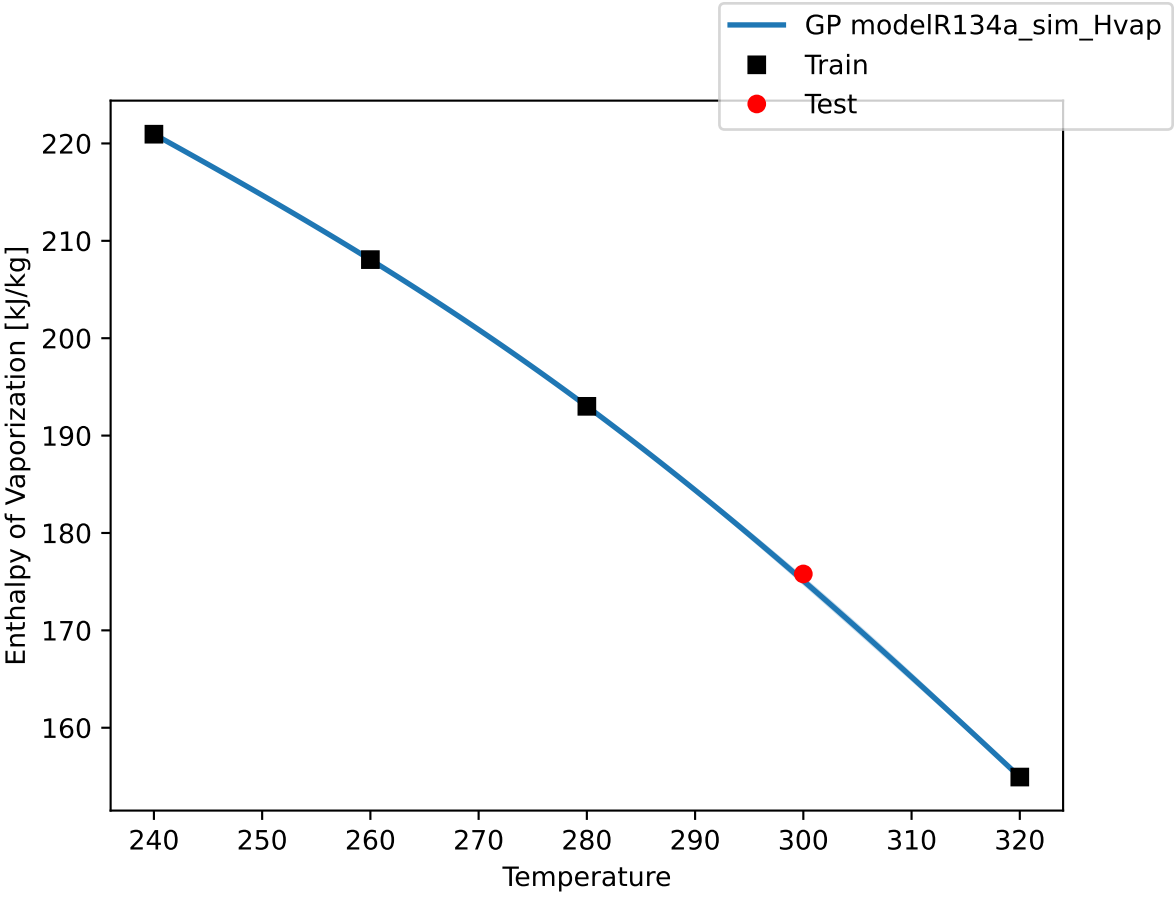

GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
220
210
200
190
180
170
160
240
250
260
270
280
290
300
310
320
Temperature

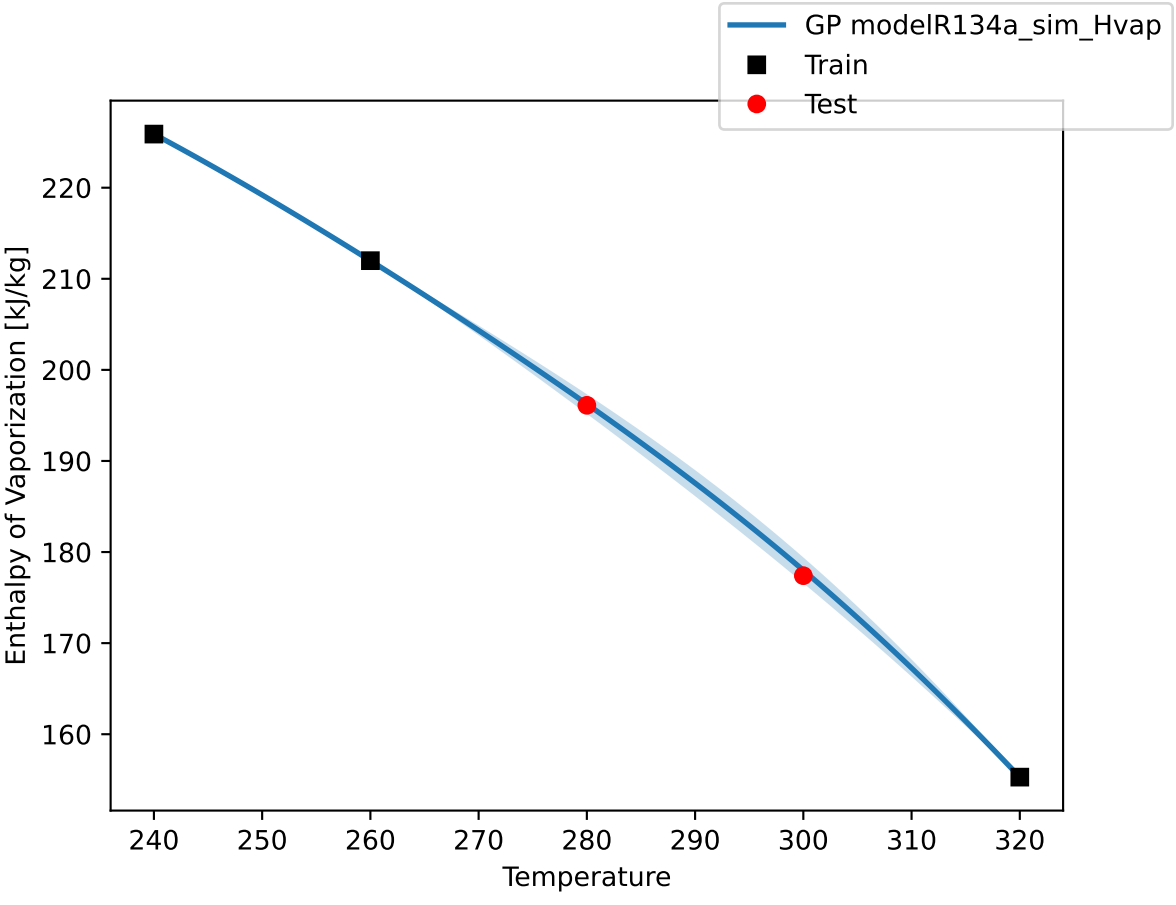

GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
220
210
200
190
180
170
160
150
240
250
260
270
280
290
300
310
320
Temperature

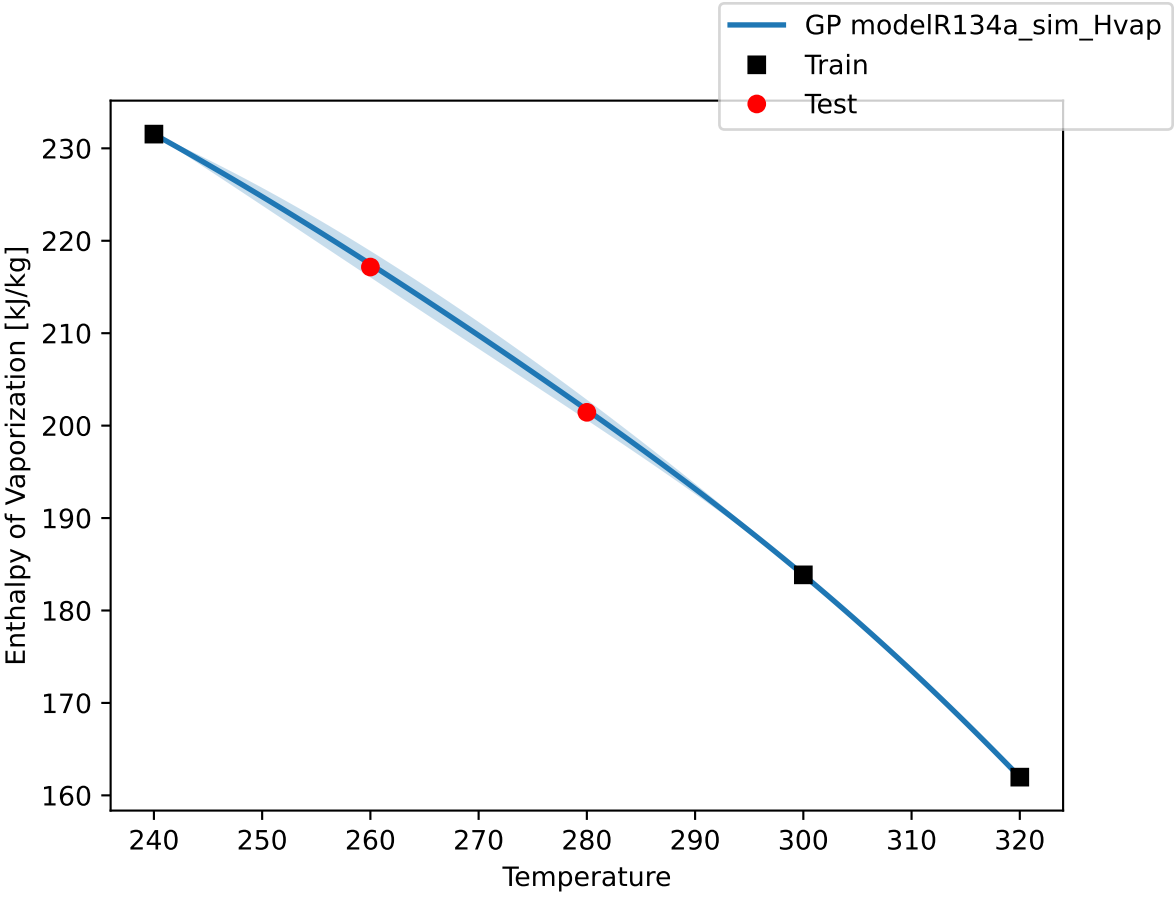

GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
Temperature
230
220
210
200
190
180
170
160
240
250
260
270
280
290
300
310
320


GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
220
210
200
190
180
170
160
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
220
210
200
190
180
170
160
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
220
210
200
190
180
170
160
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
220
210
200
190
180
170
160
240
250
260
270
280
290
300
310
320
Temperature


GP modelR134a_sim_Hvap
Train
Test
Enthalpy of Vaporization [kJ/kg]
230
220
210
200
190
180
170
160
240
250
260
270
280
290
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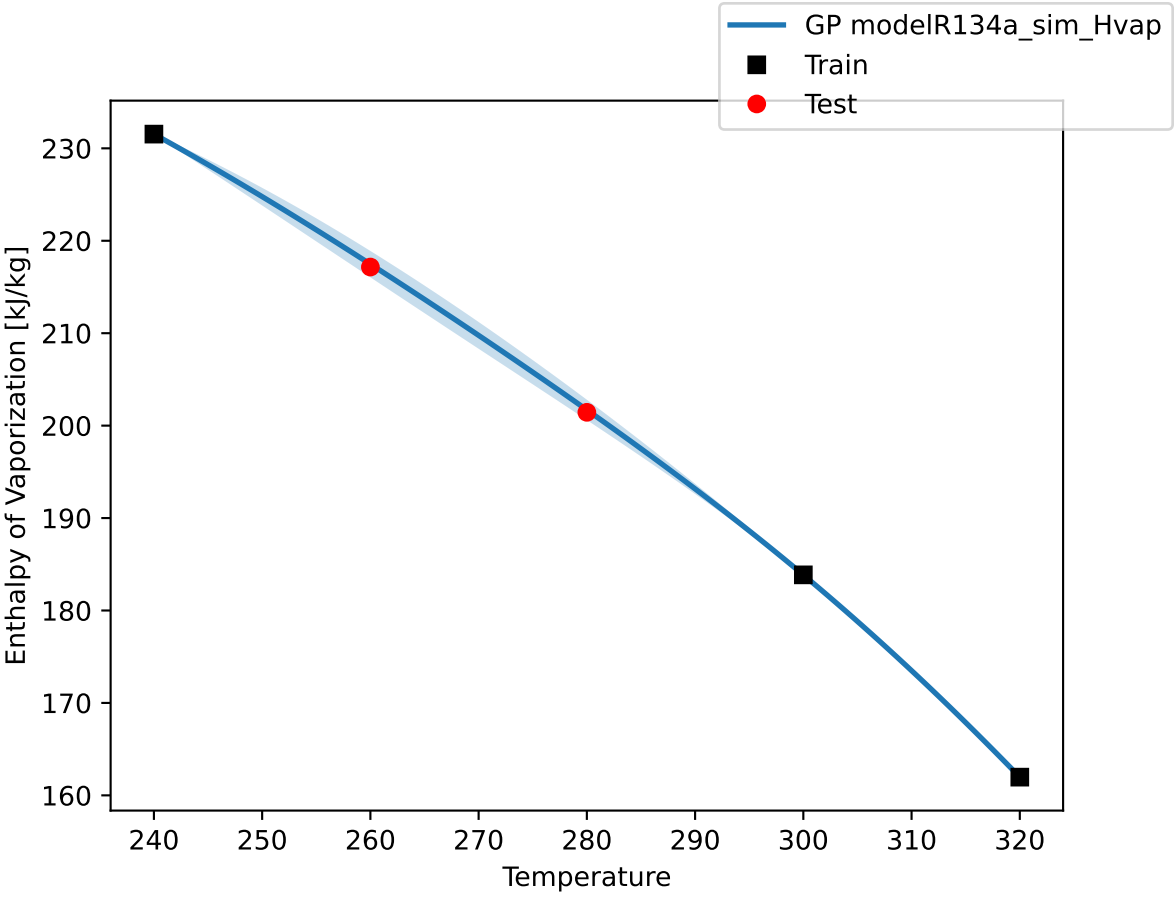
Temperature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Train
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Enthalpy of Vaporization [kJ/kg]
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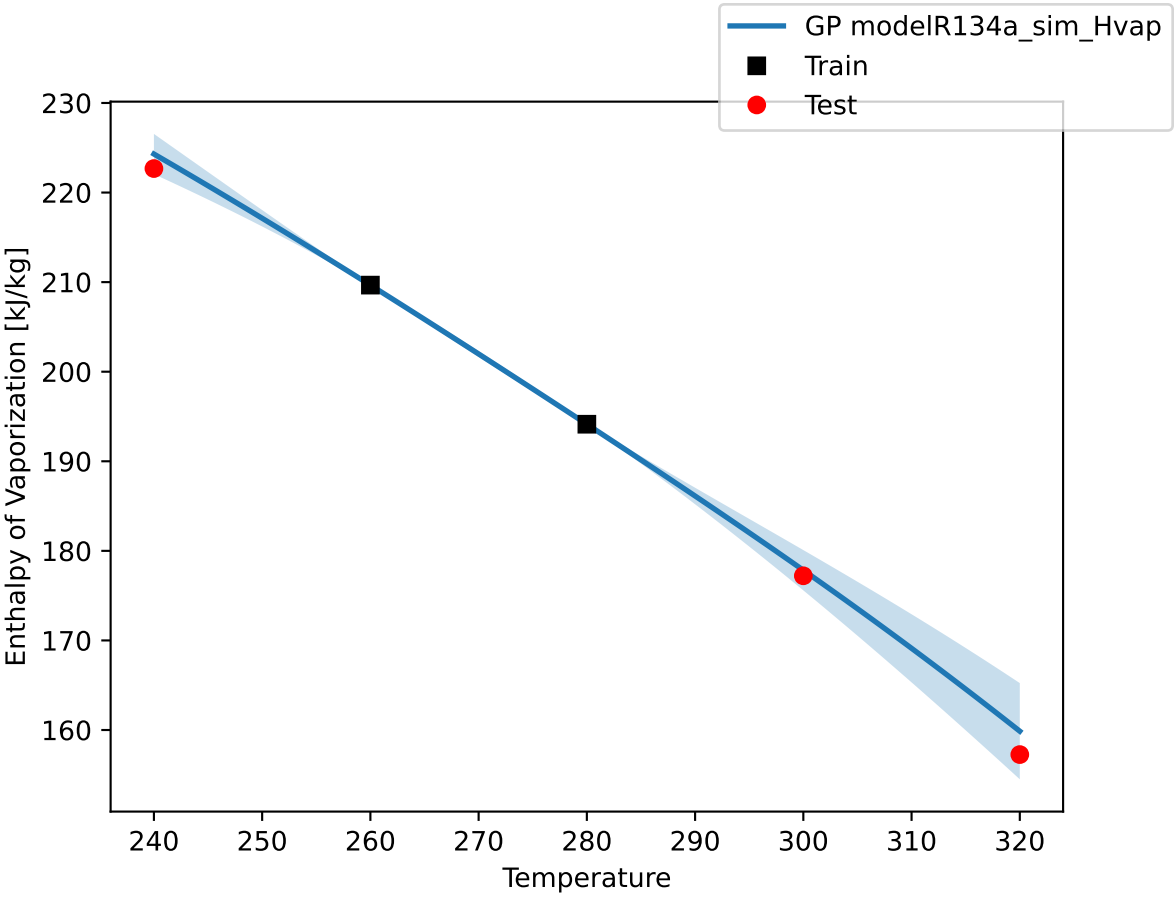
Temperature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Enthalpy of Vaporization [kJ/kg]
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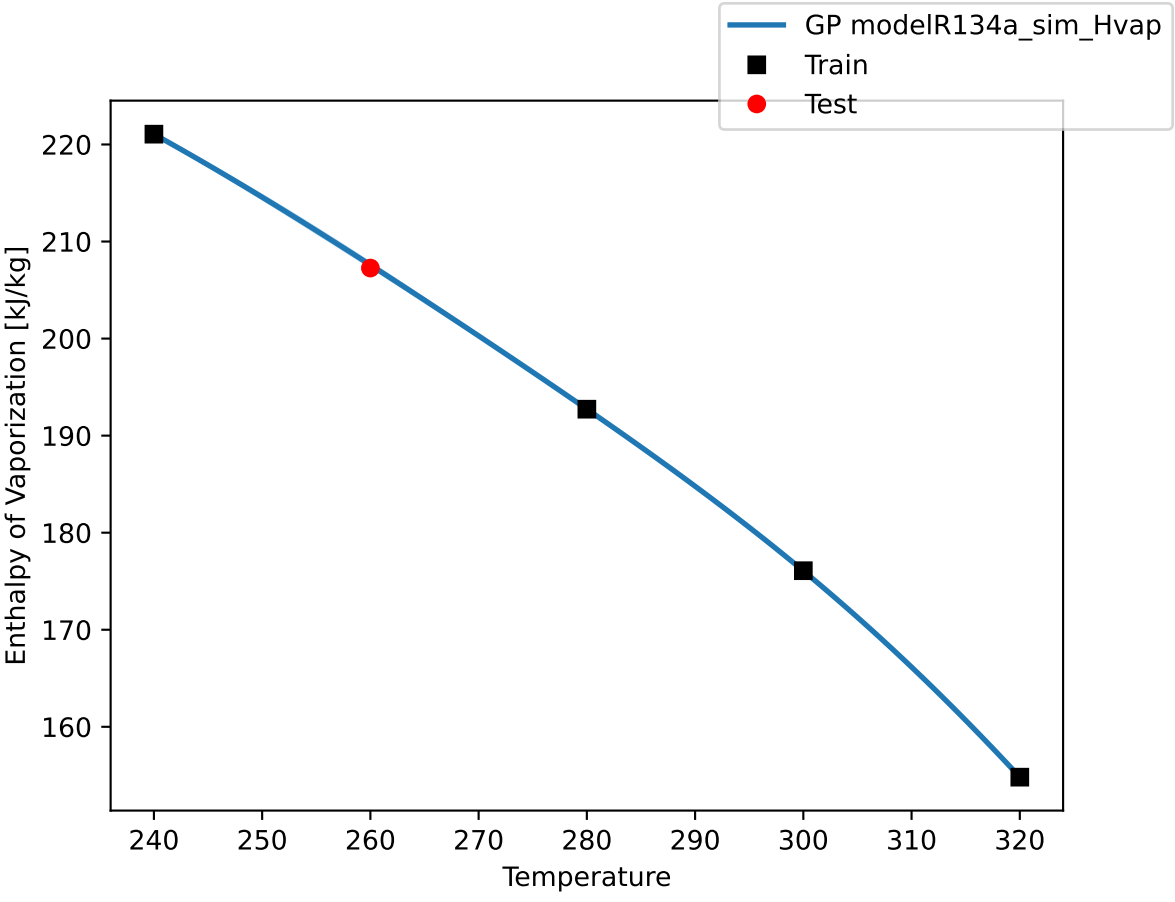
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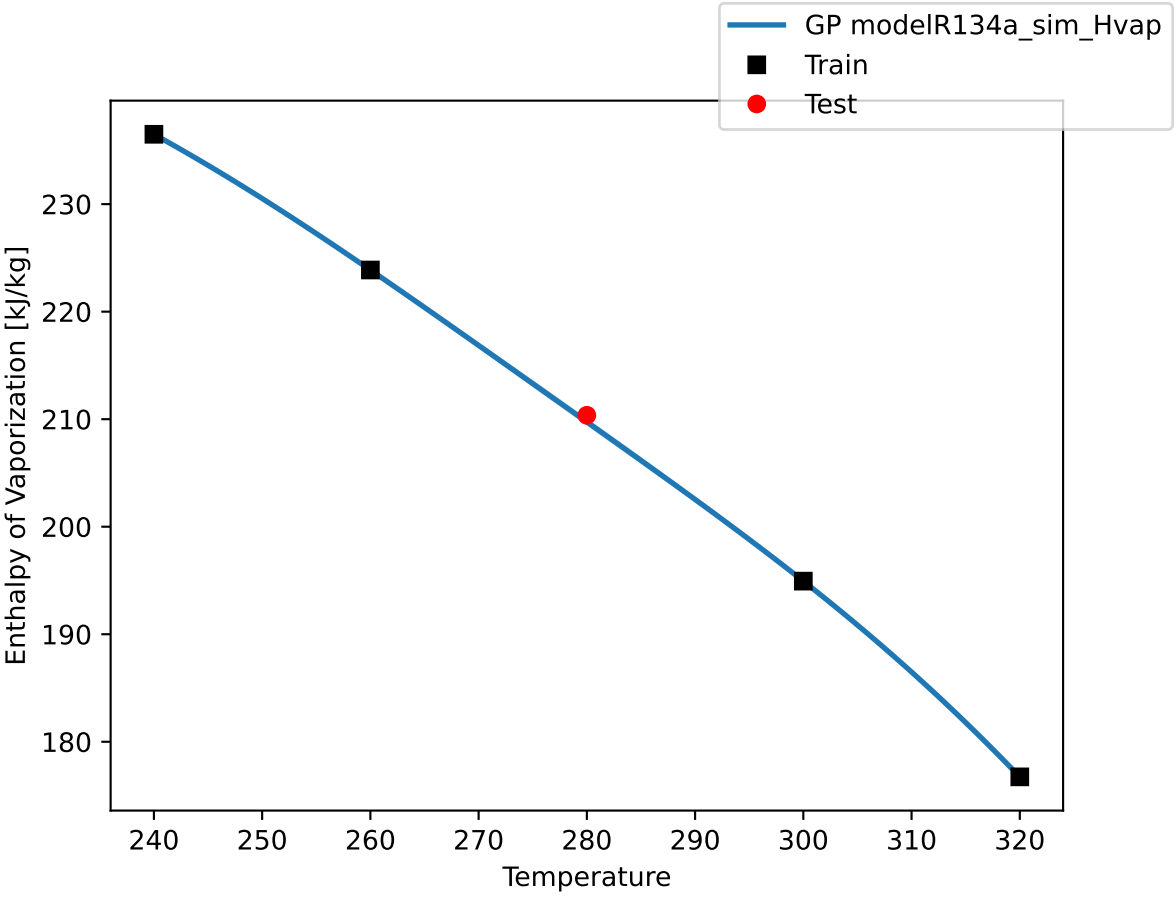
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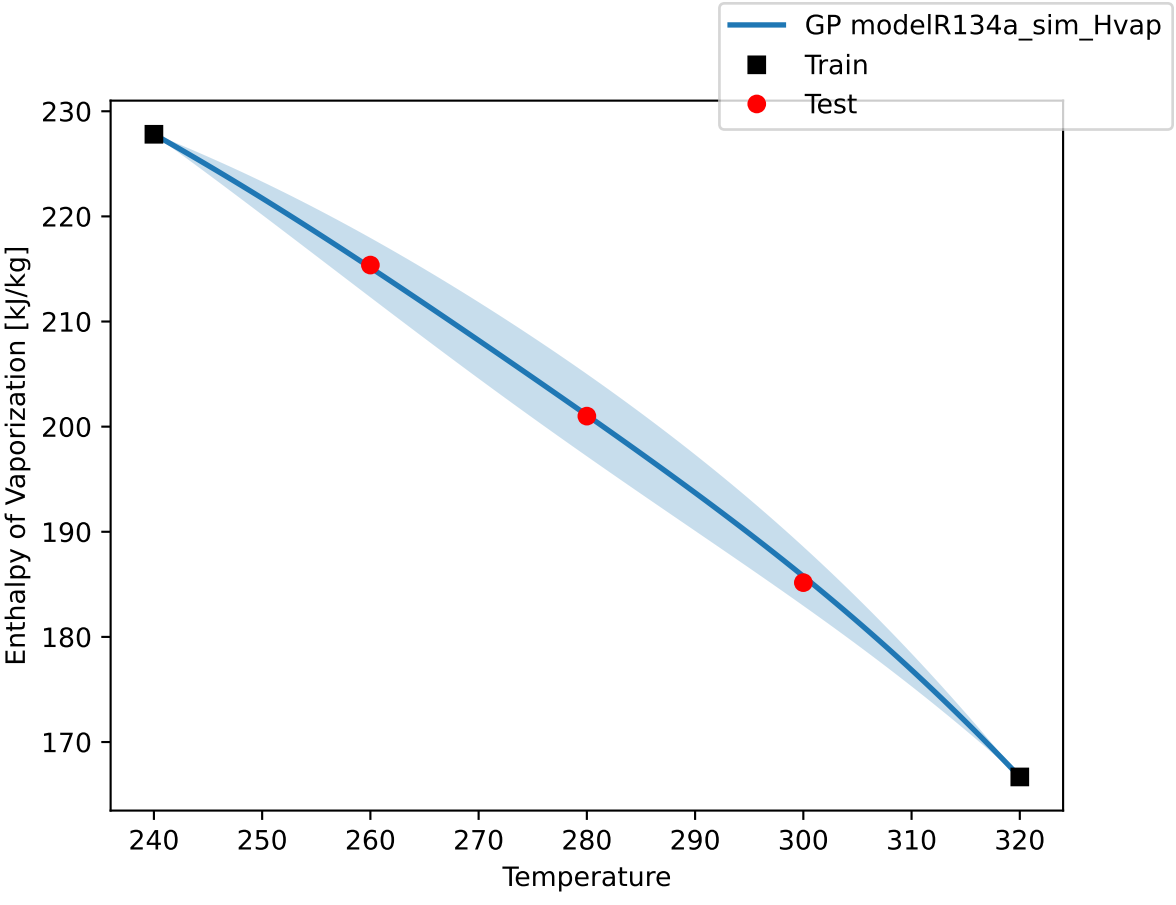
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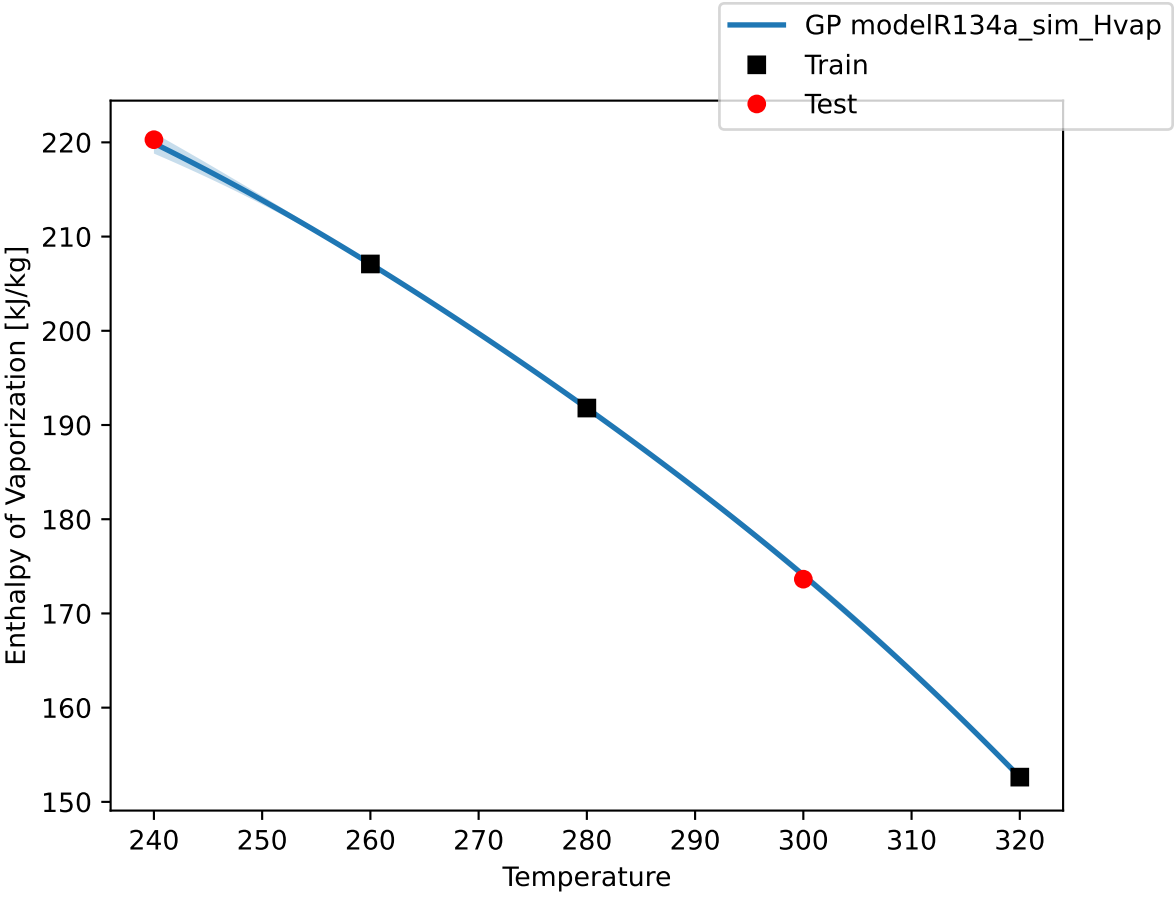
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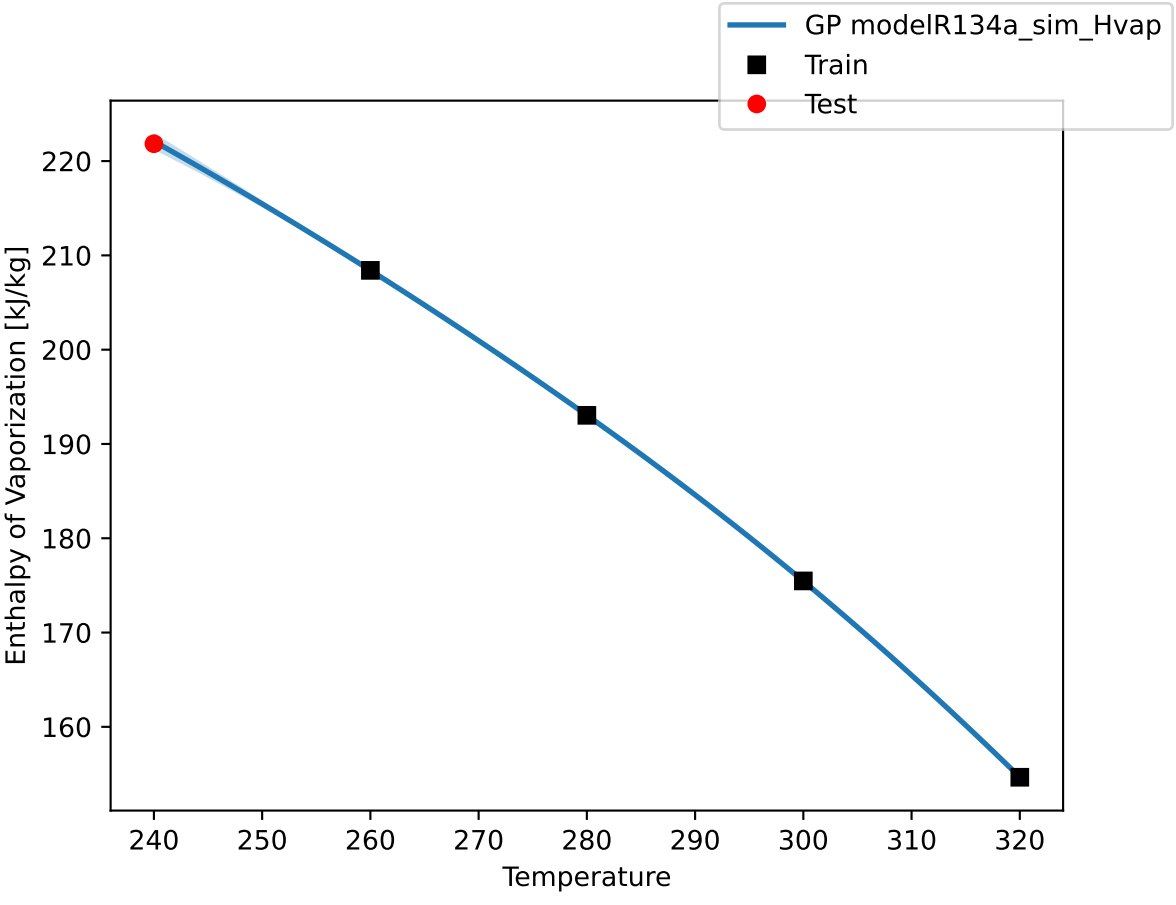
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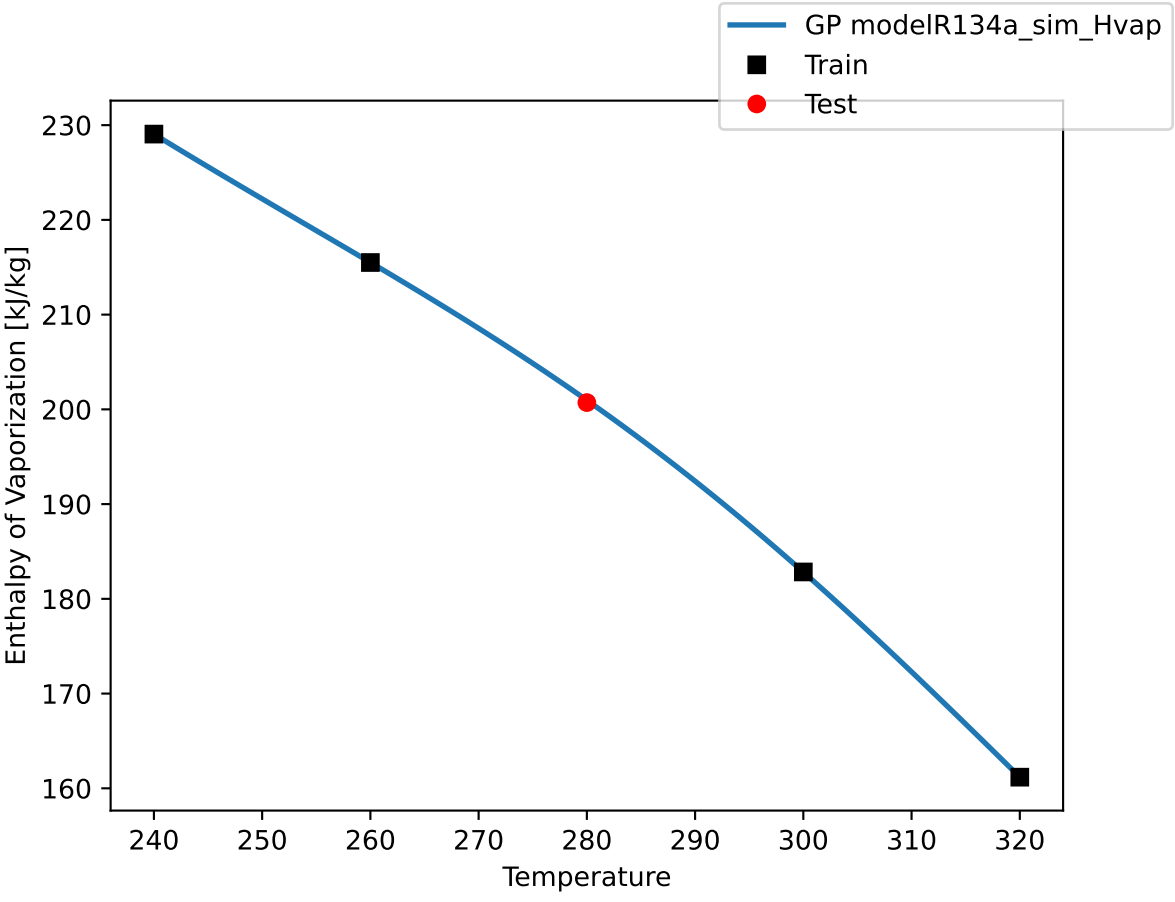
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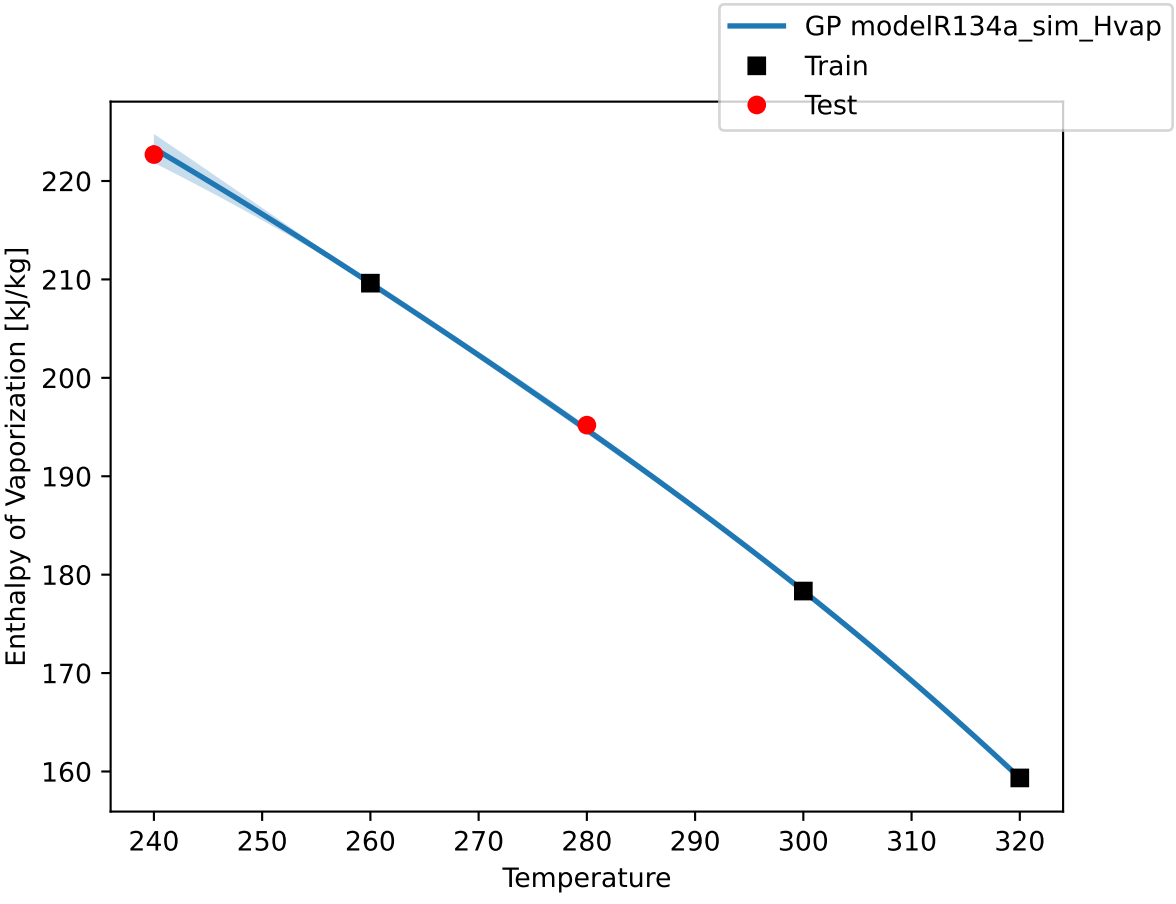
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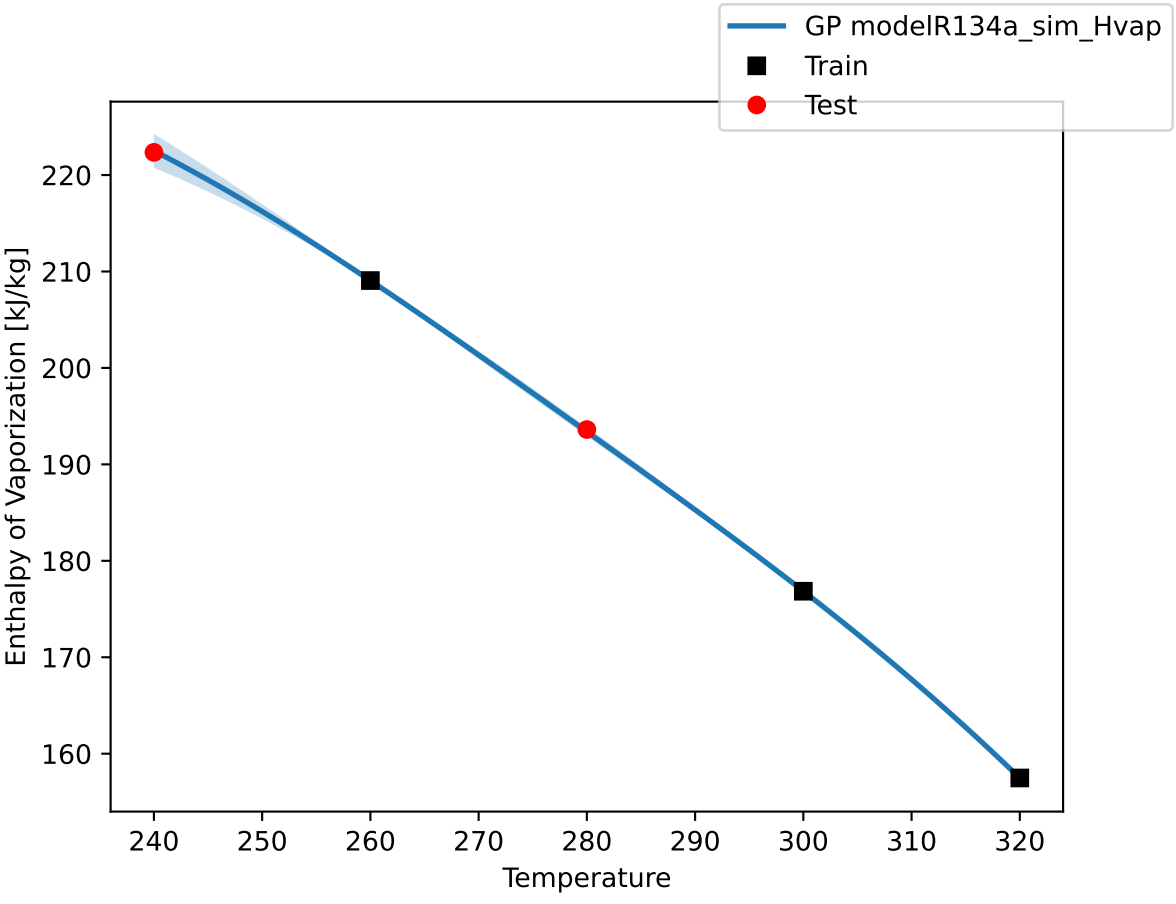
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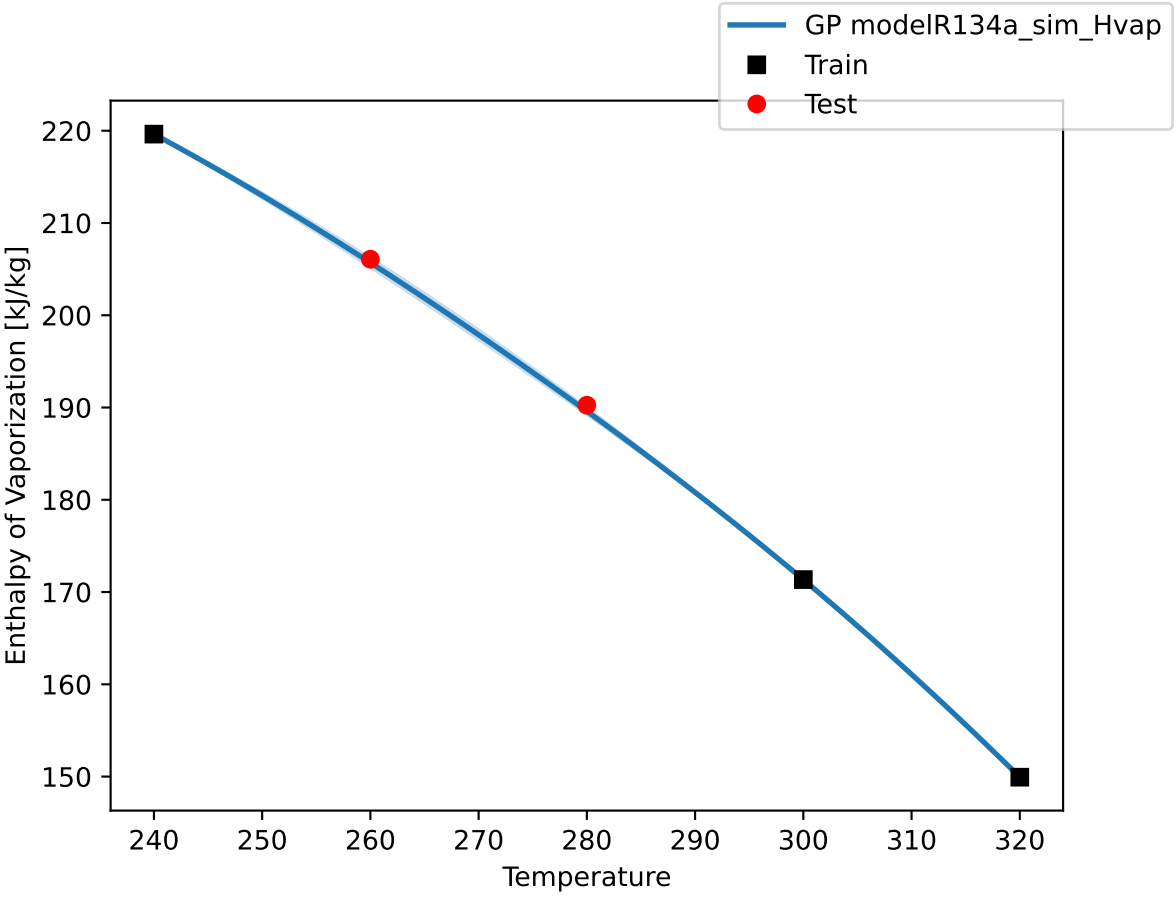
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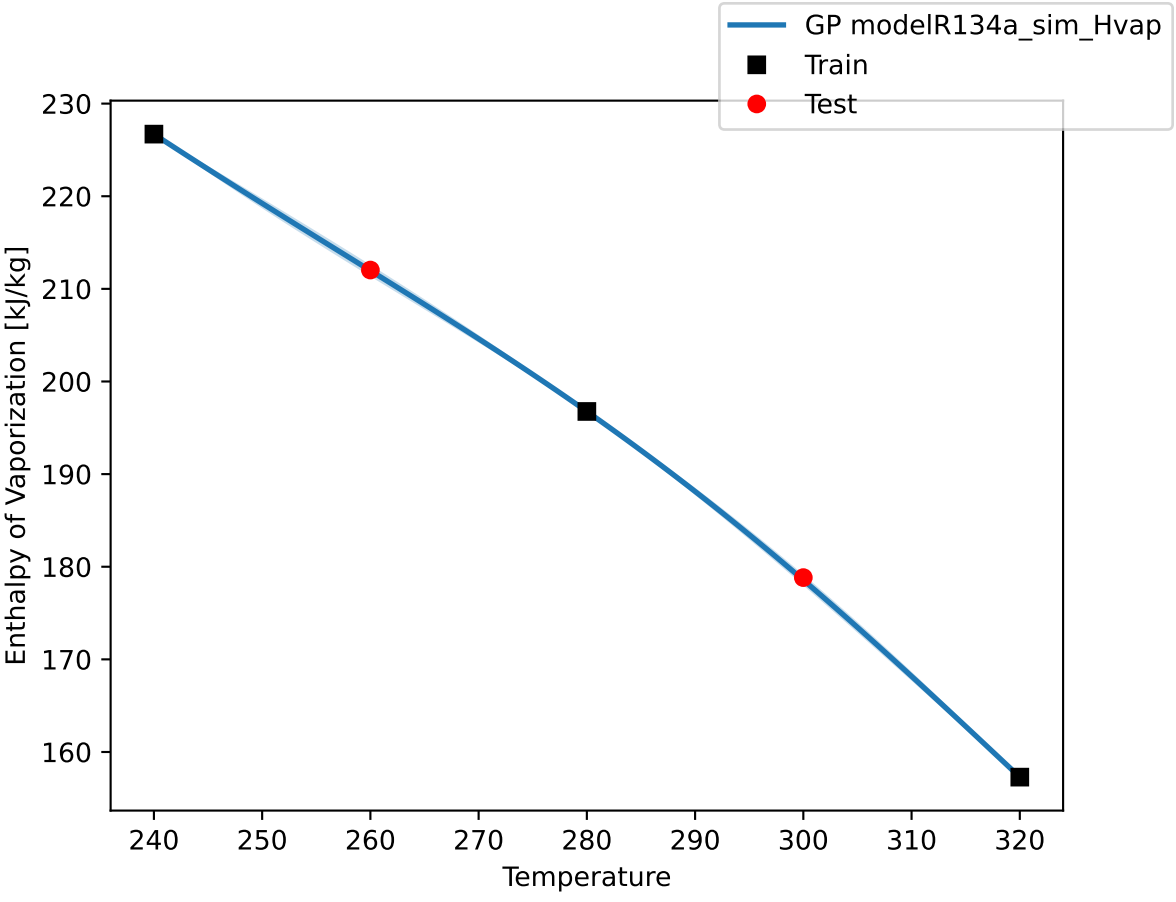
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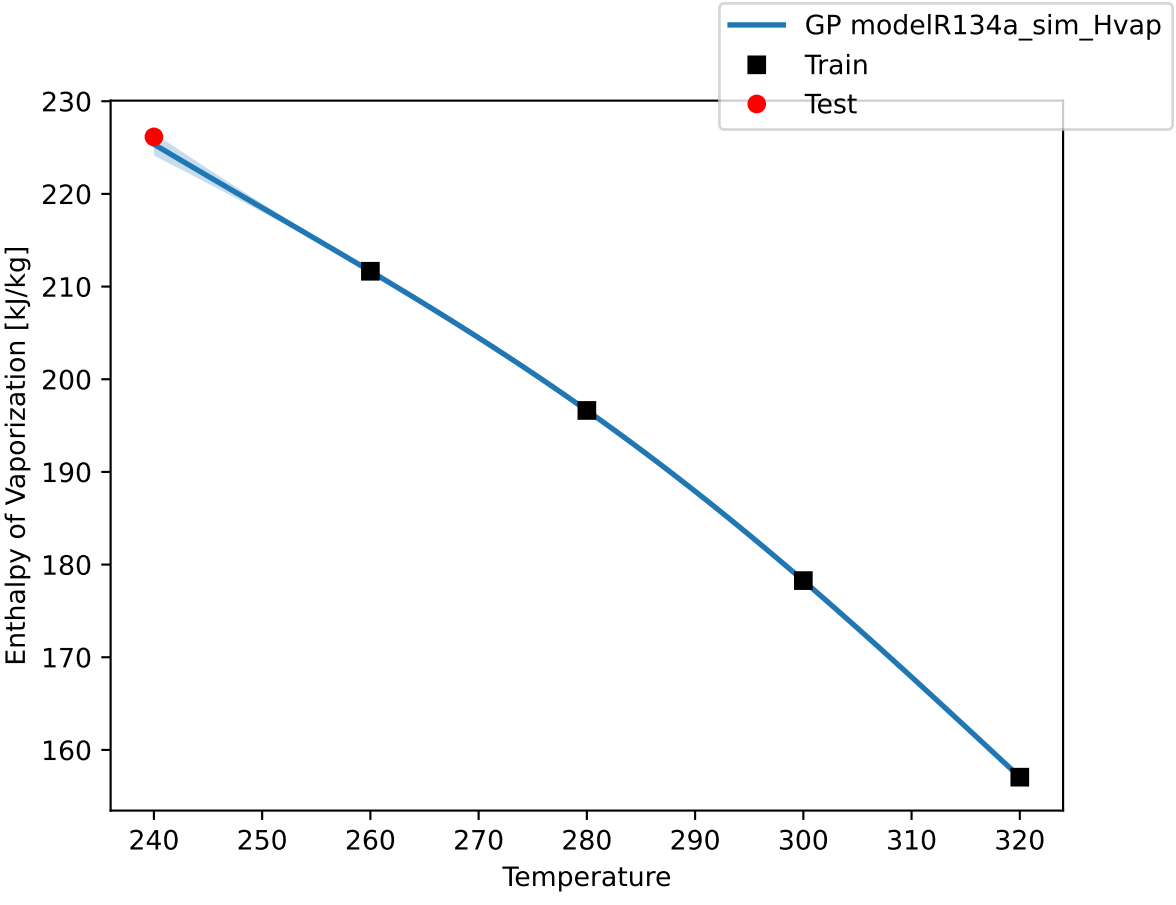
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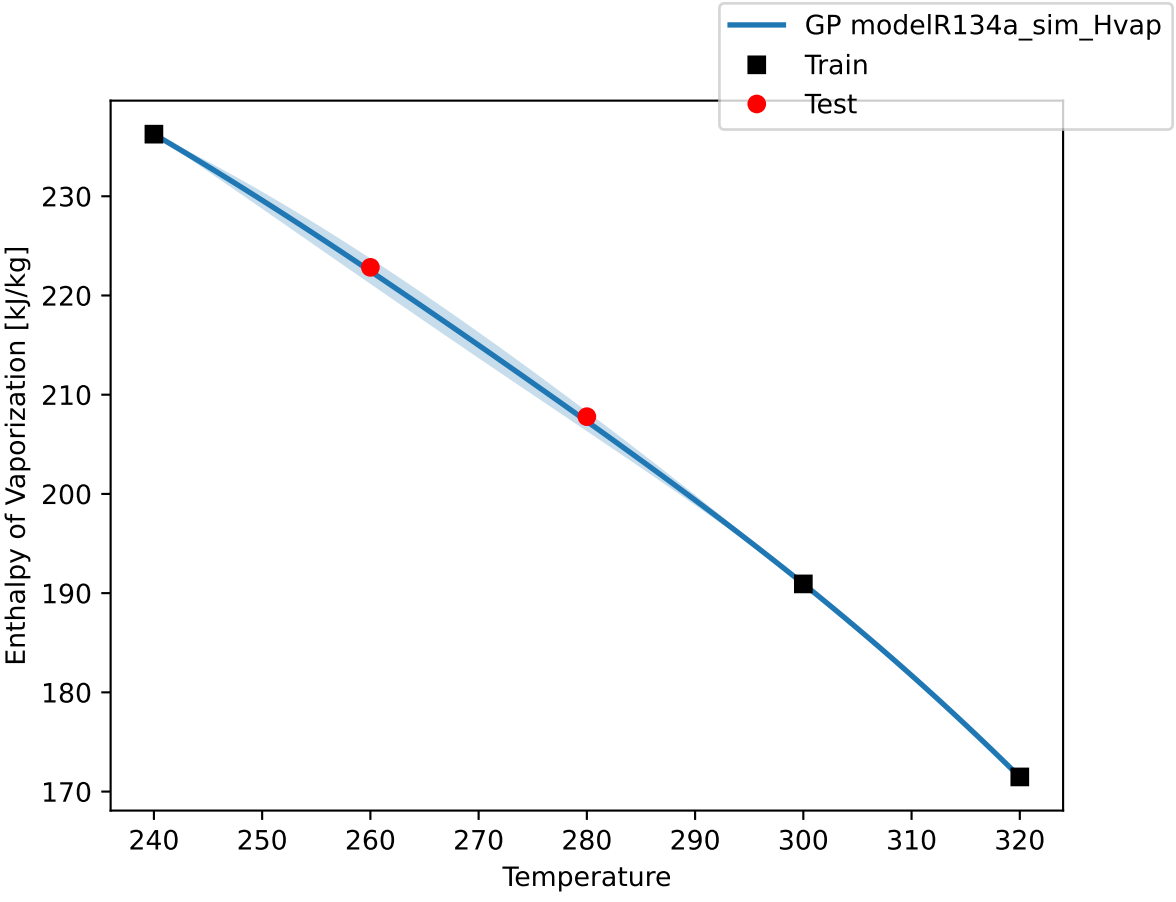
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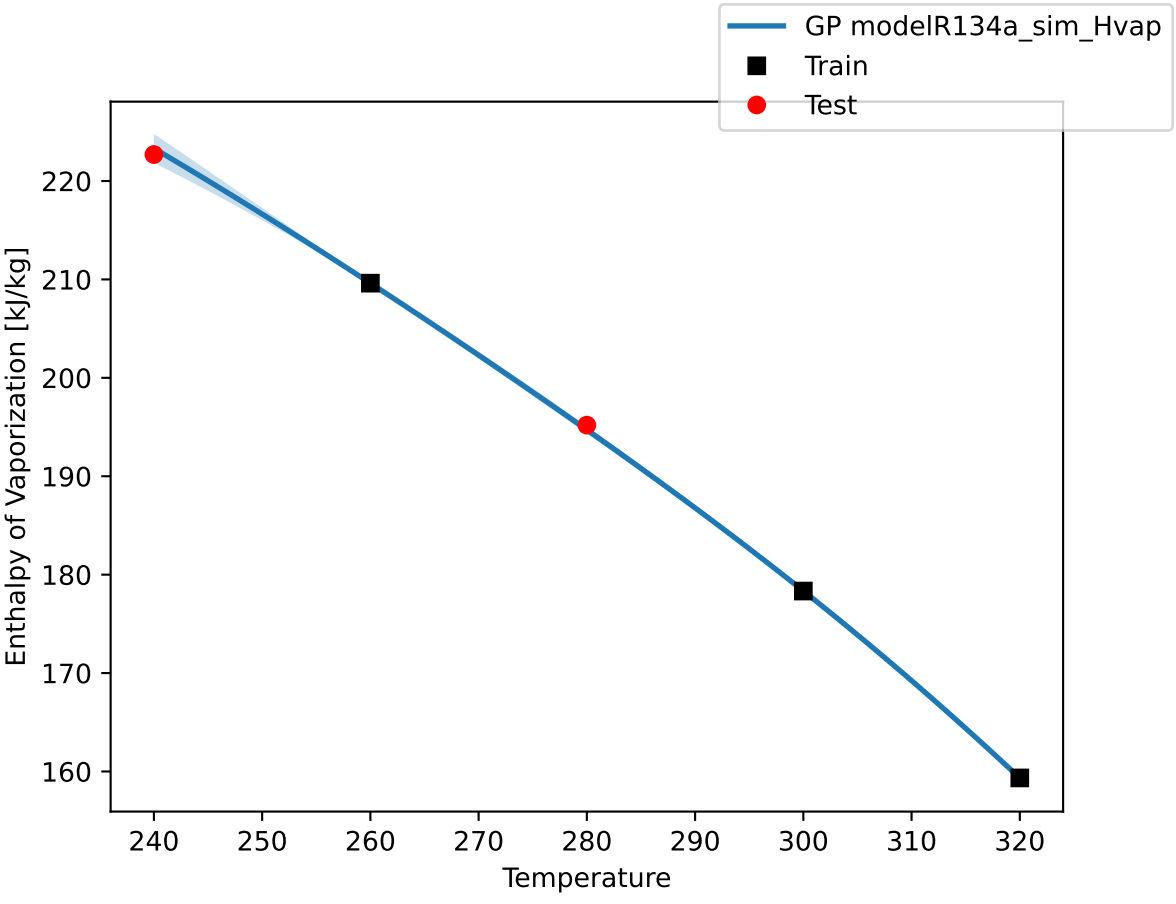
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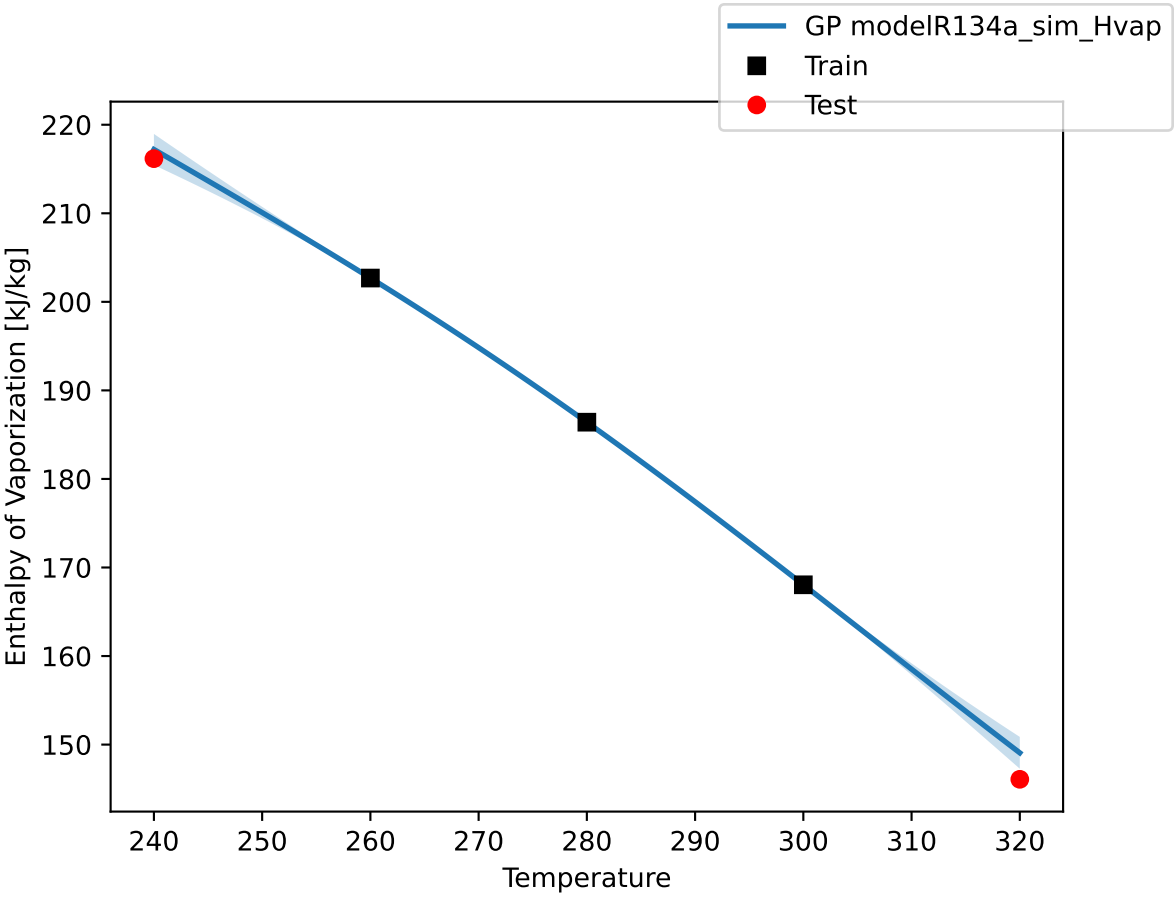
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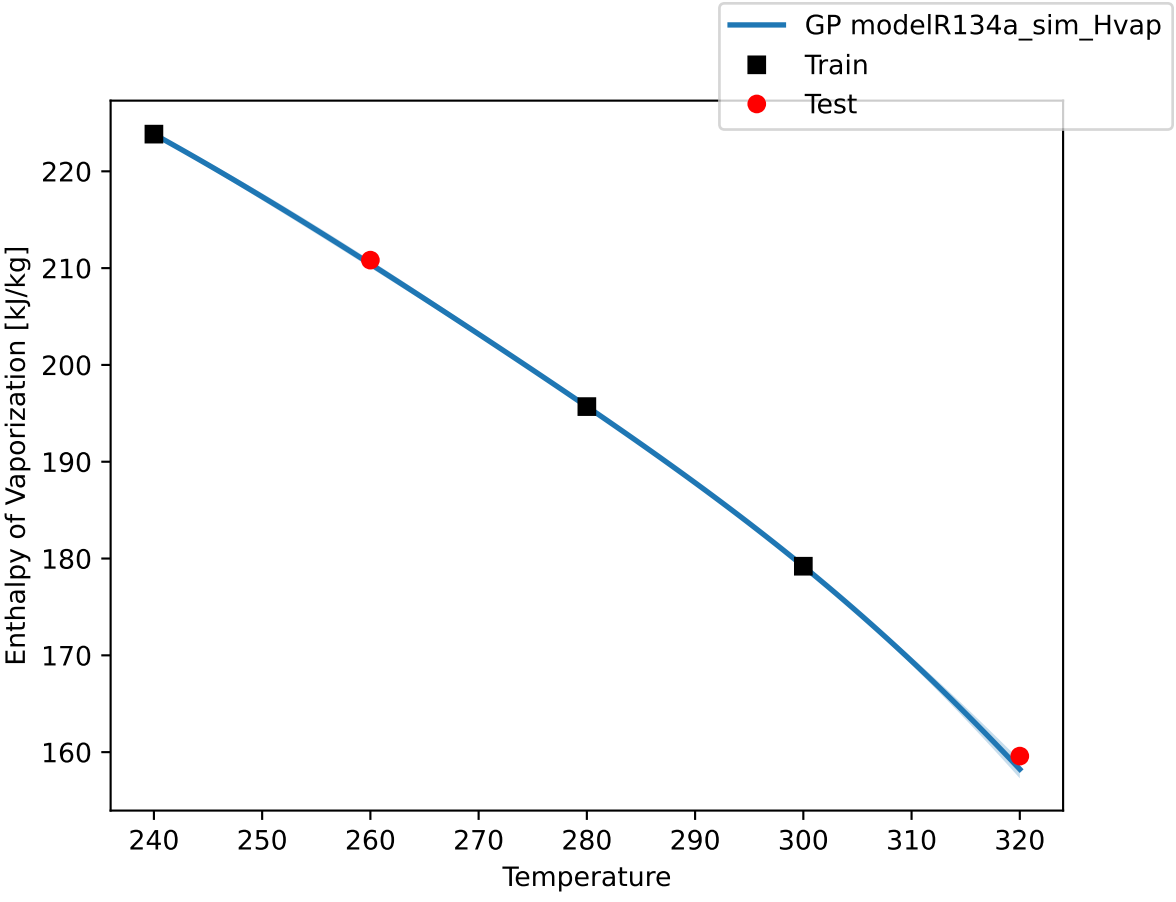
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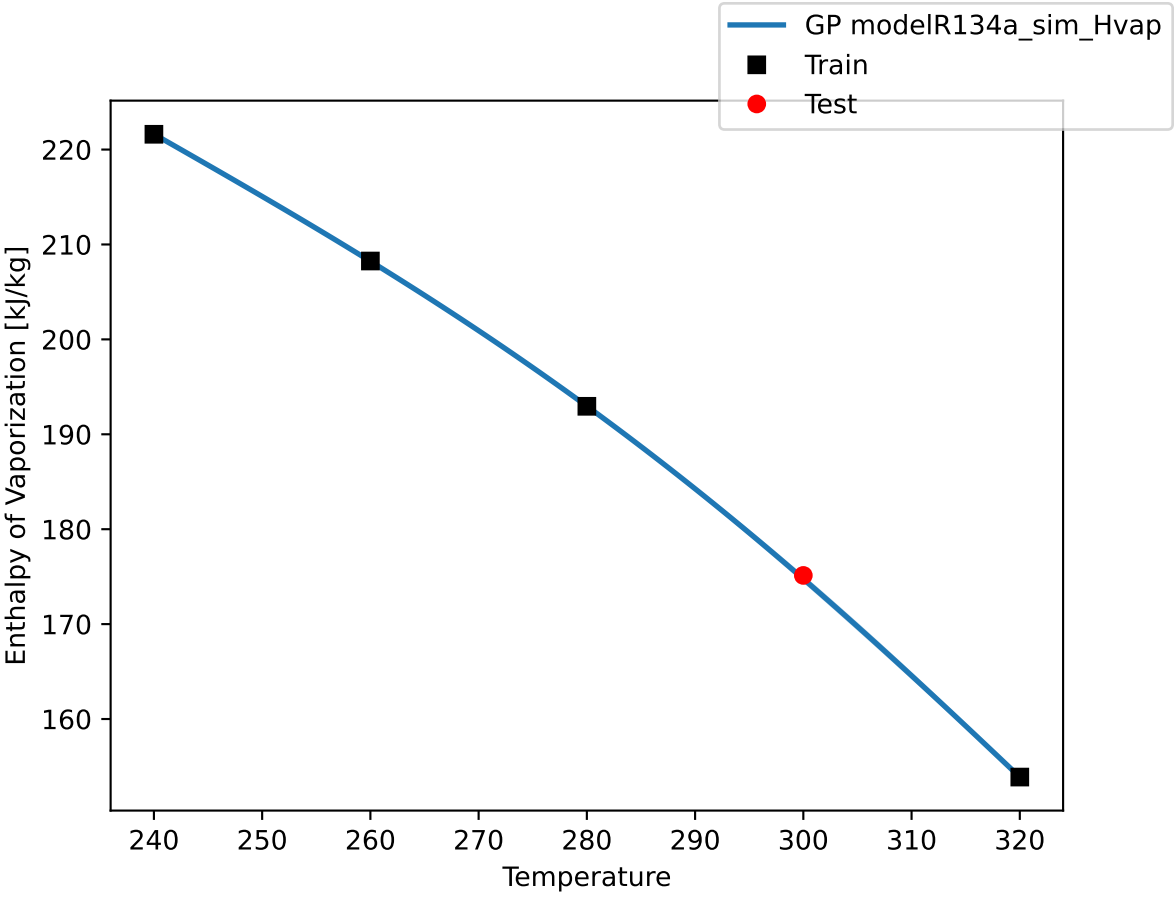
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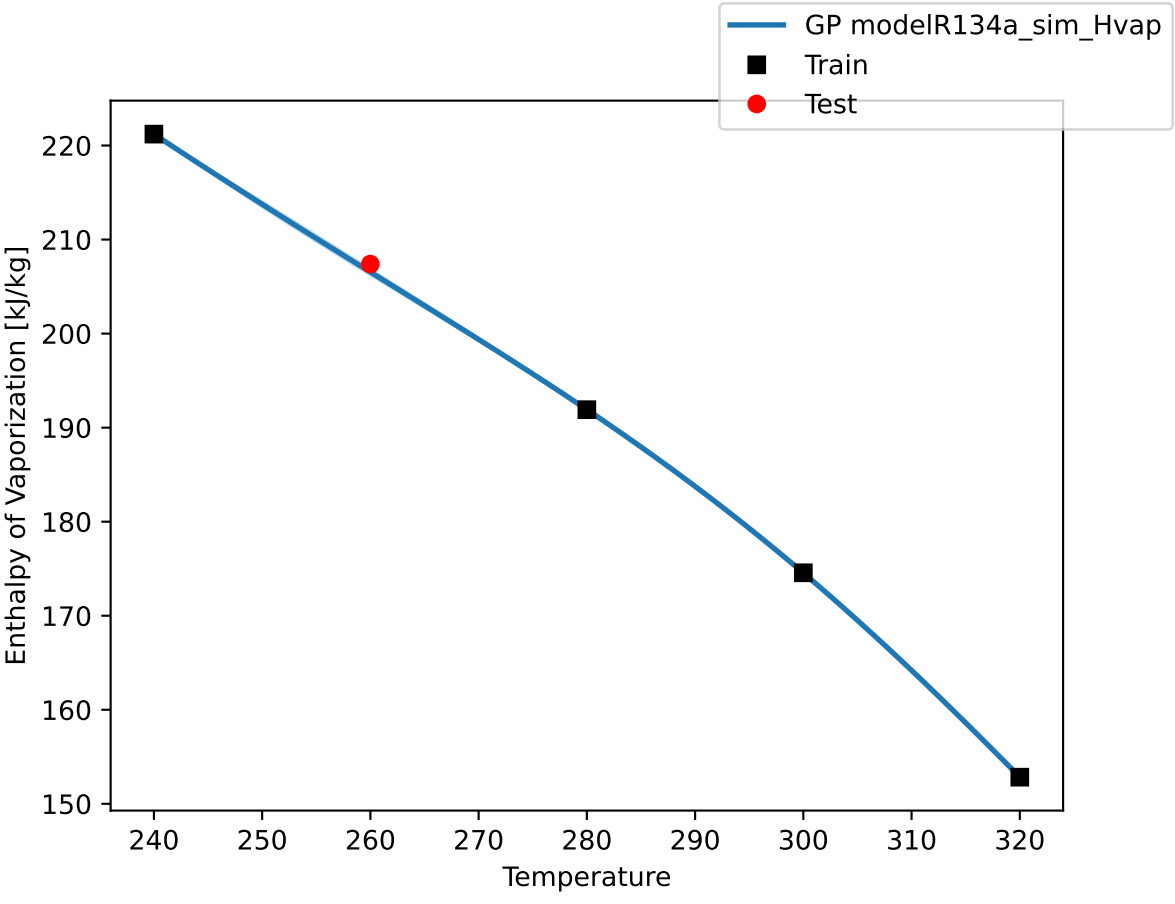
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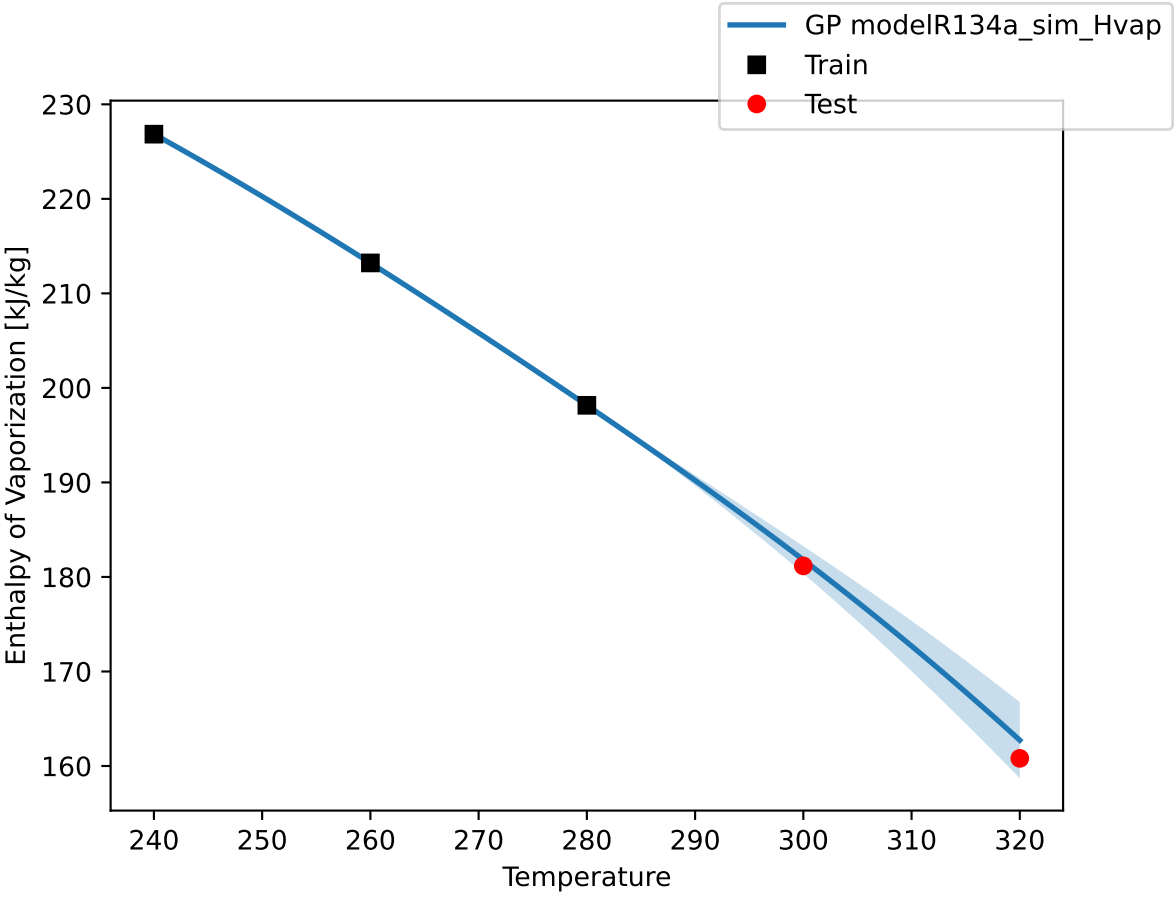
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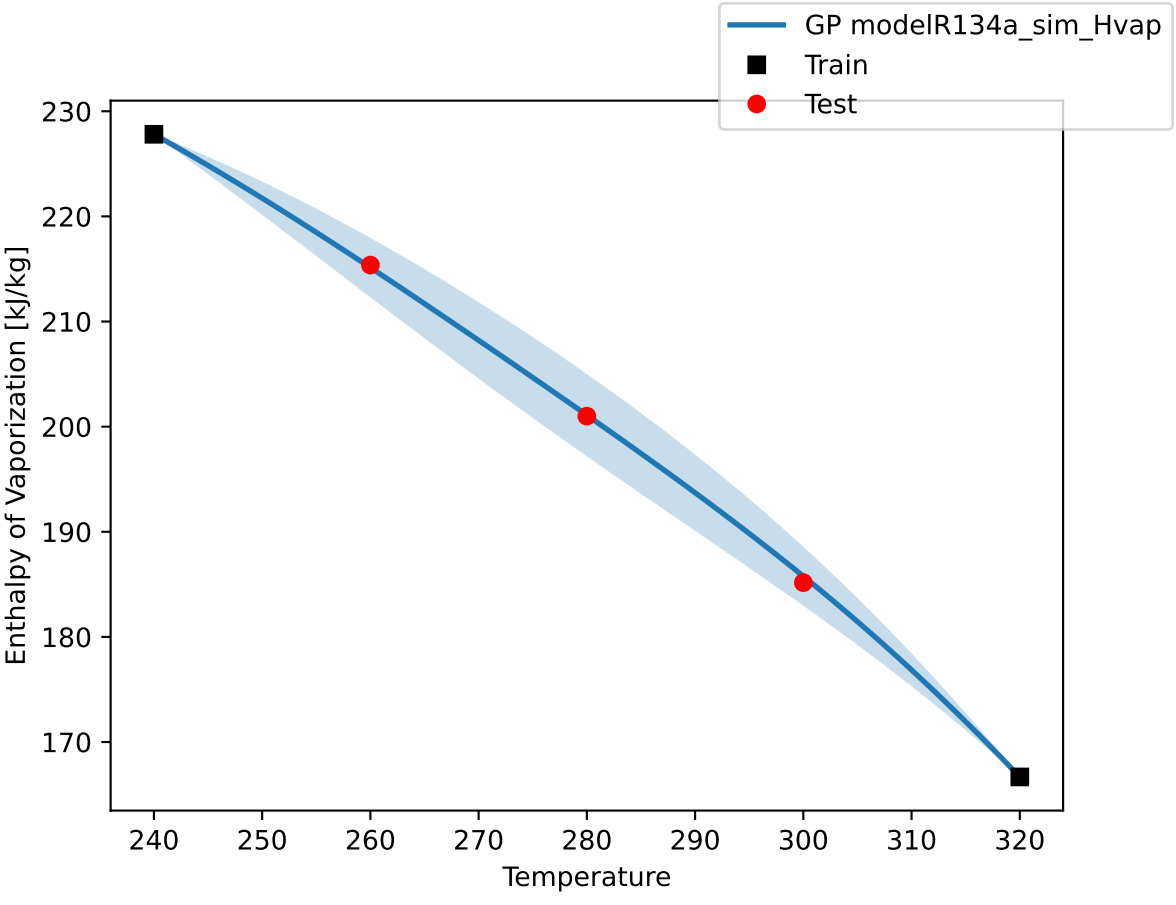
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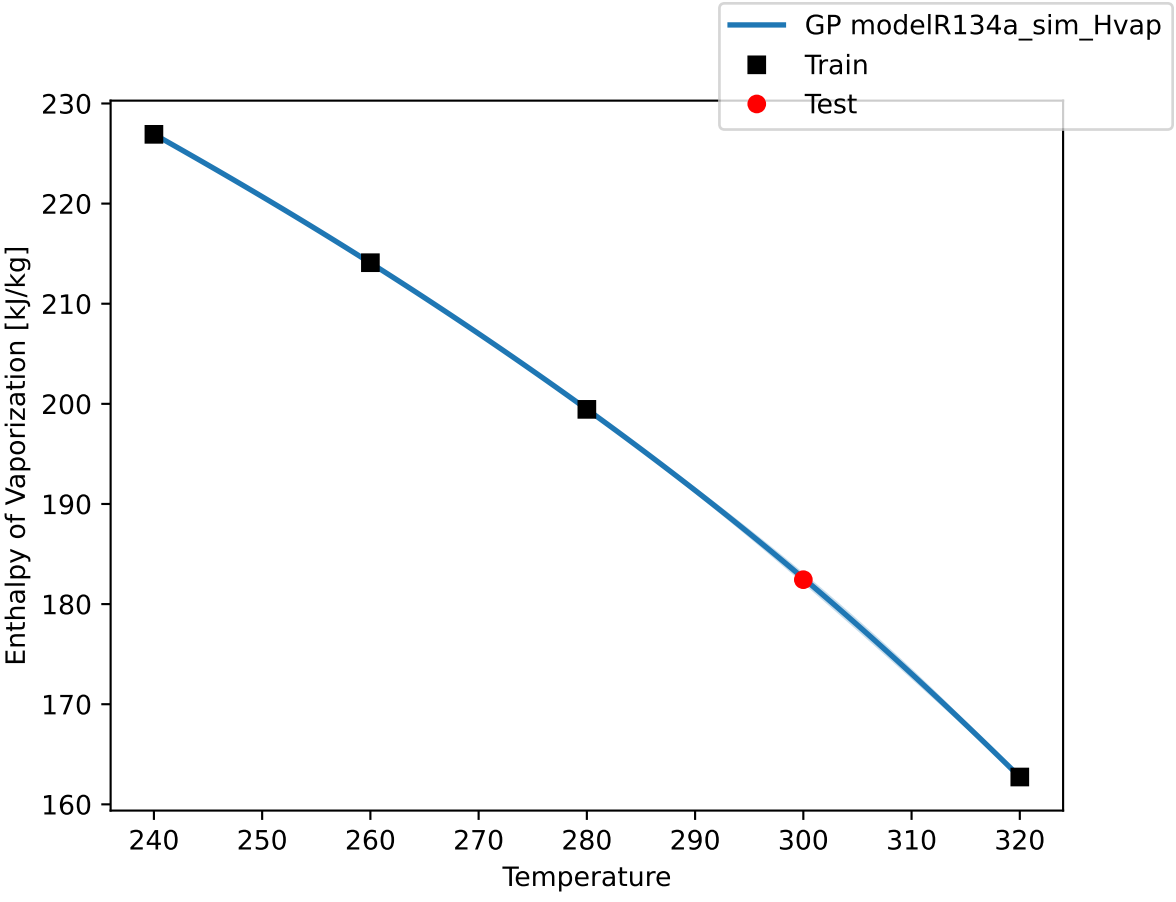
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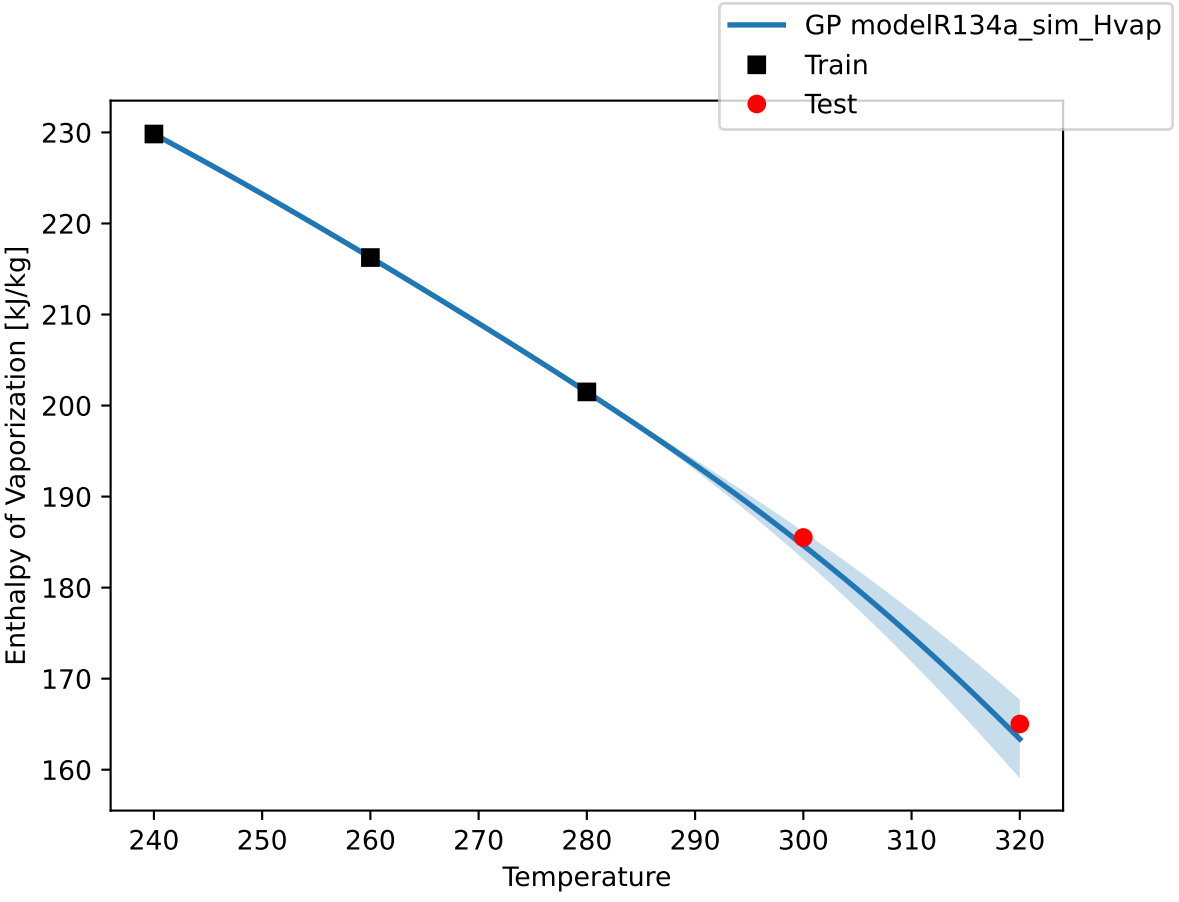
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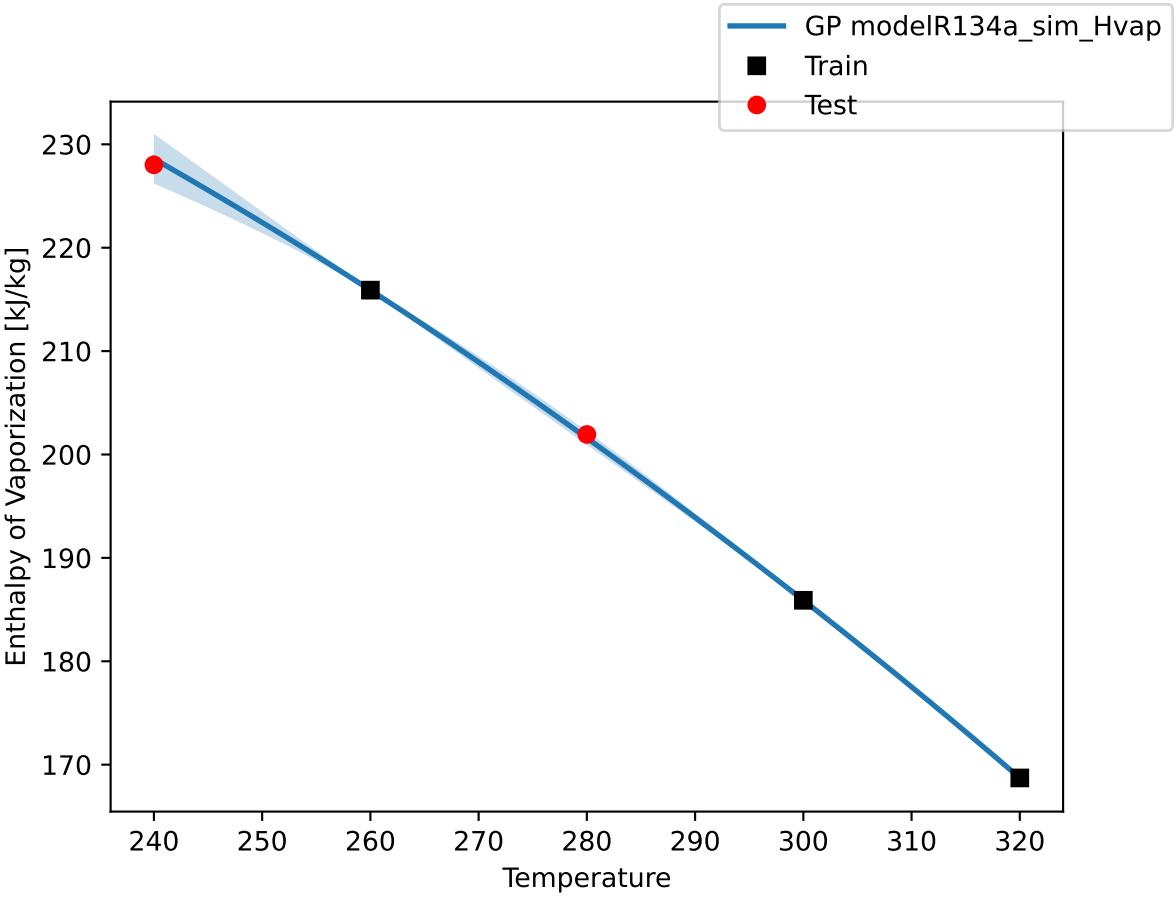
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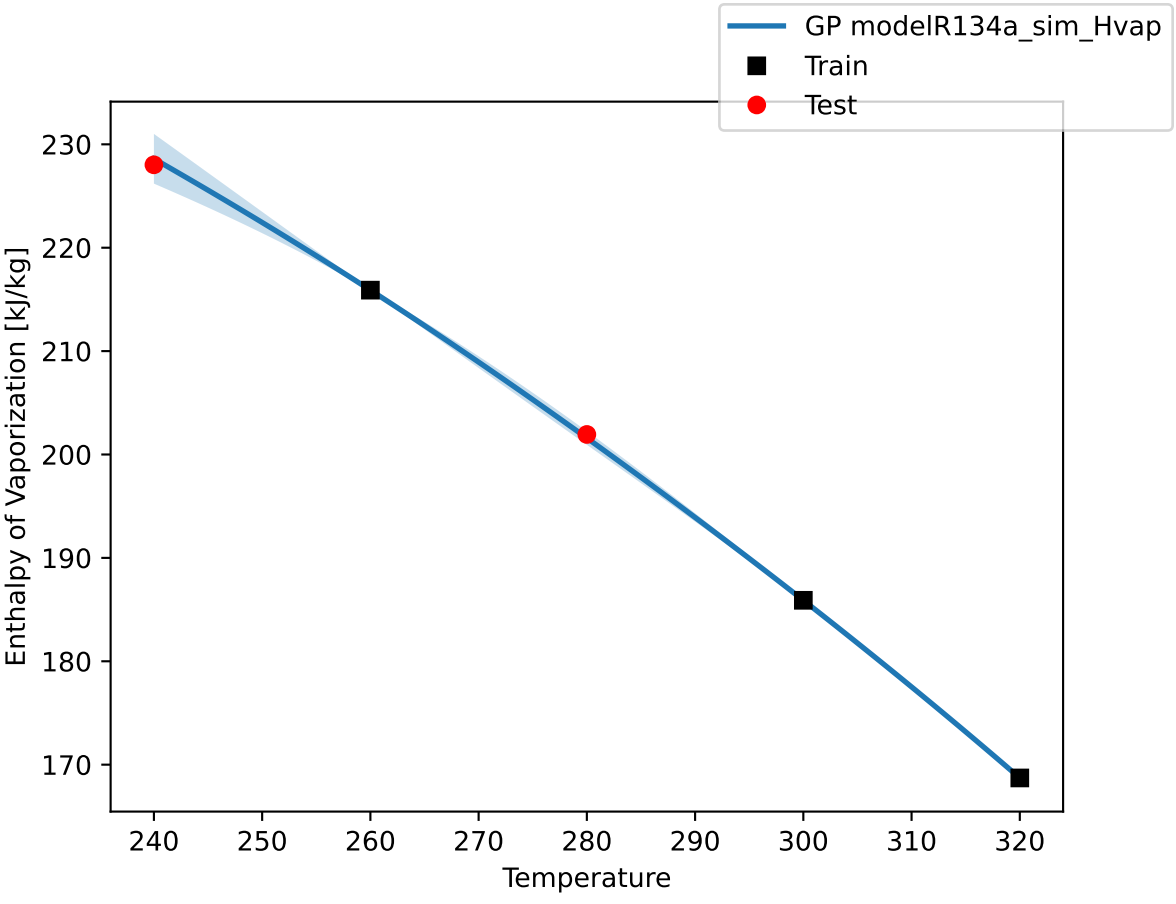
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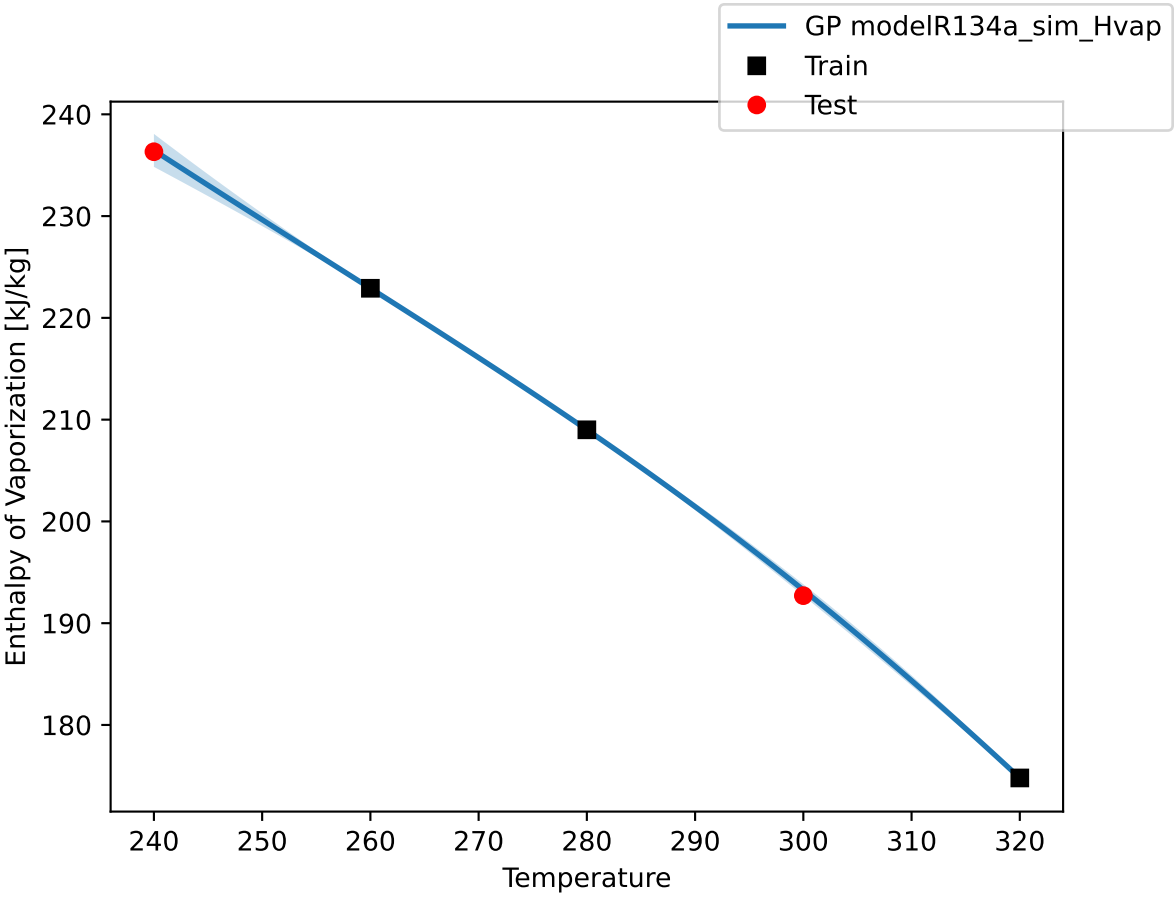
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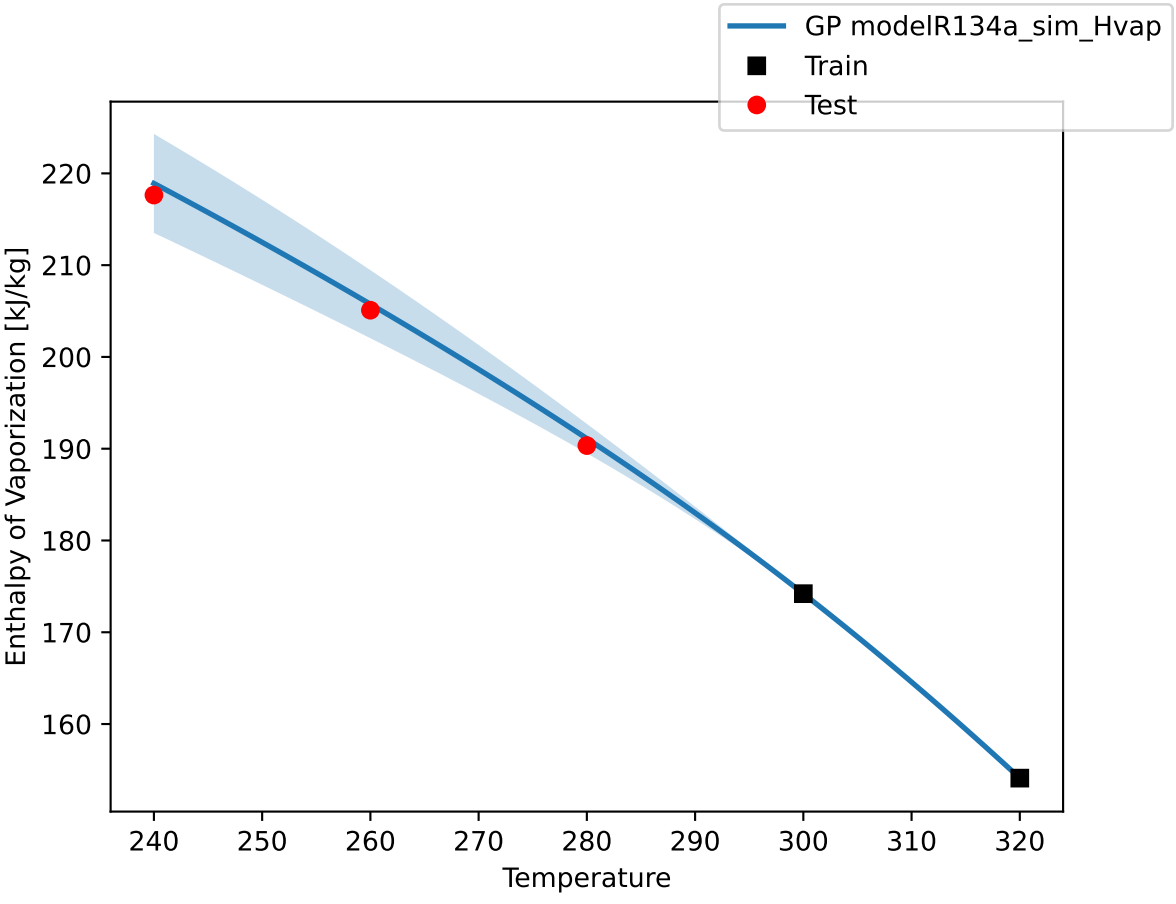
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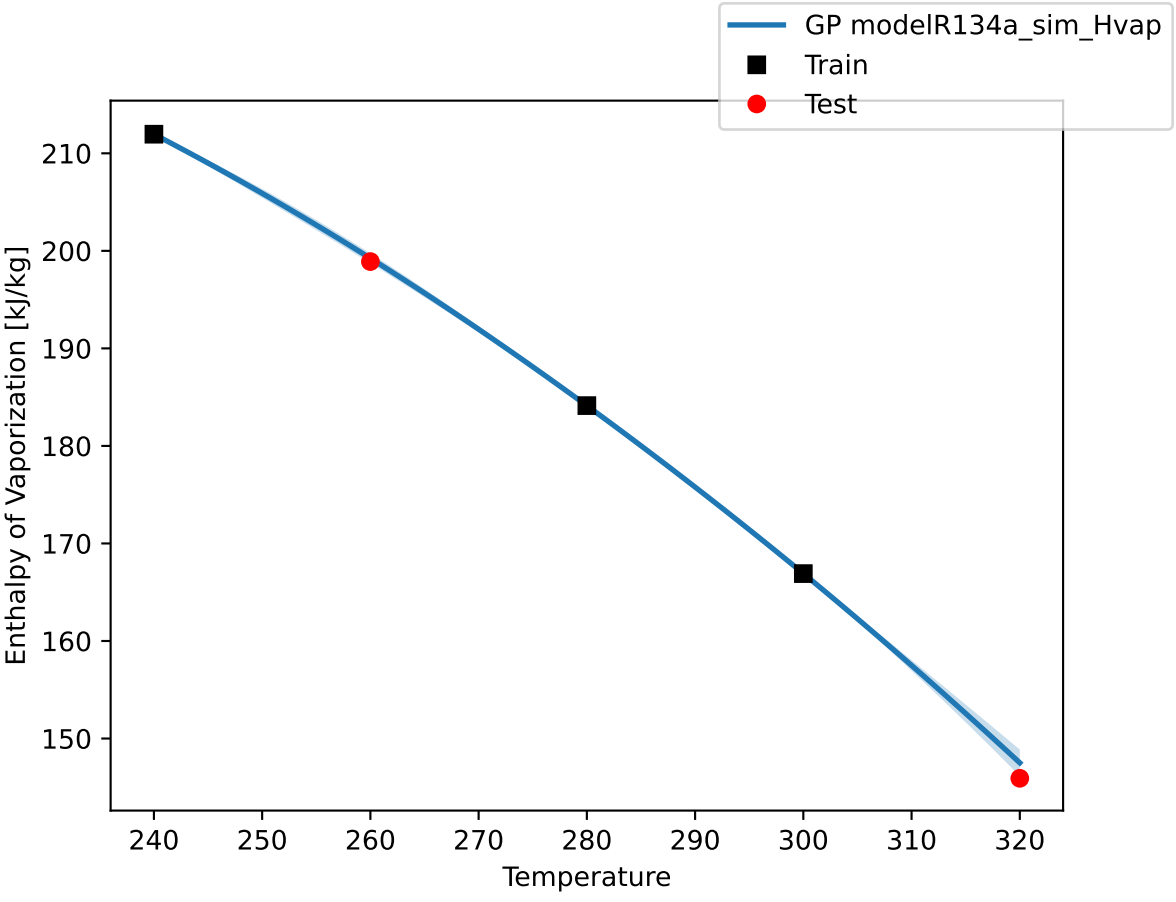
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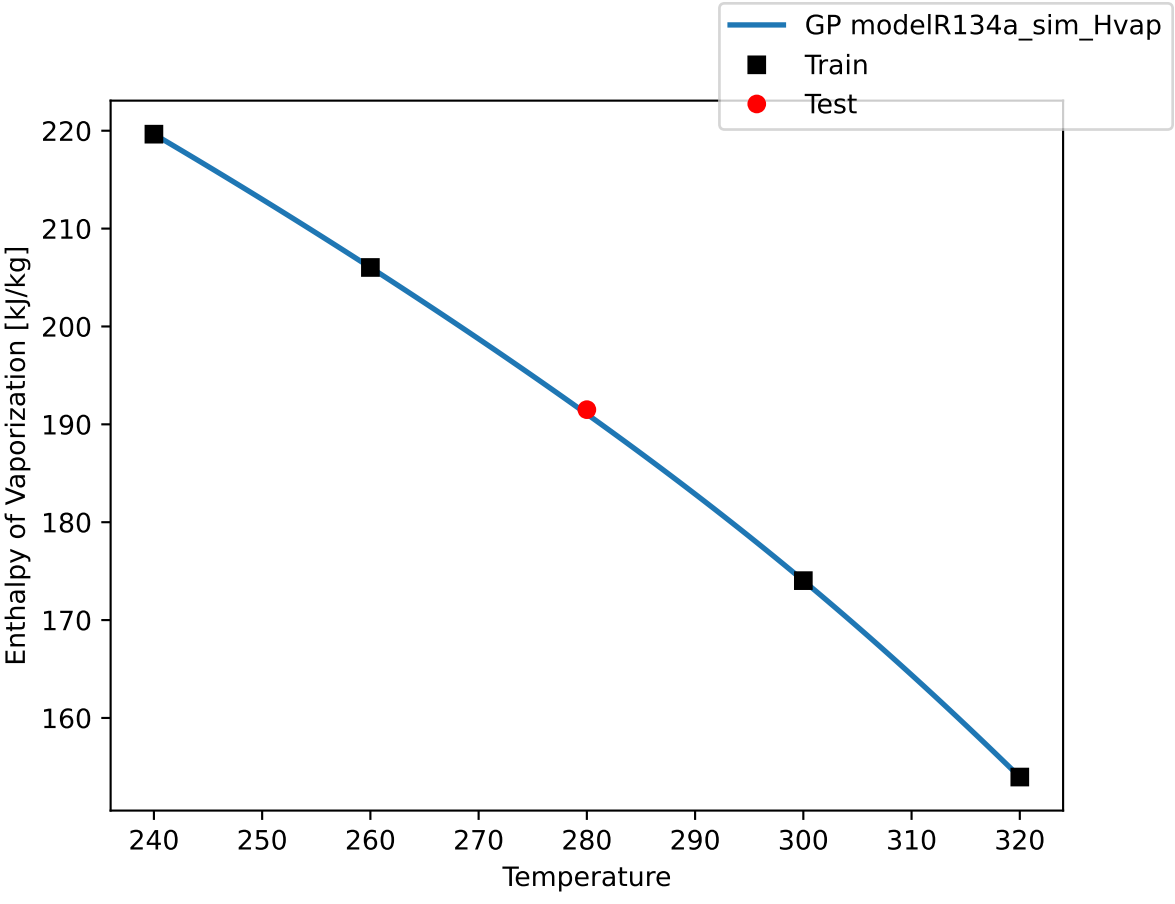
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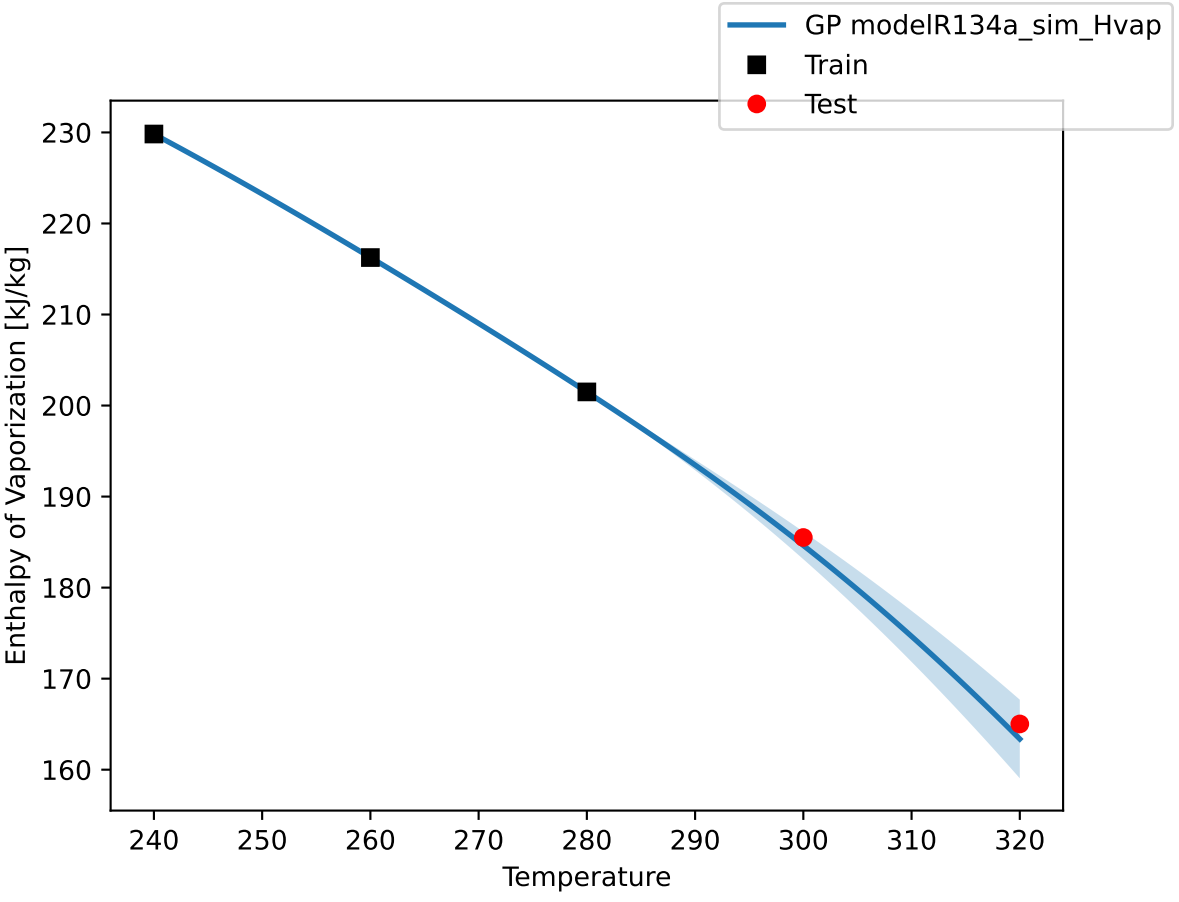
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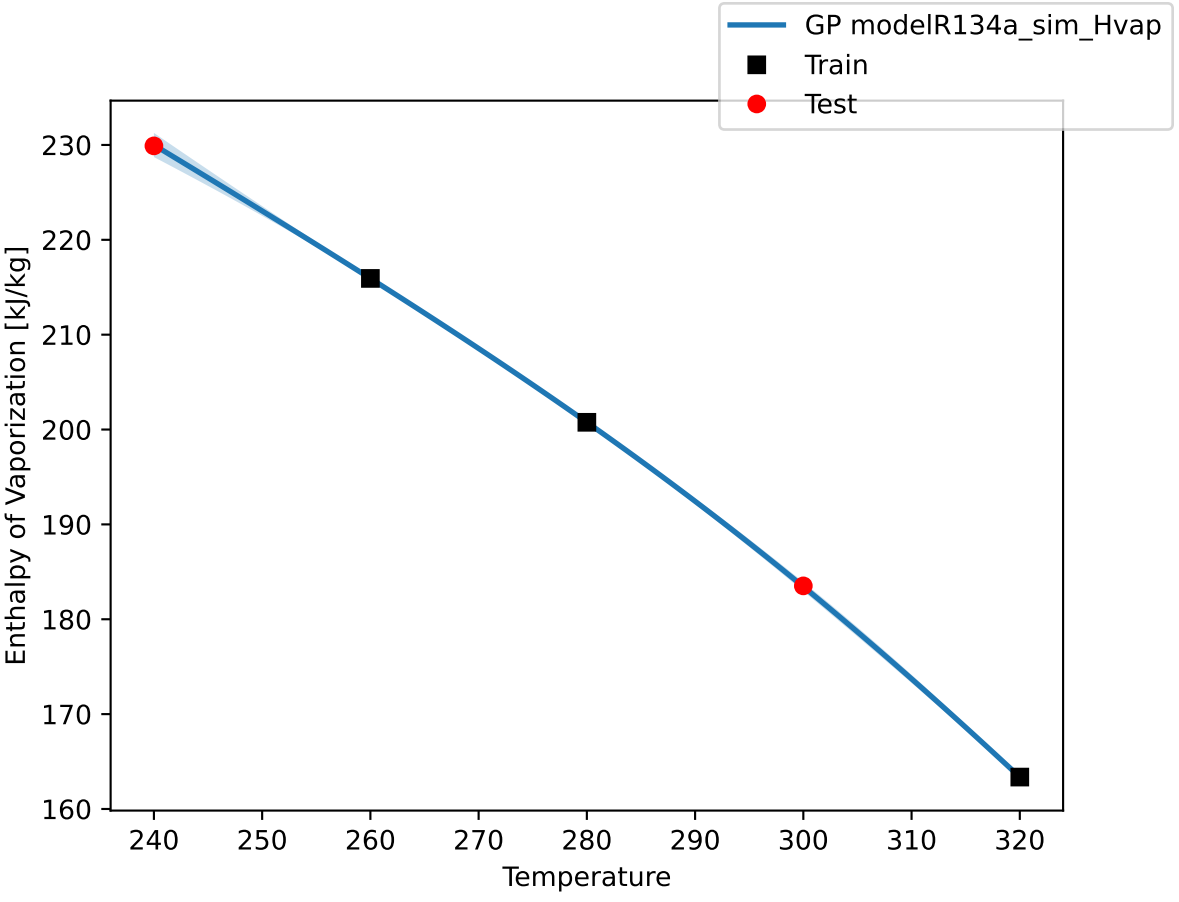
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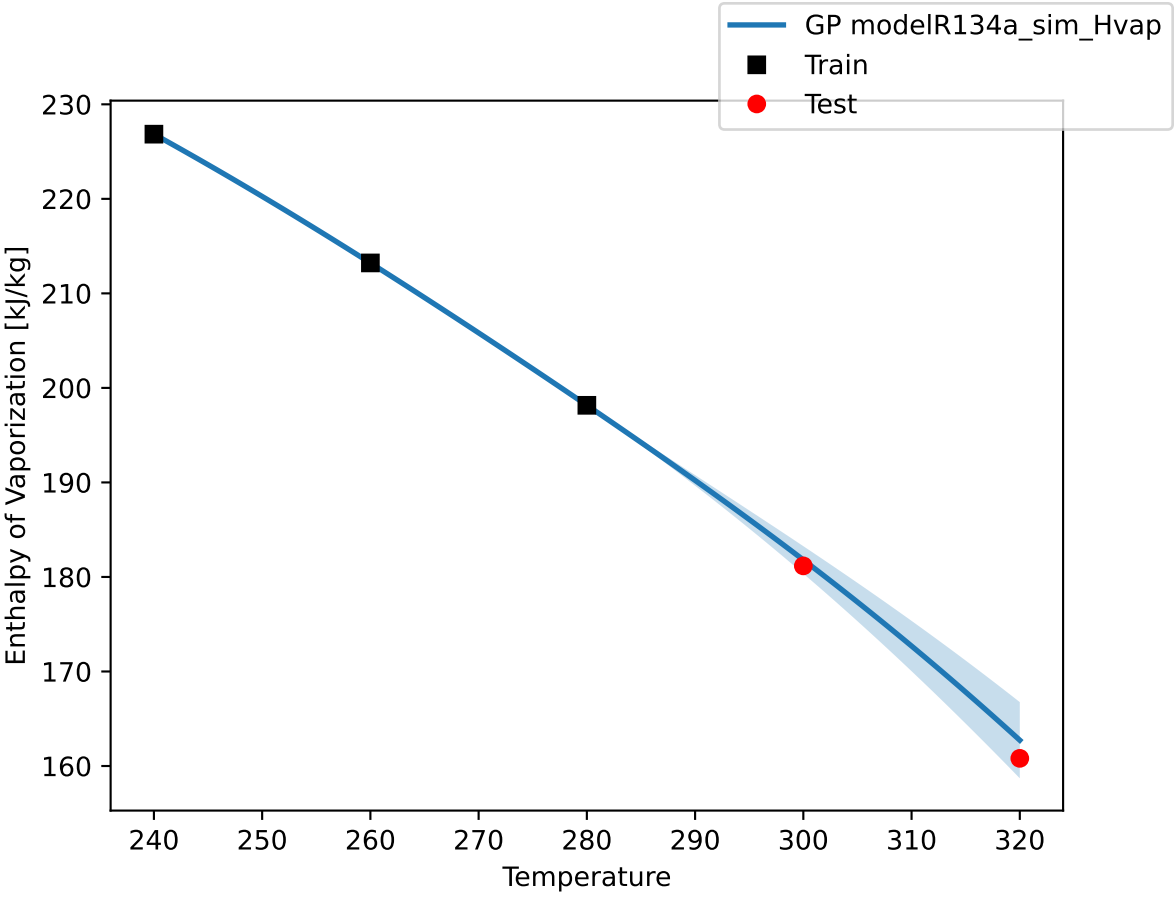
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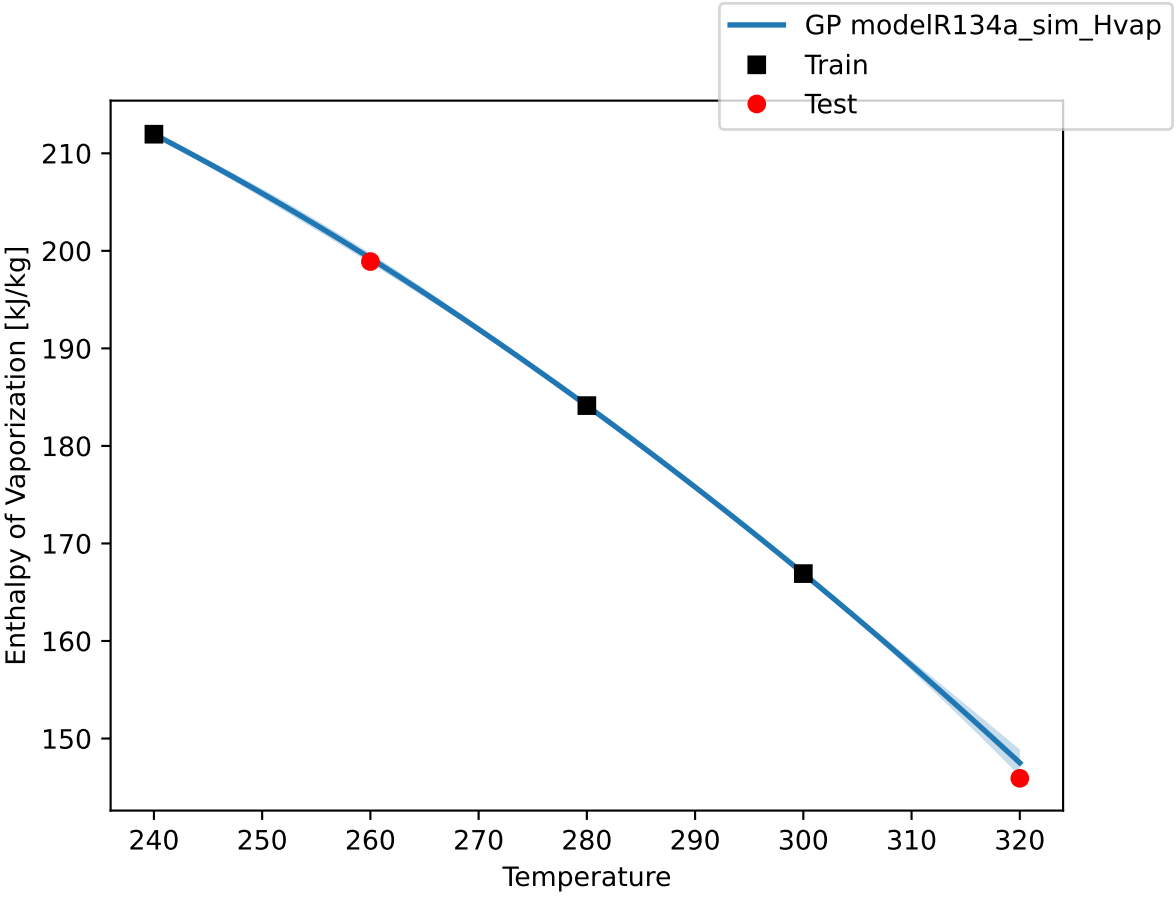
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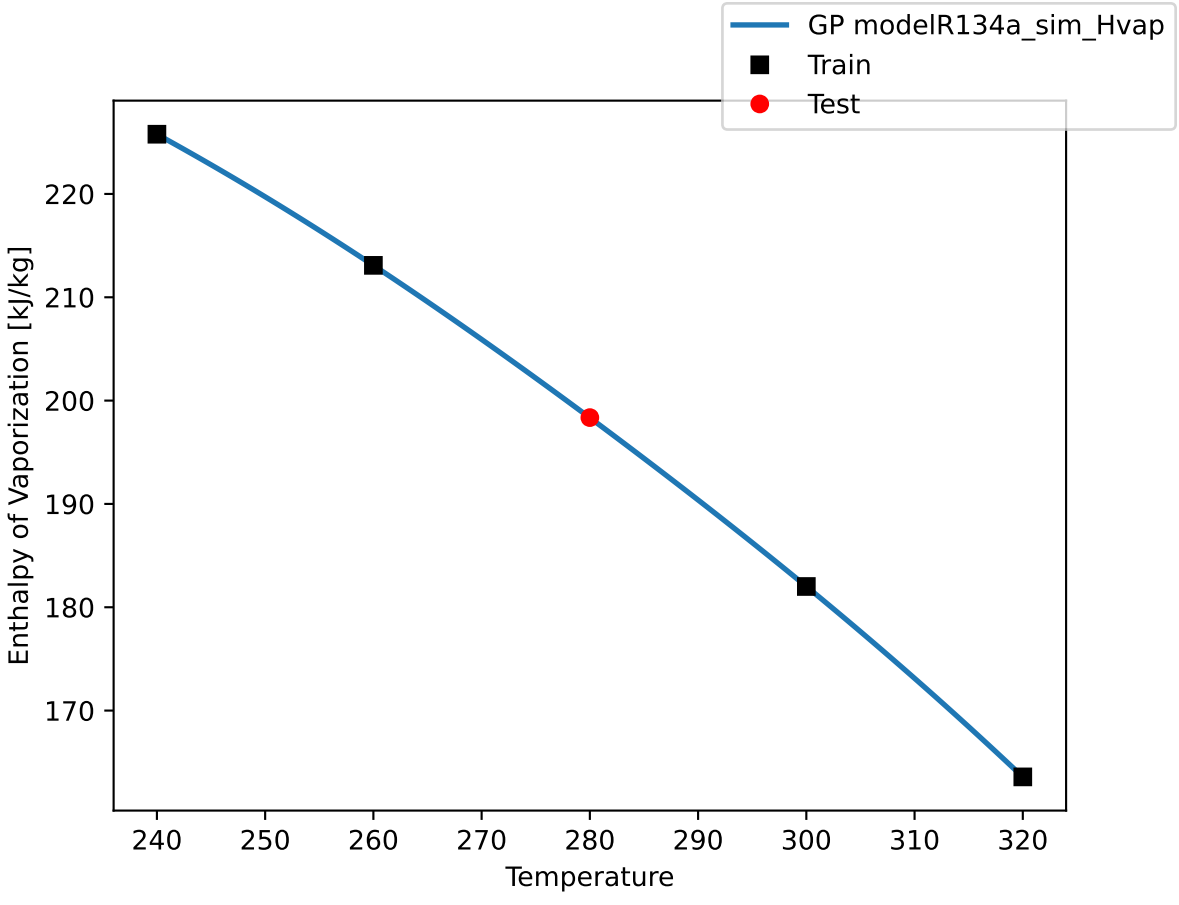
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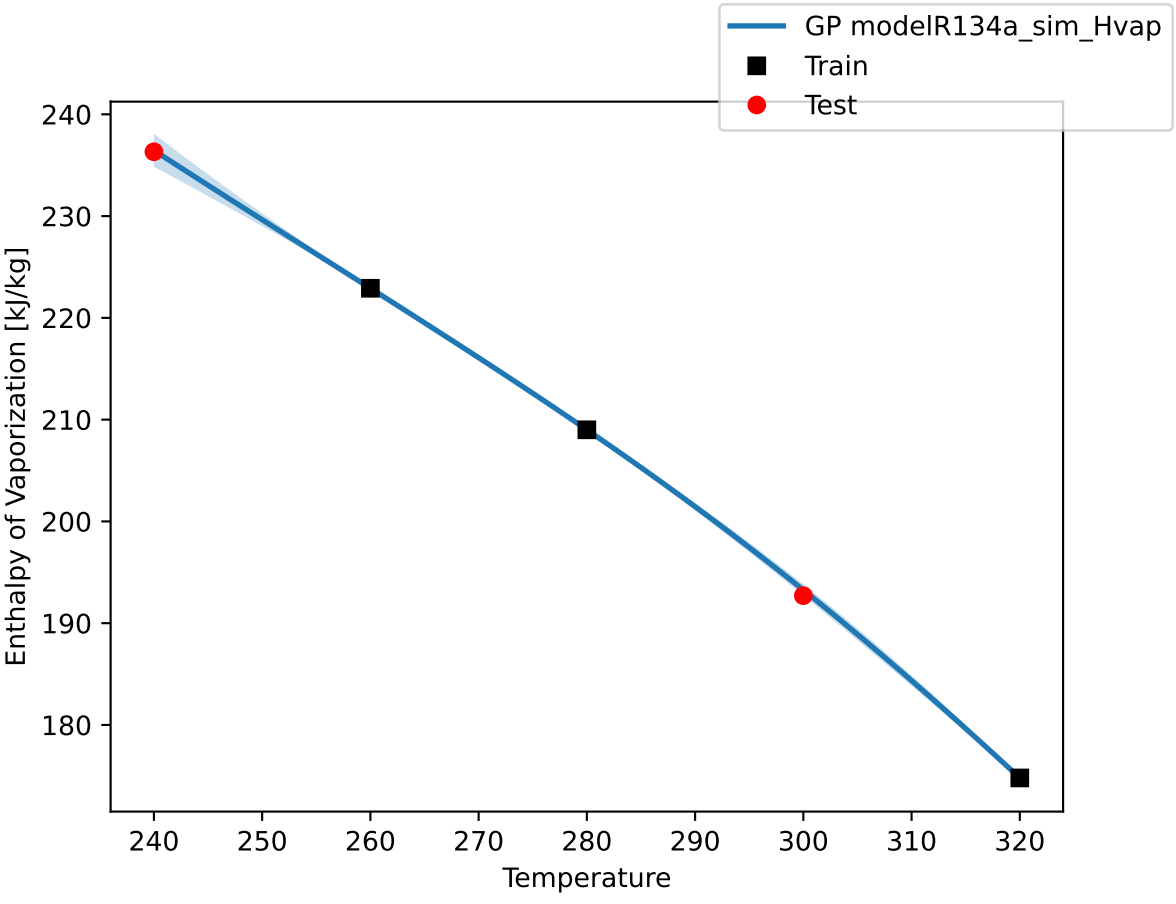
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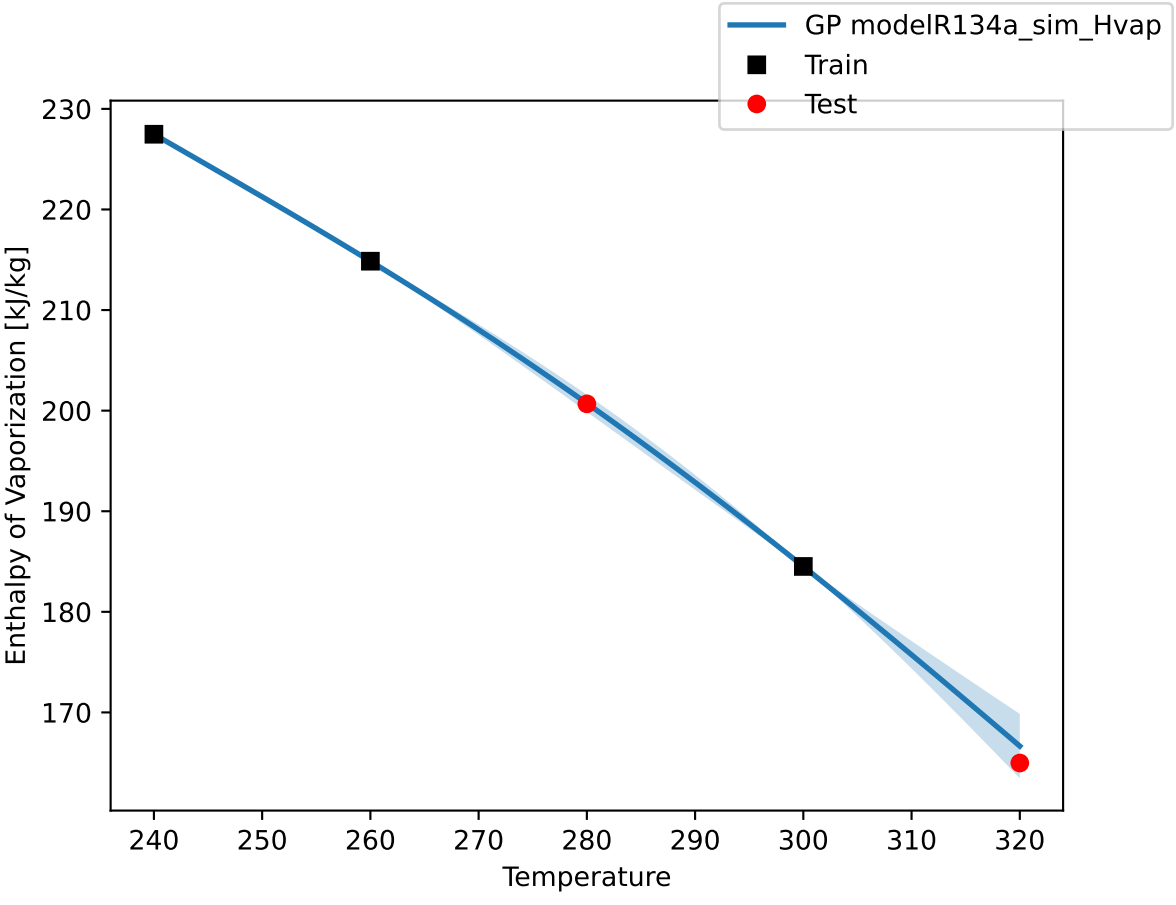
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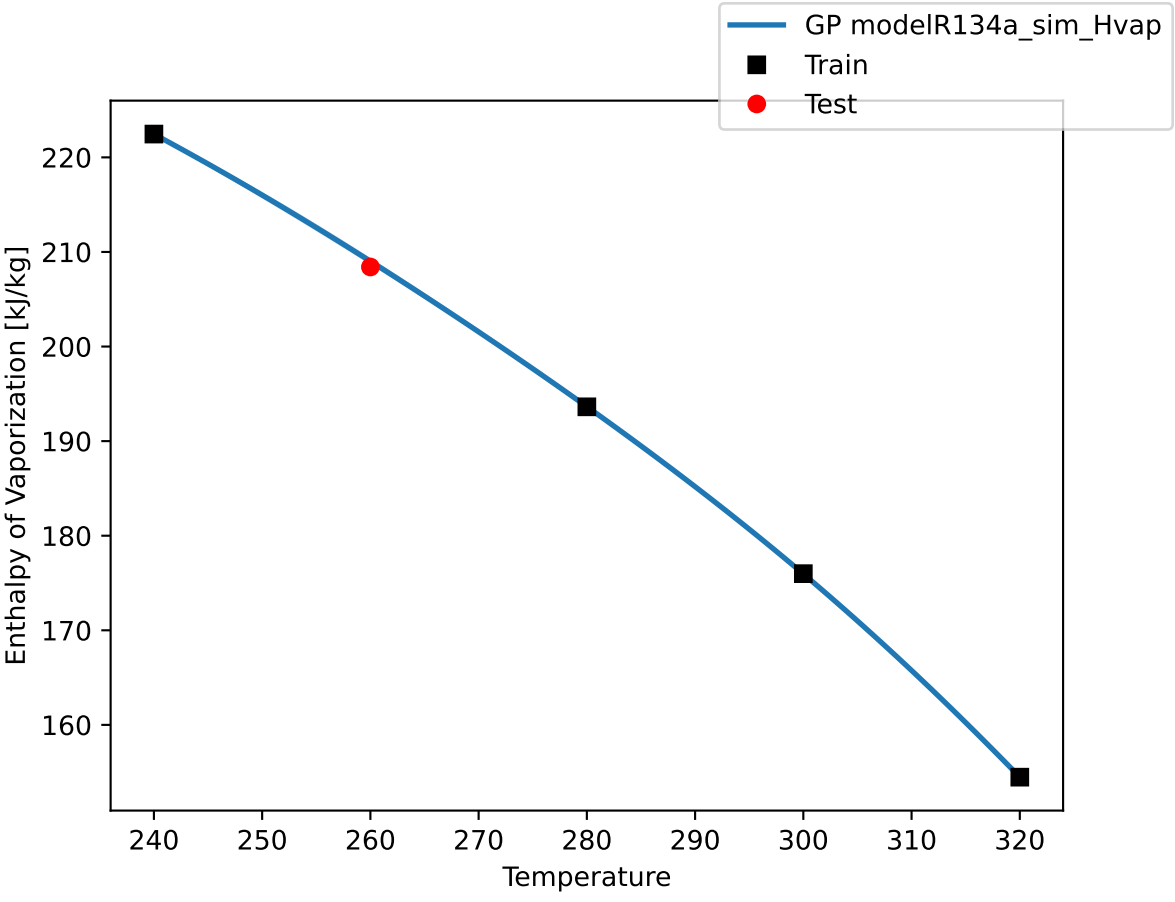
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Train
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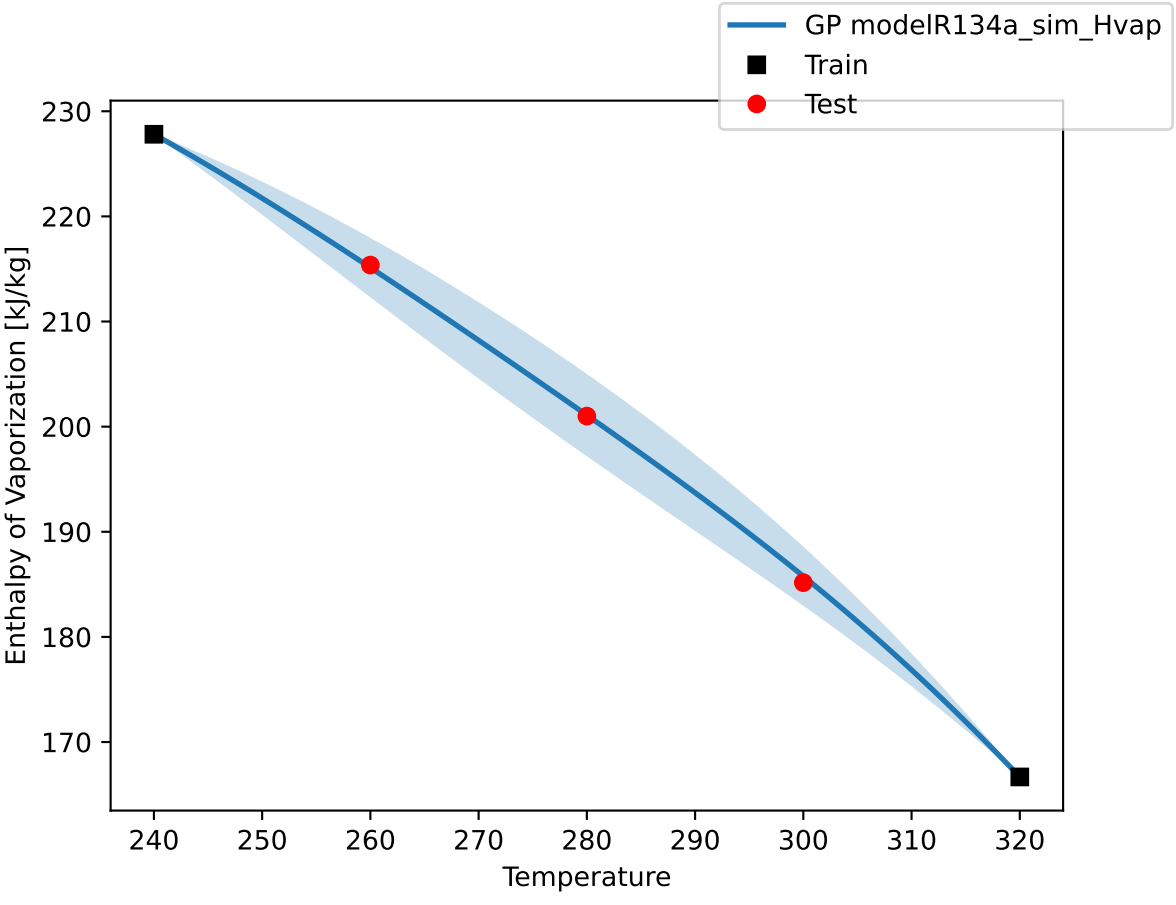
Temperature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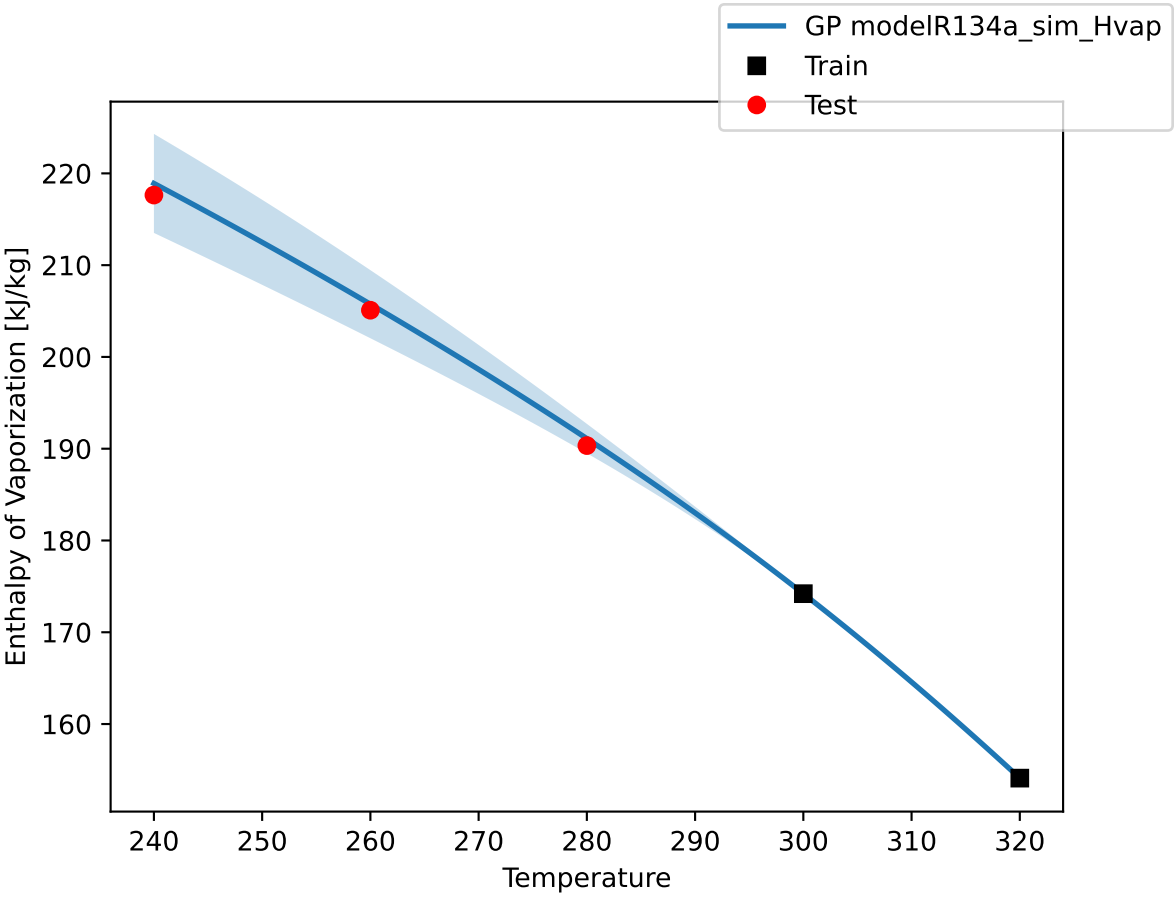
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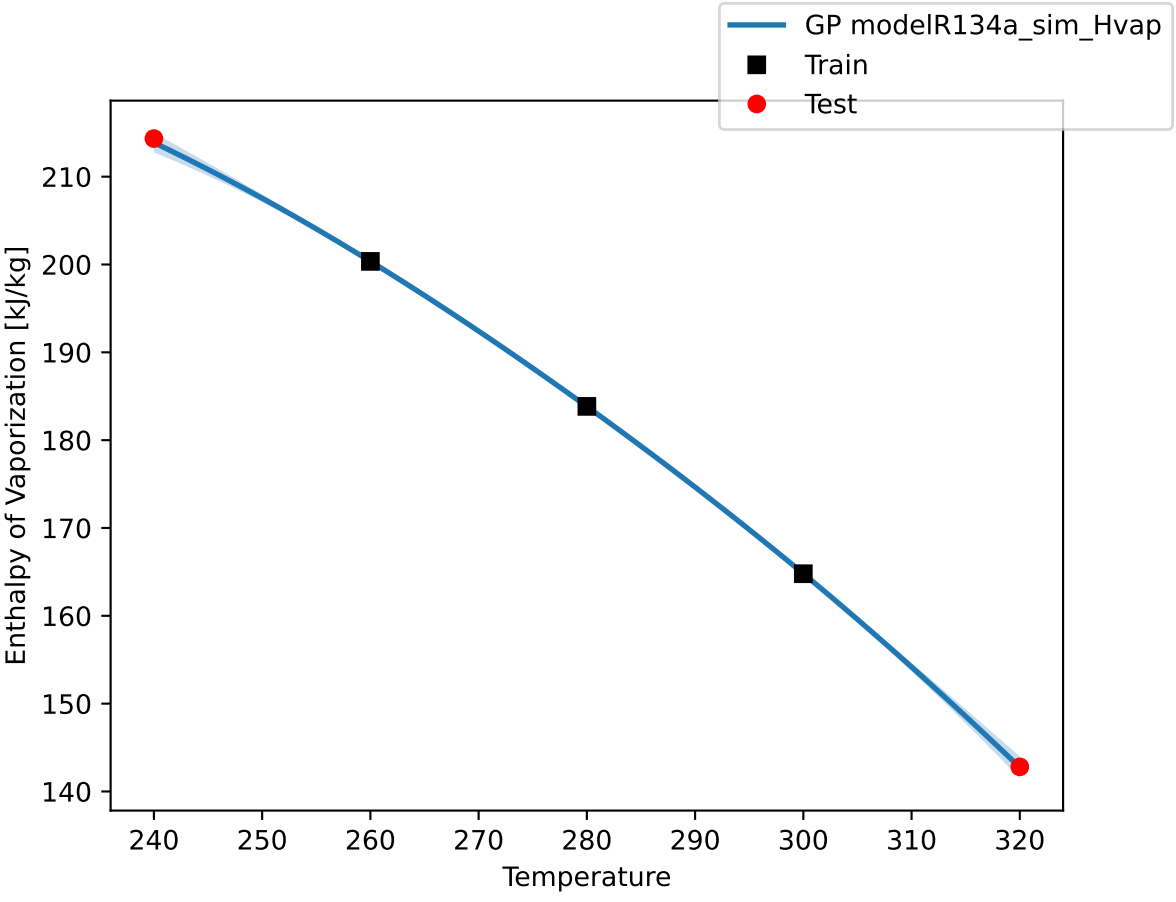
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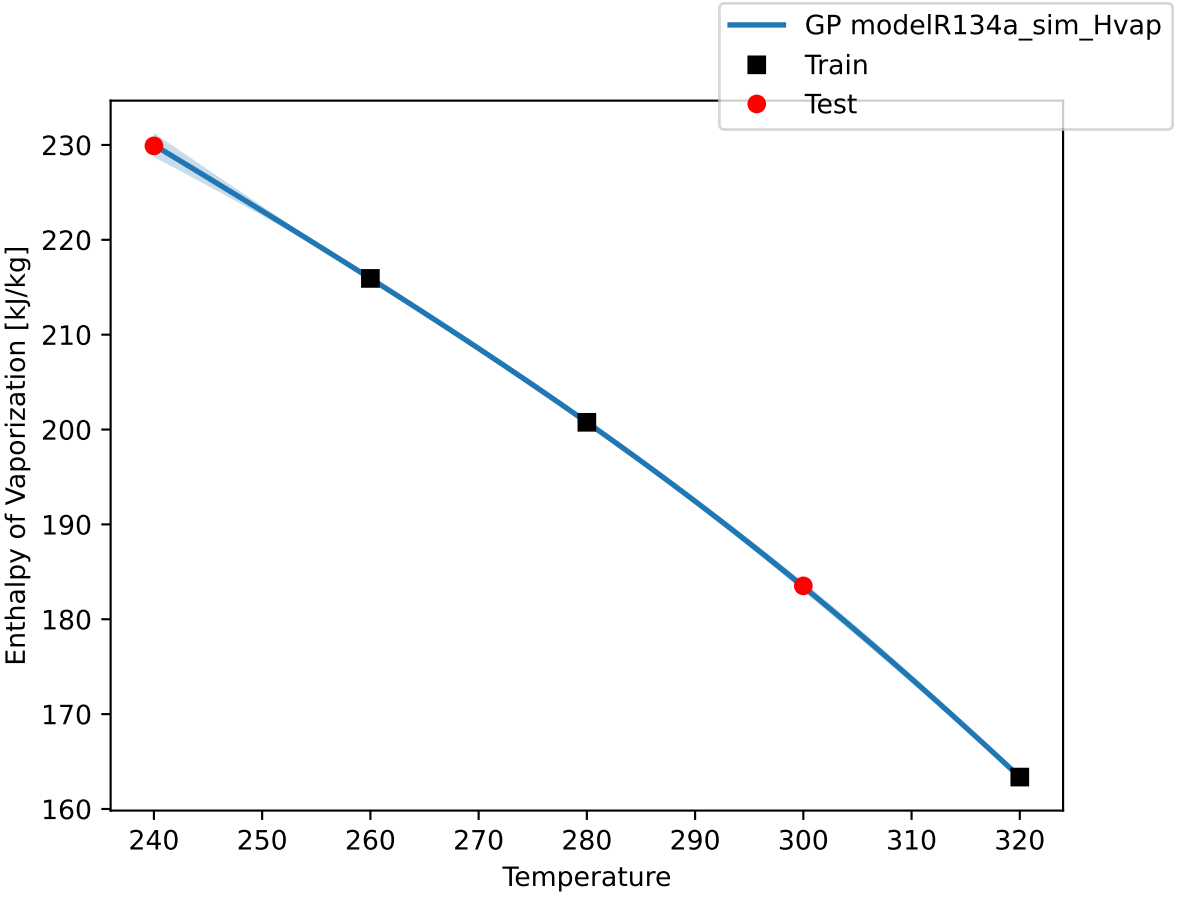
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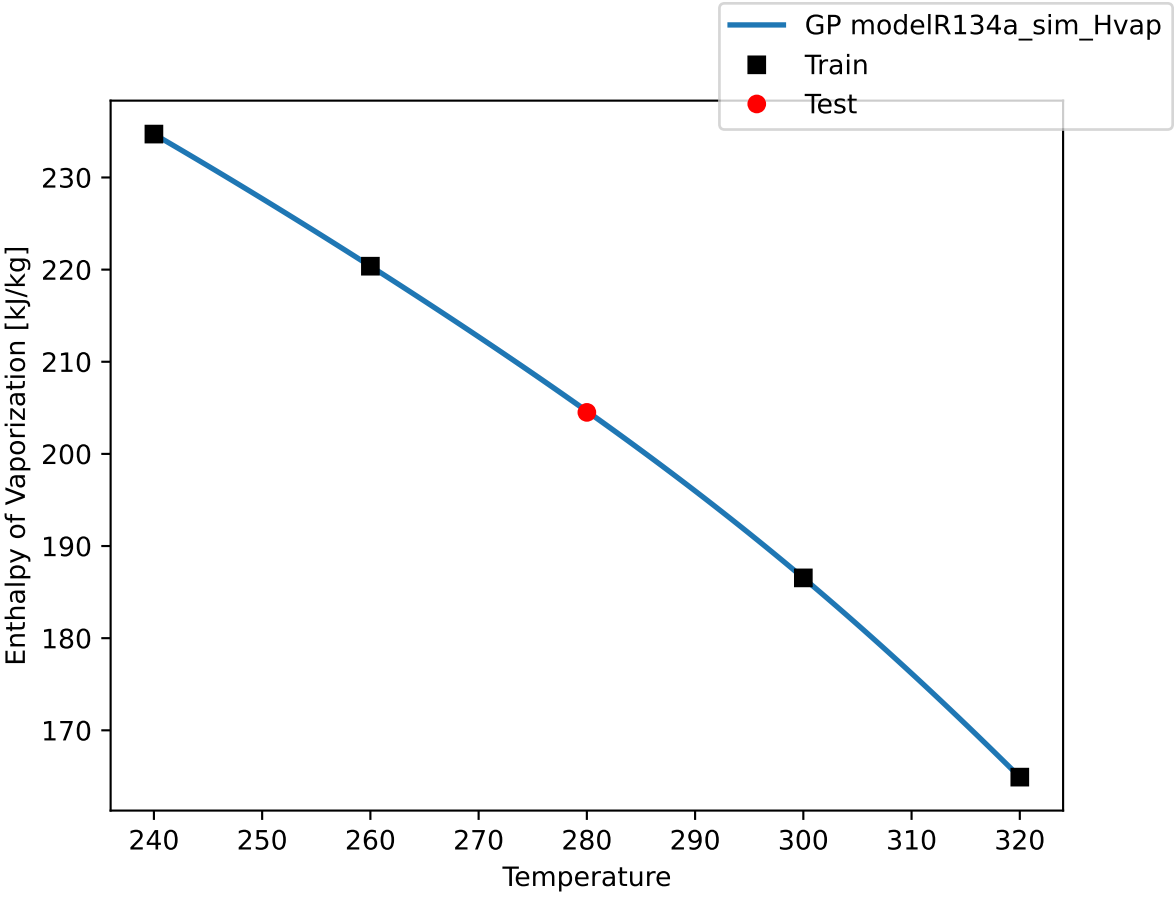
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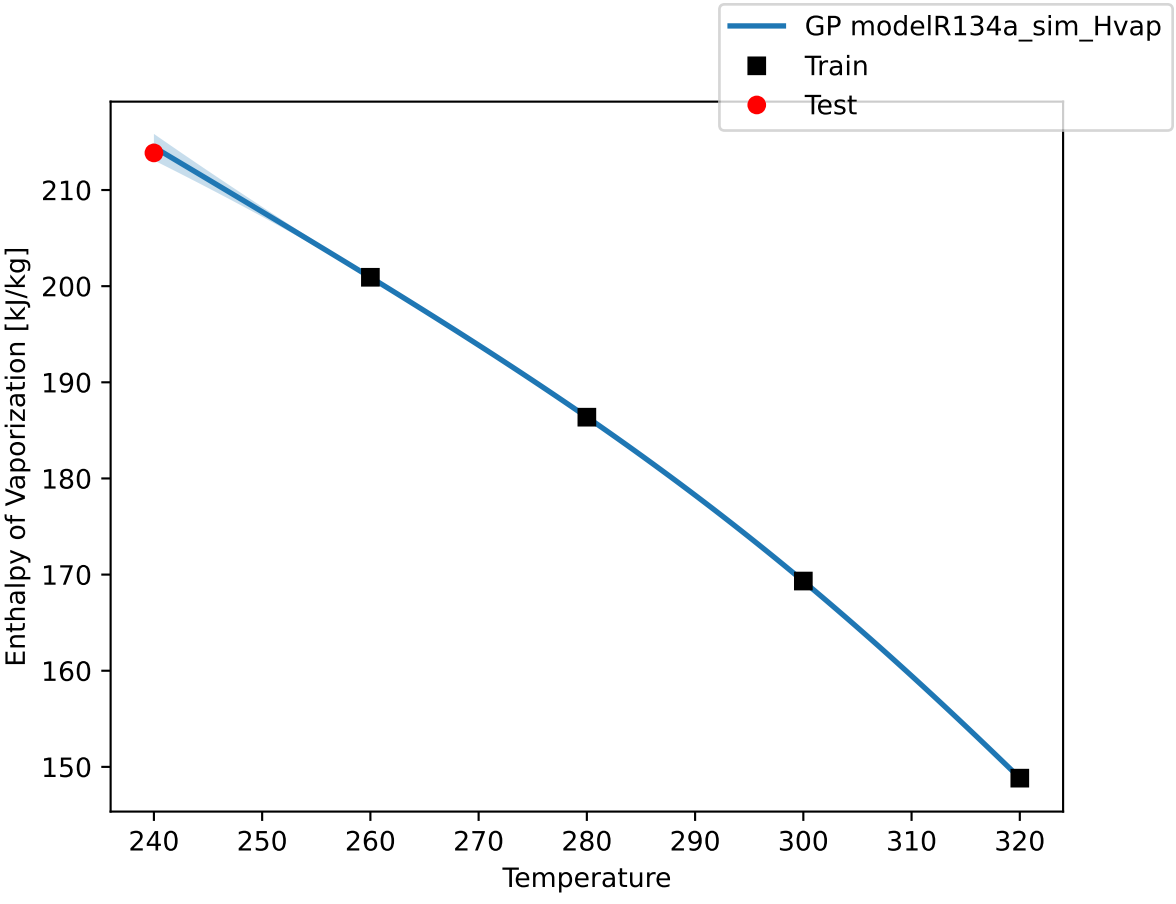
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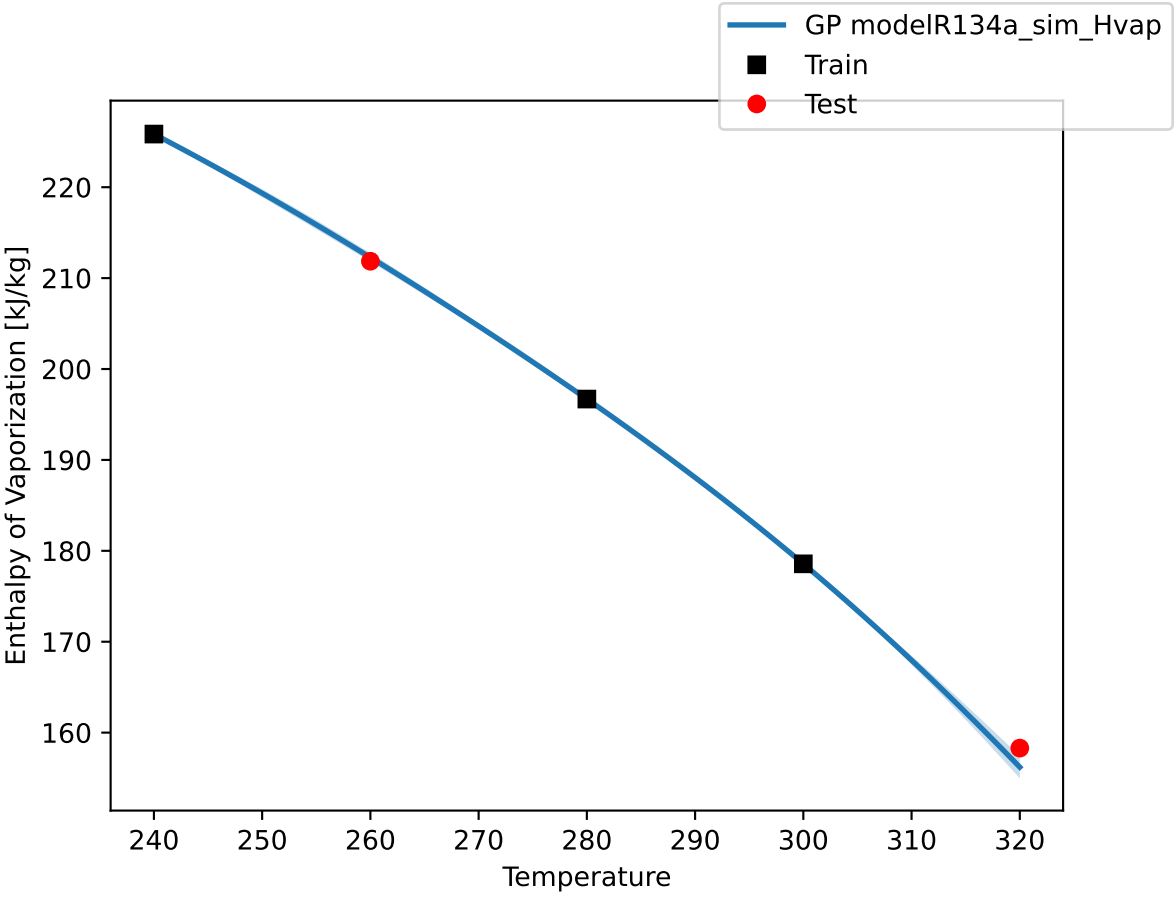
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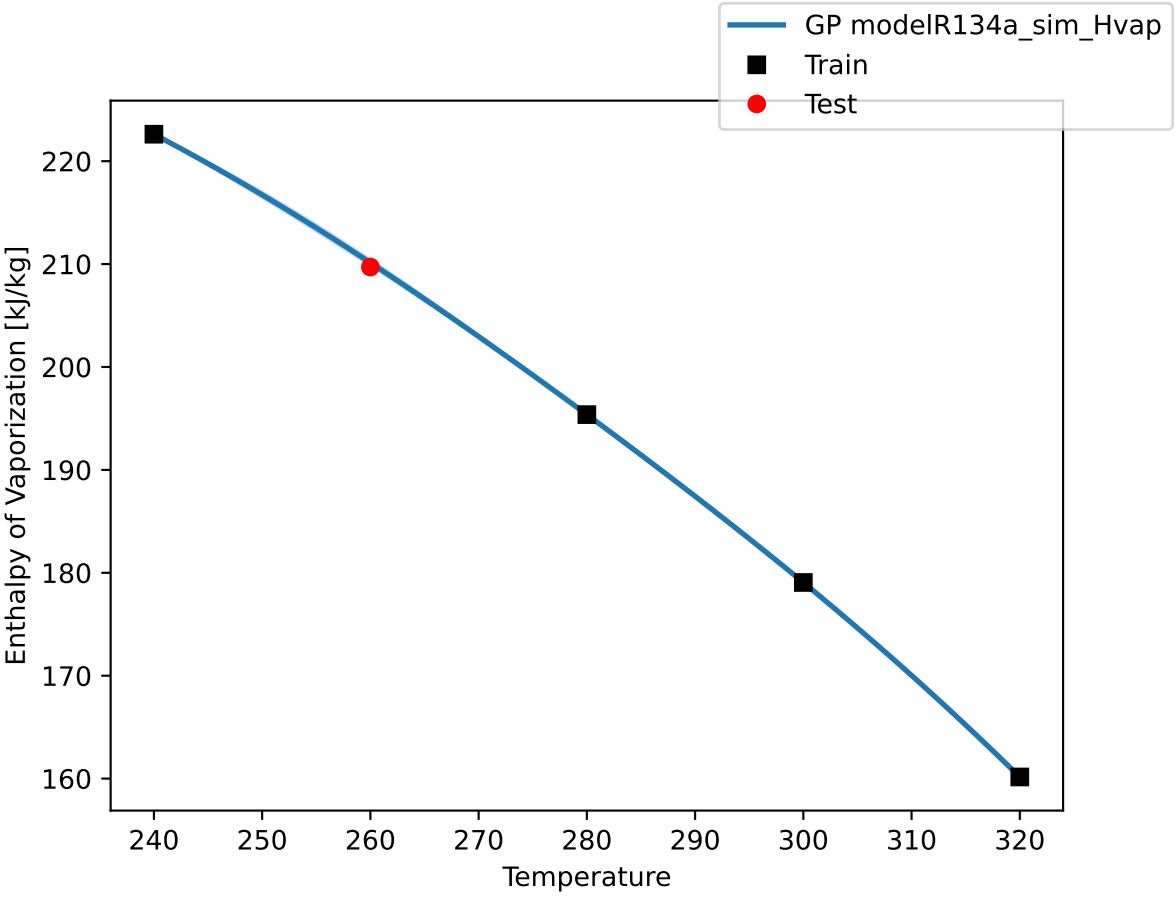
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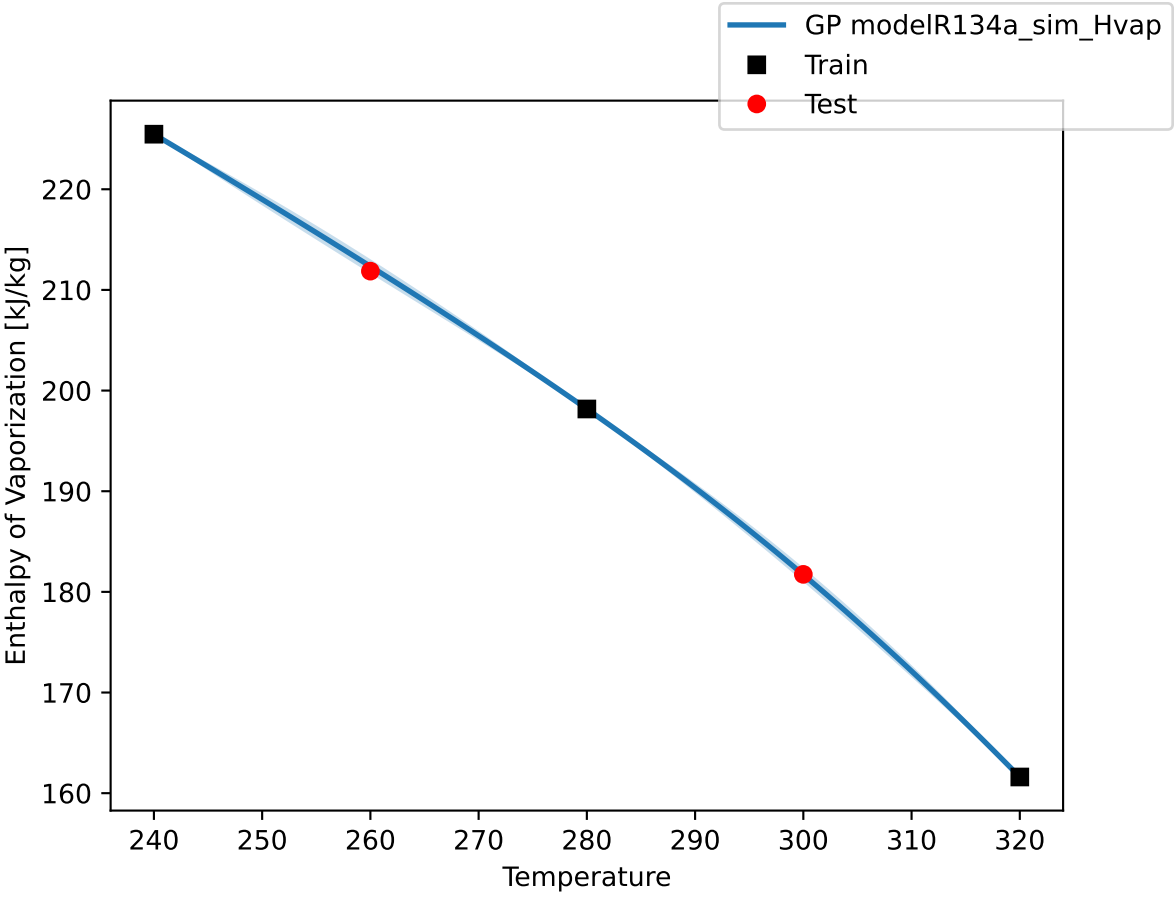
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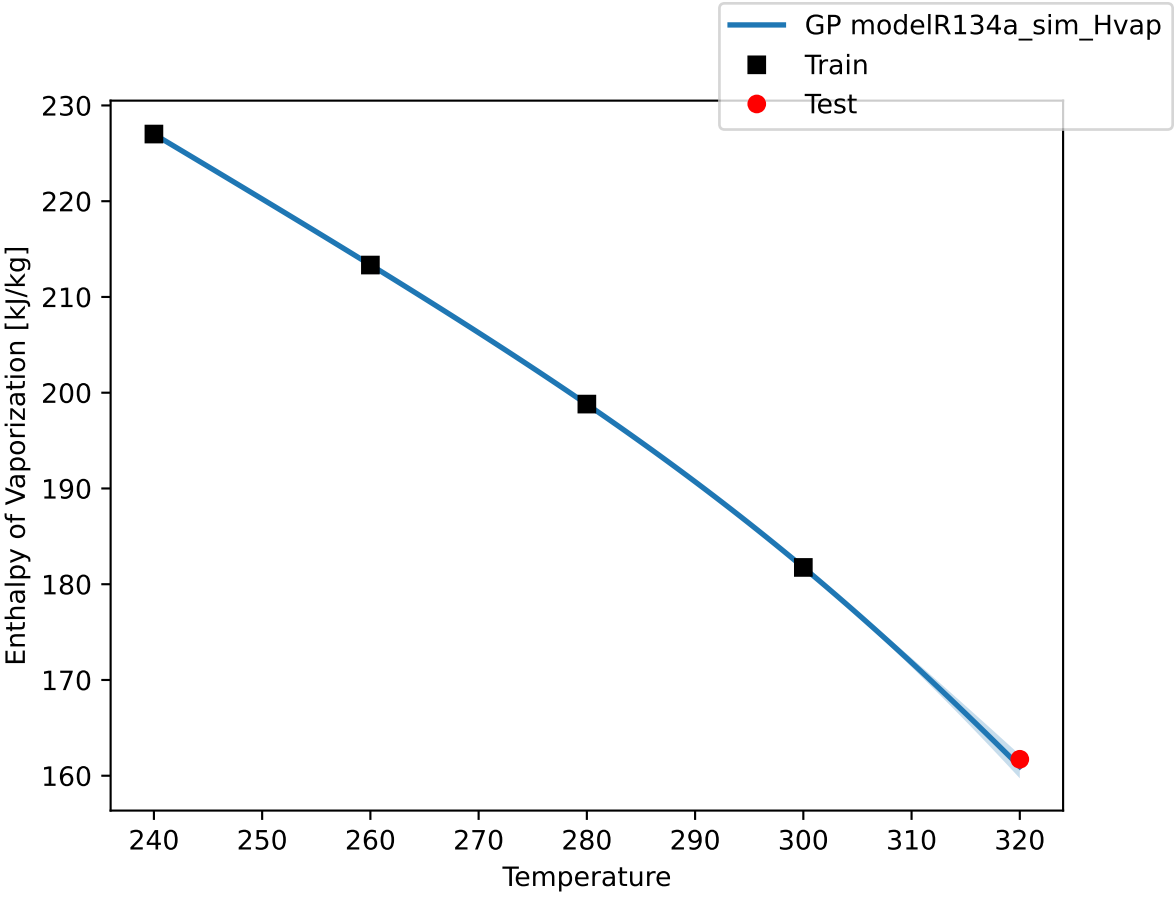
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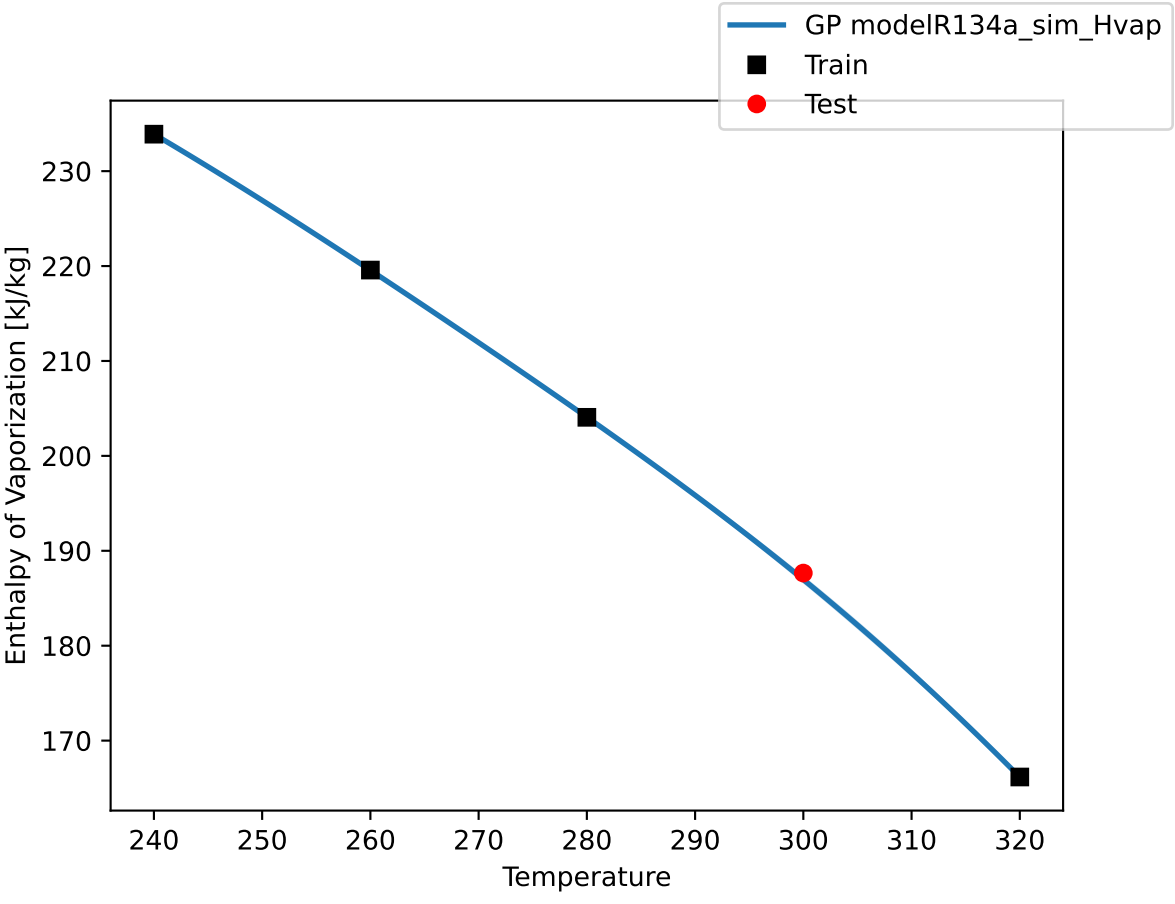
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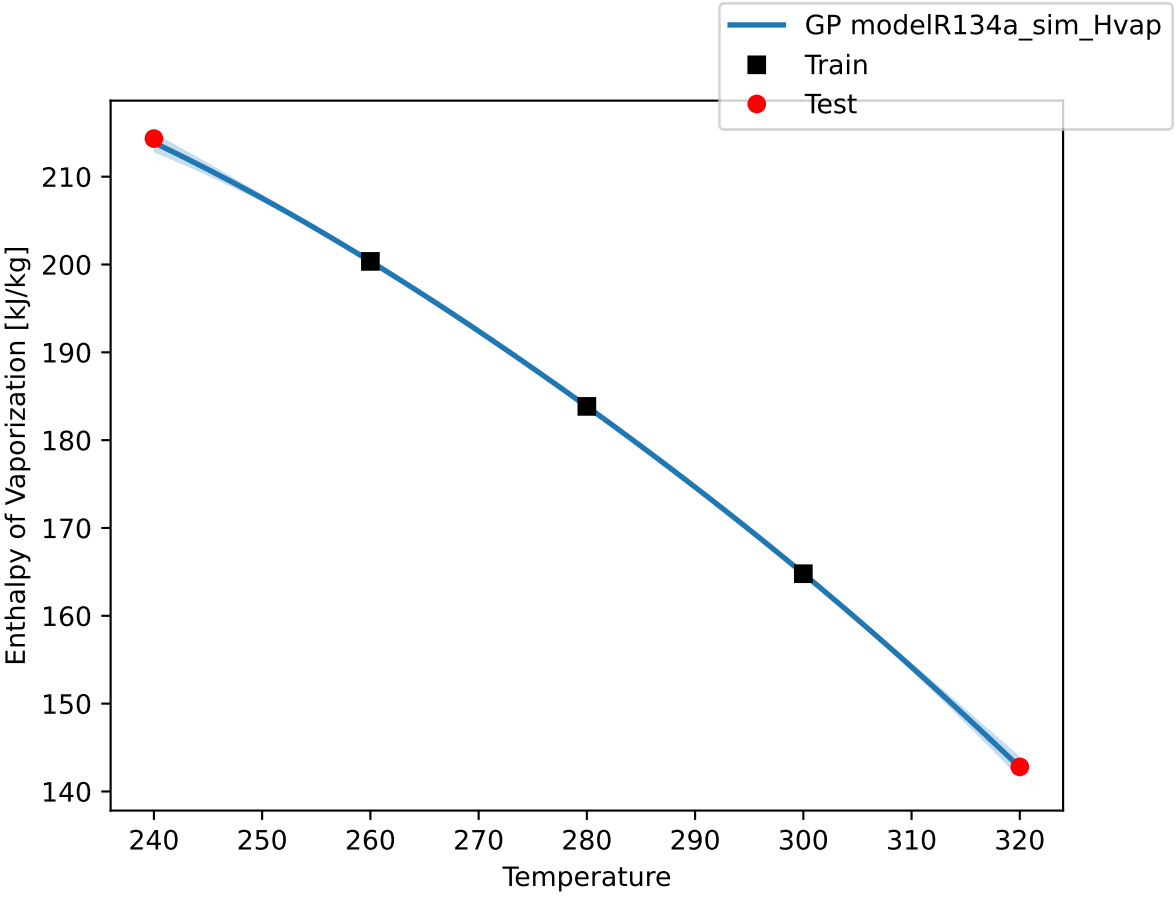
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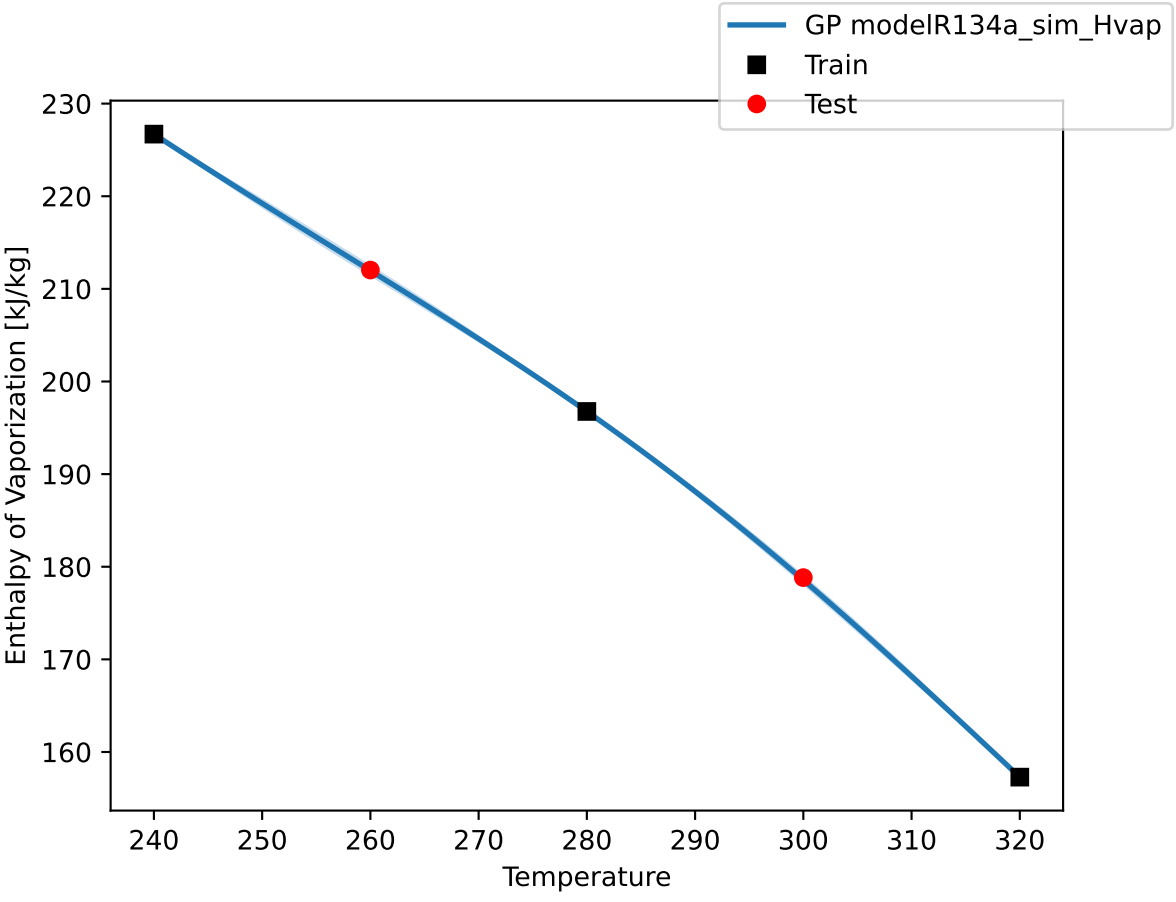
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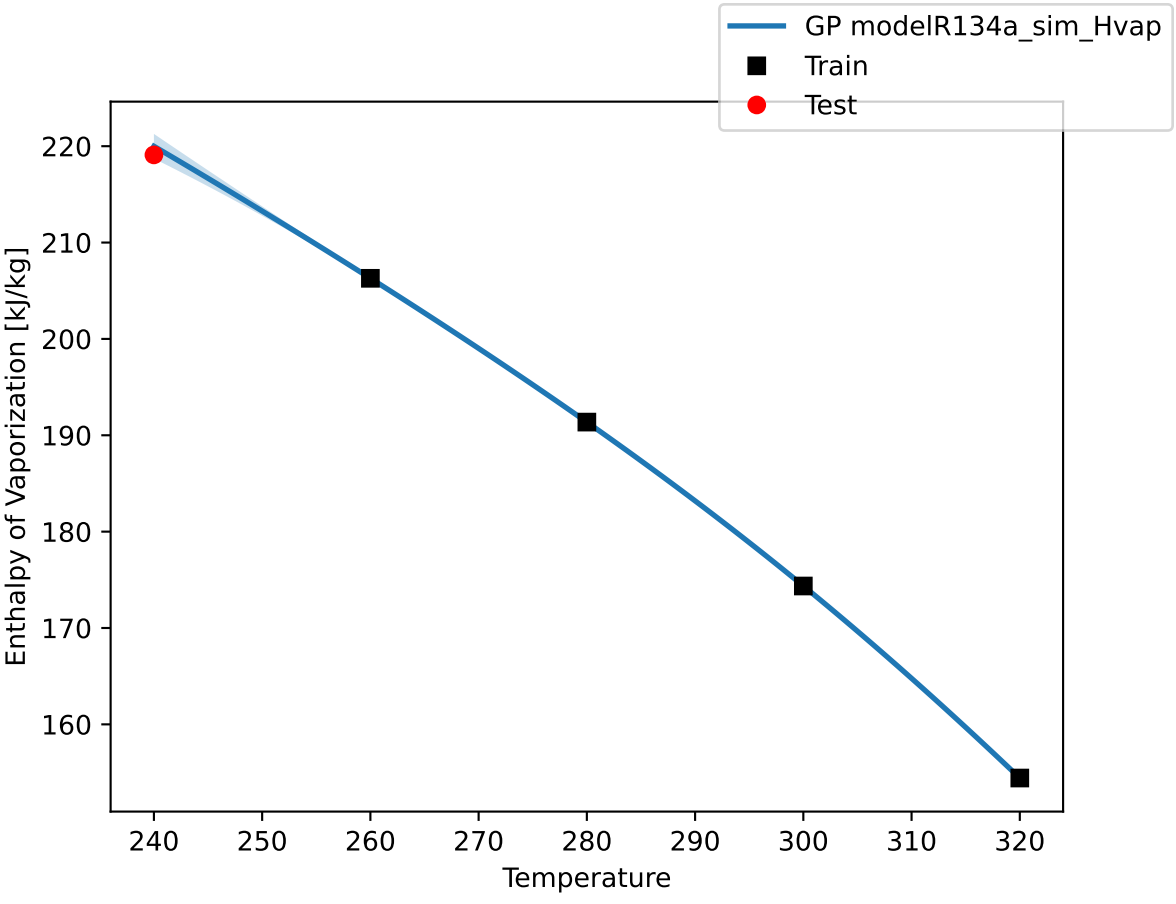
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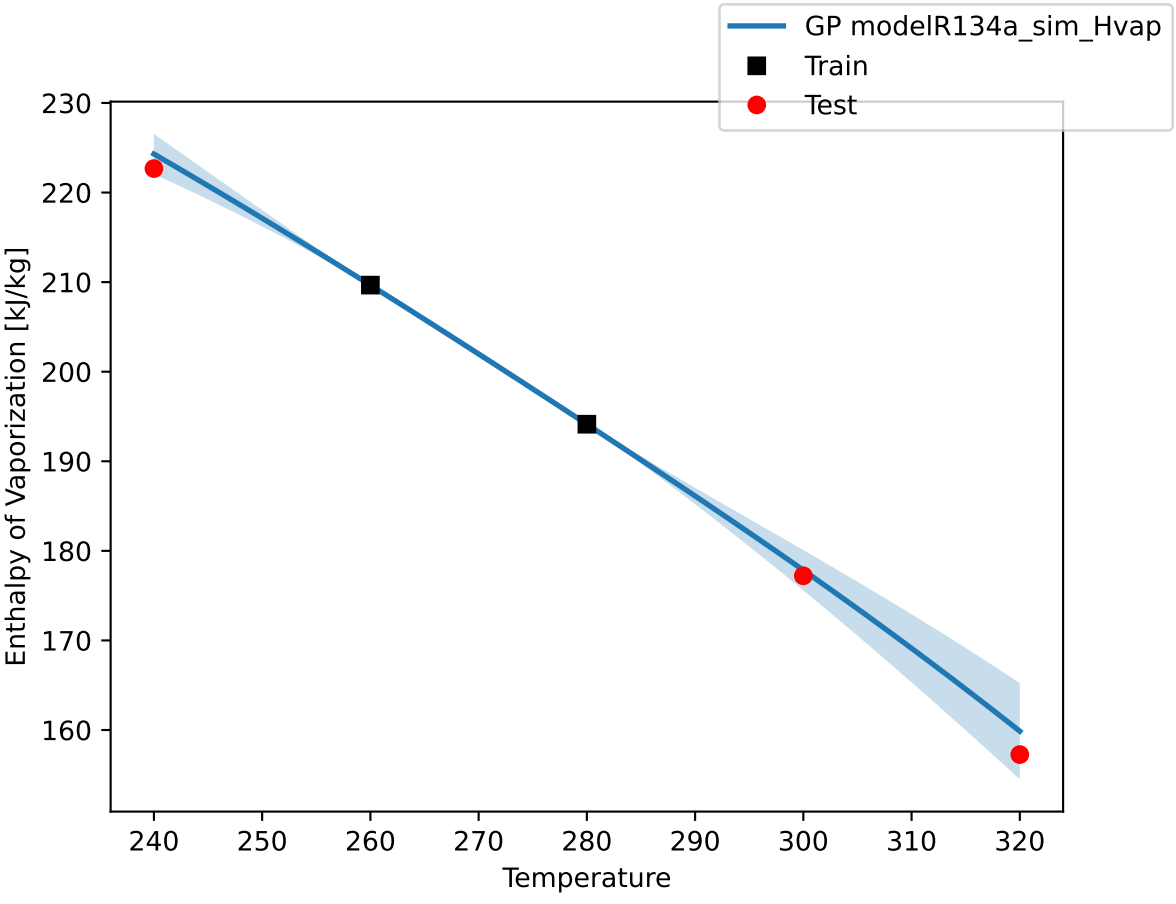
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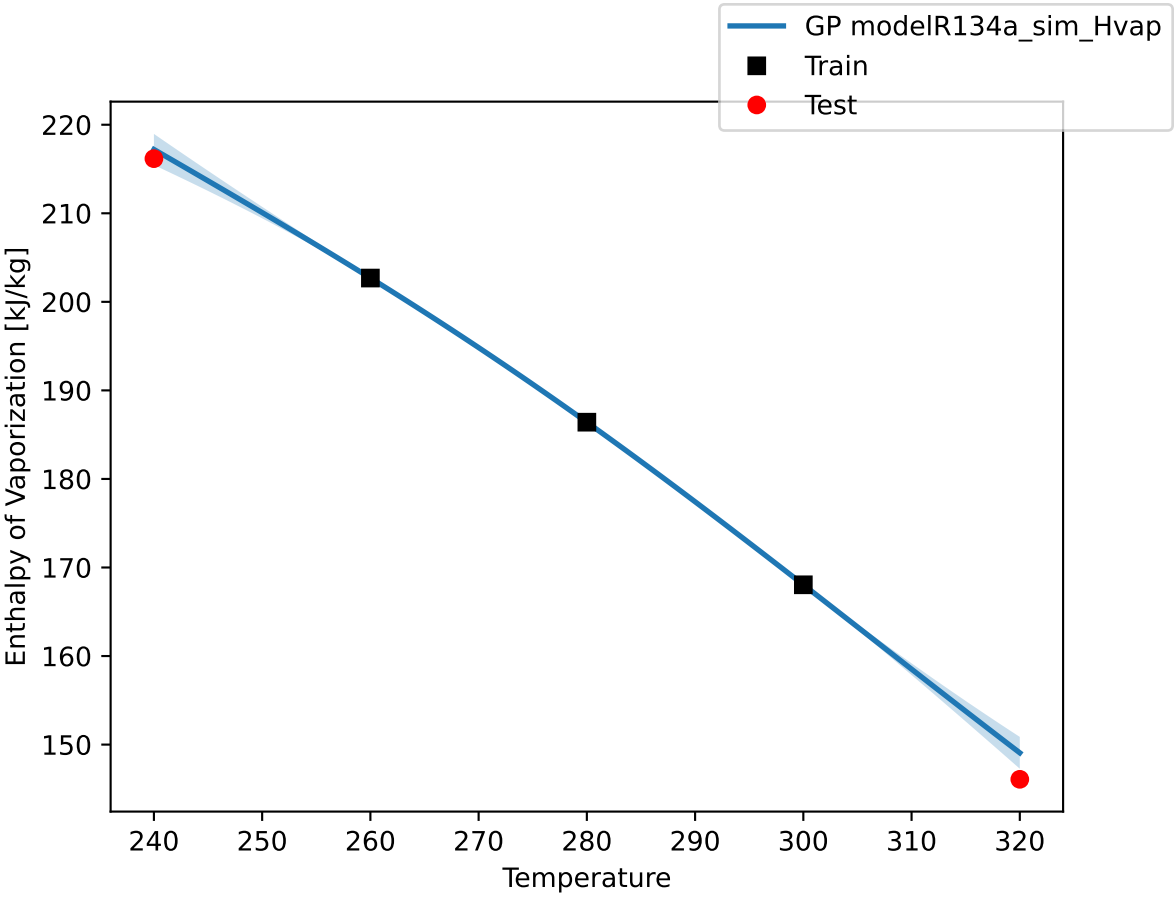
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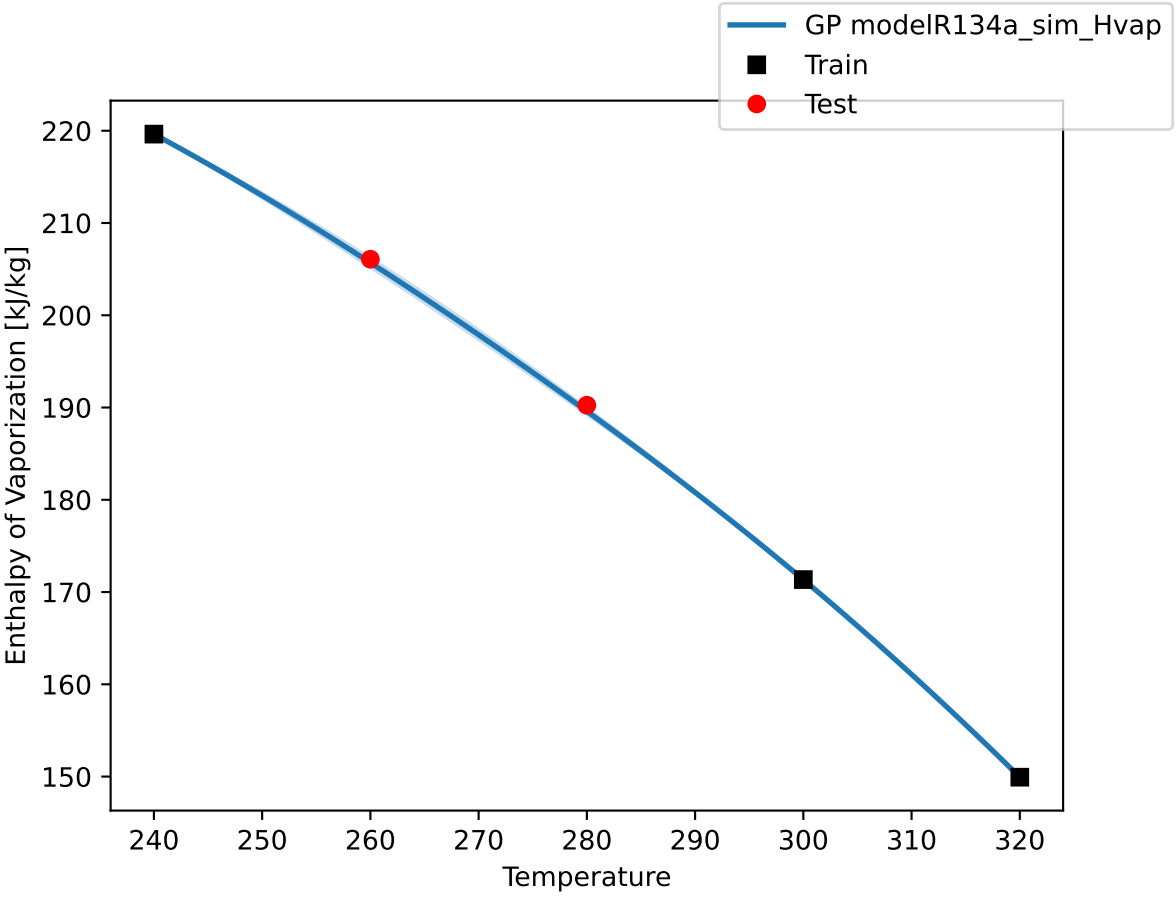
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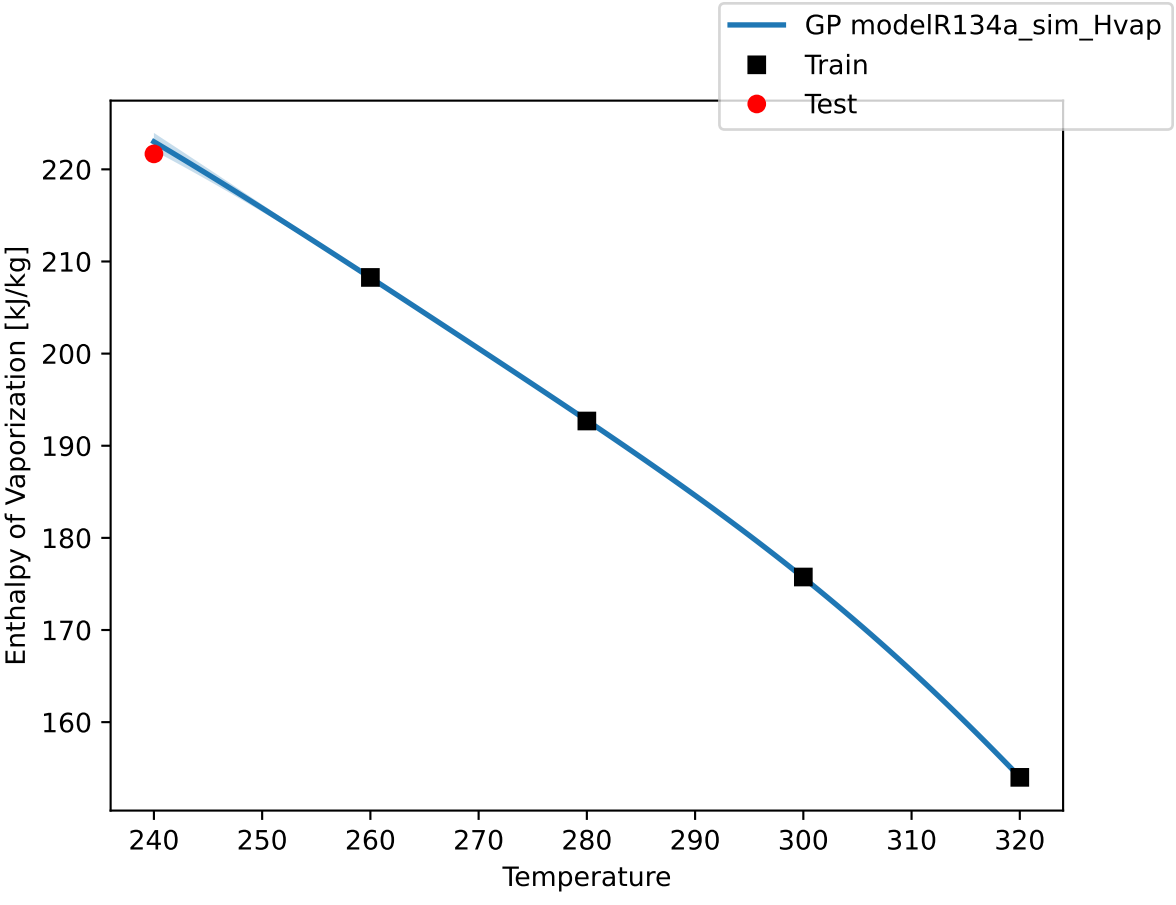
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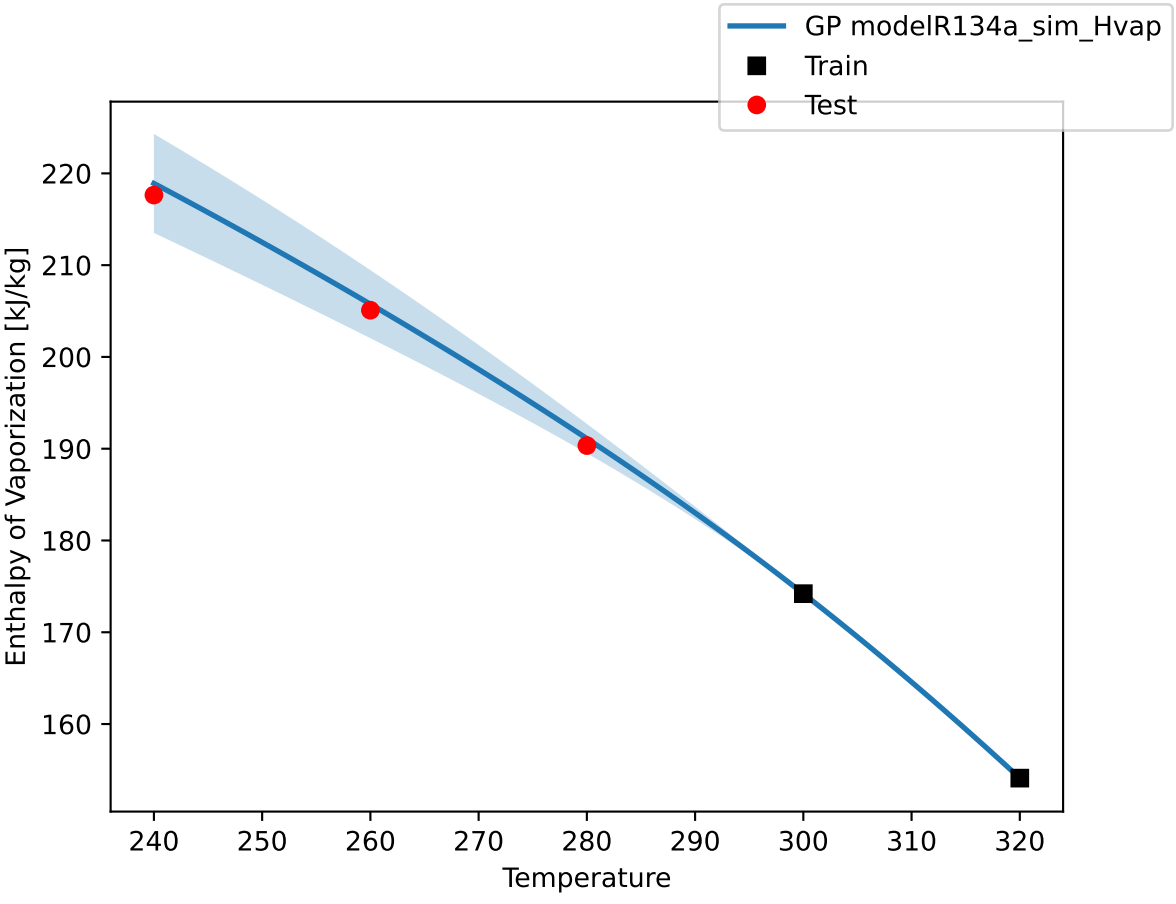
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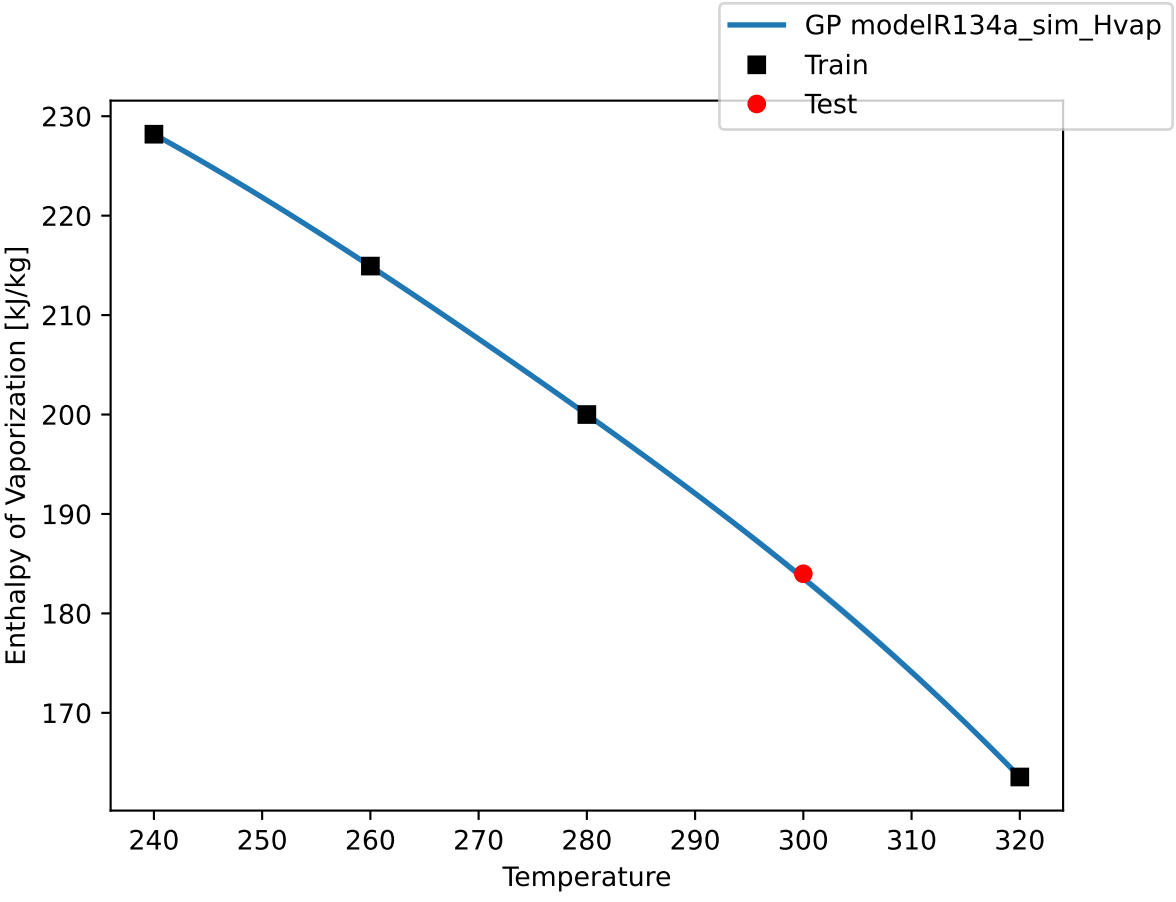
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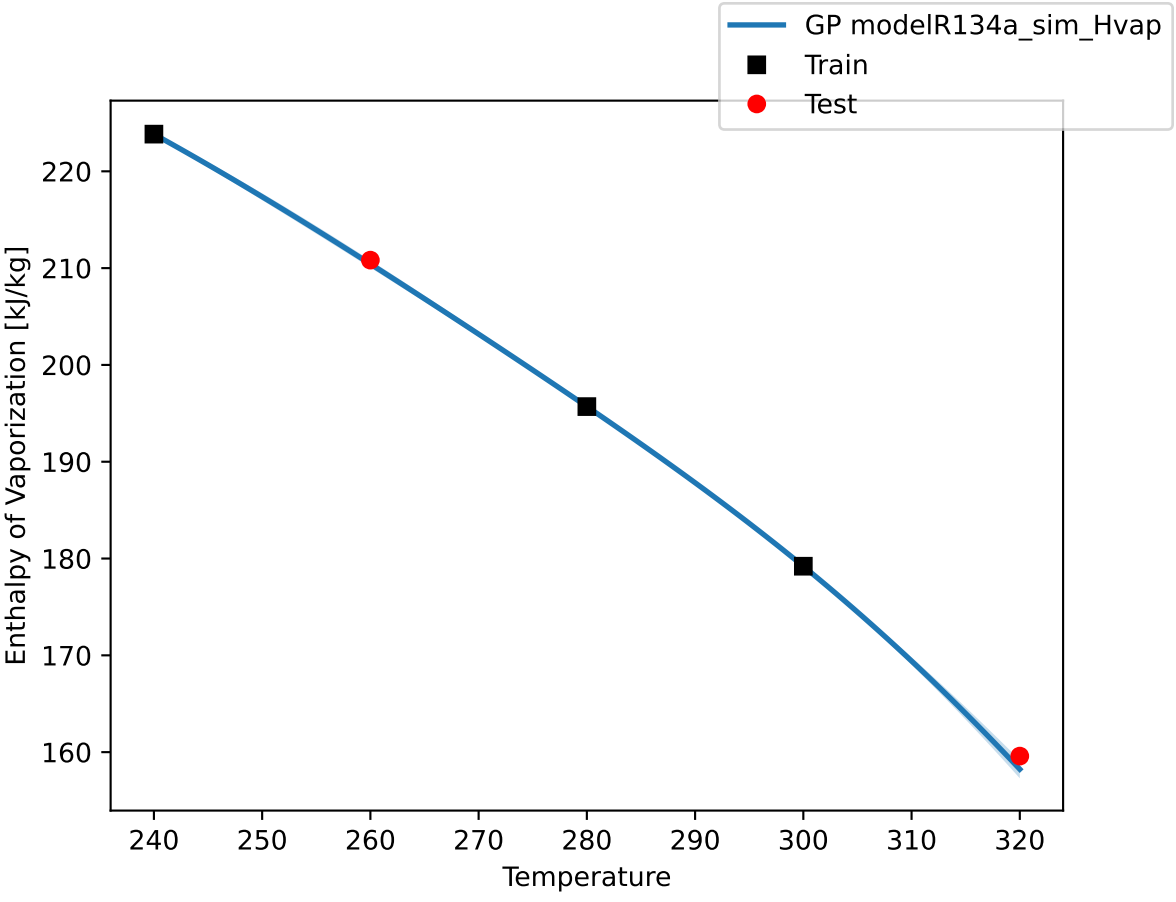
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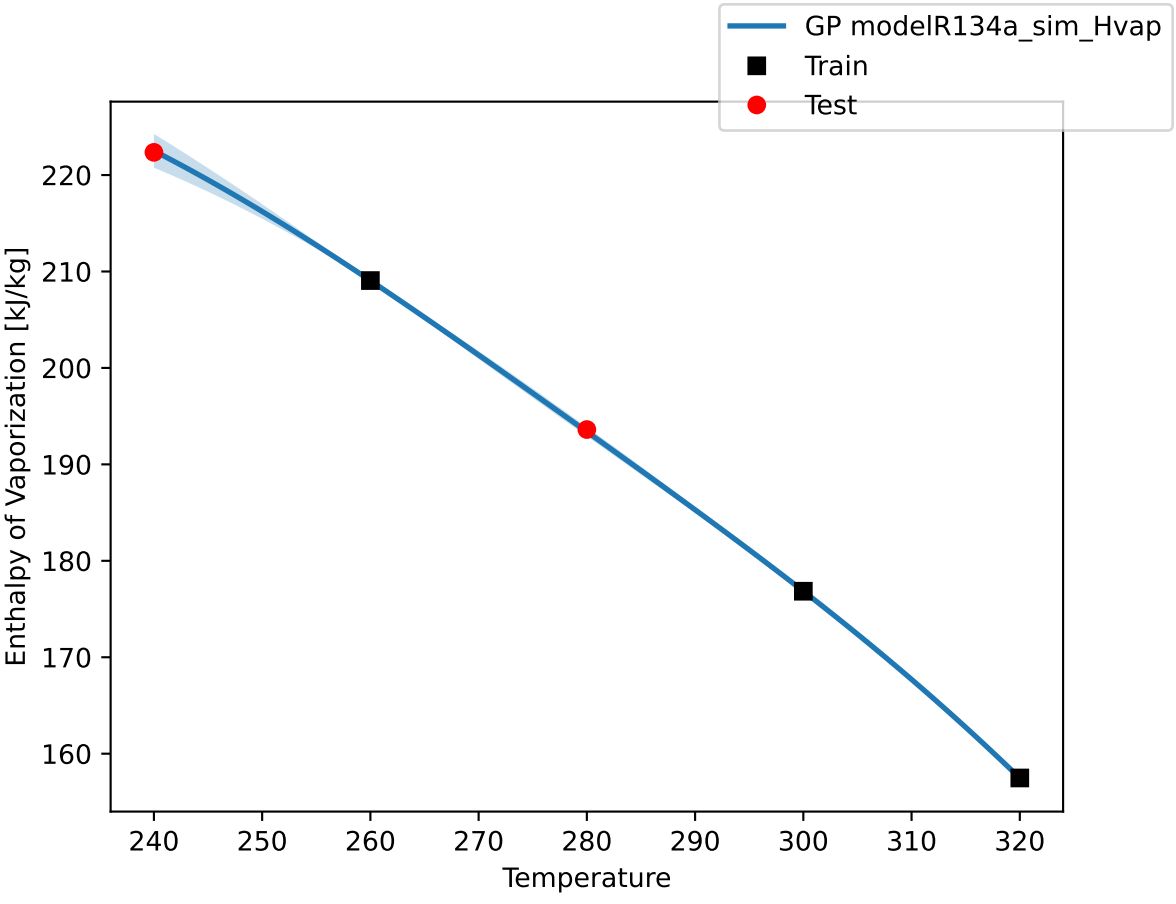
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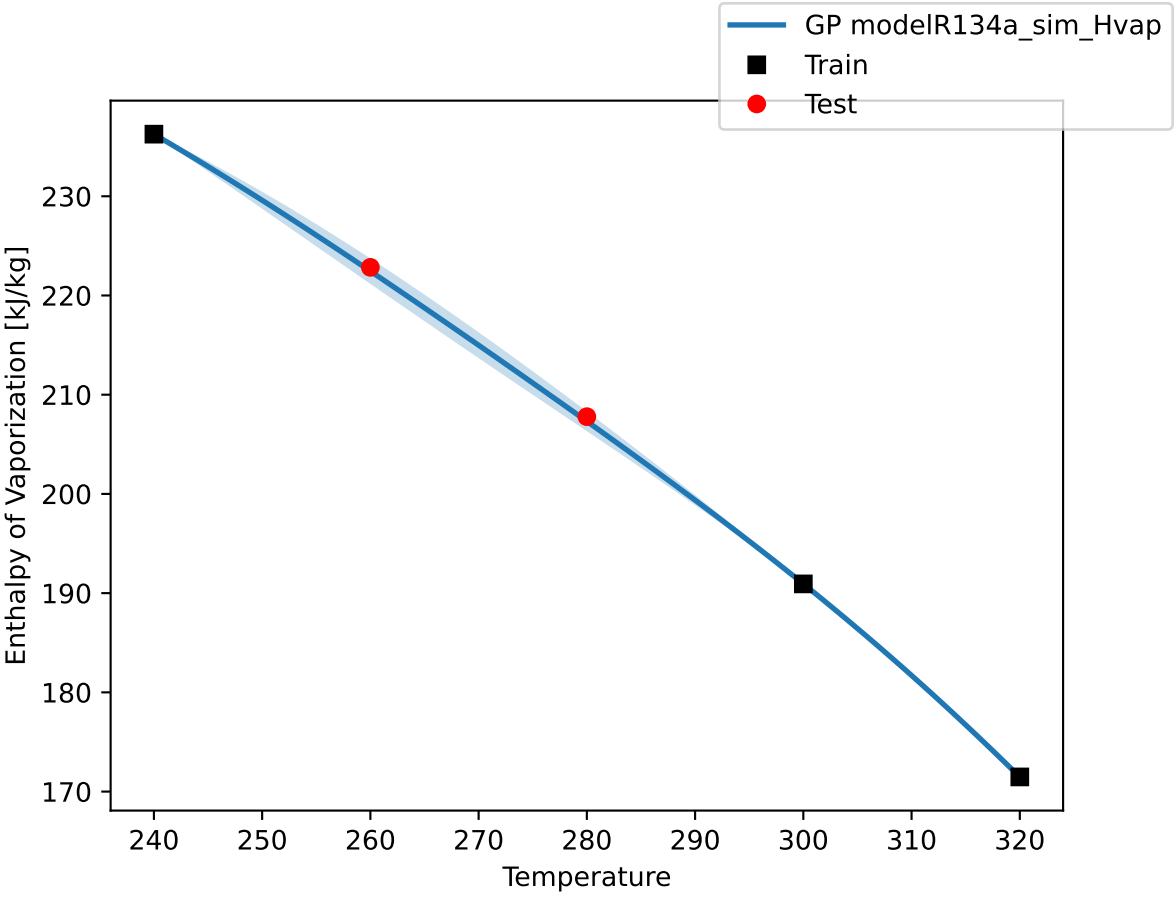
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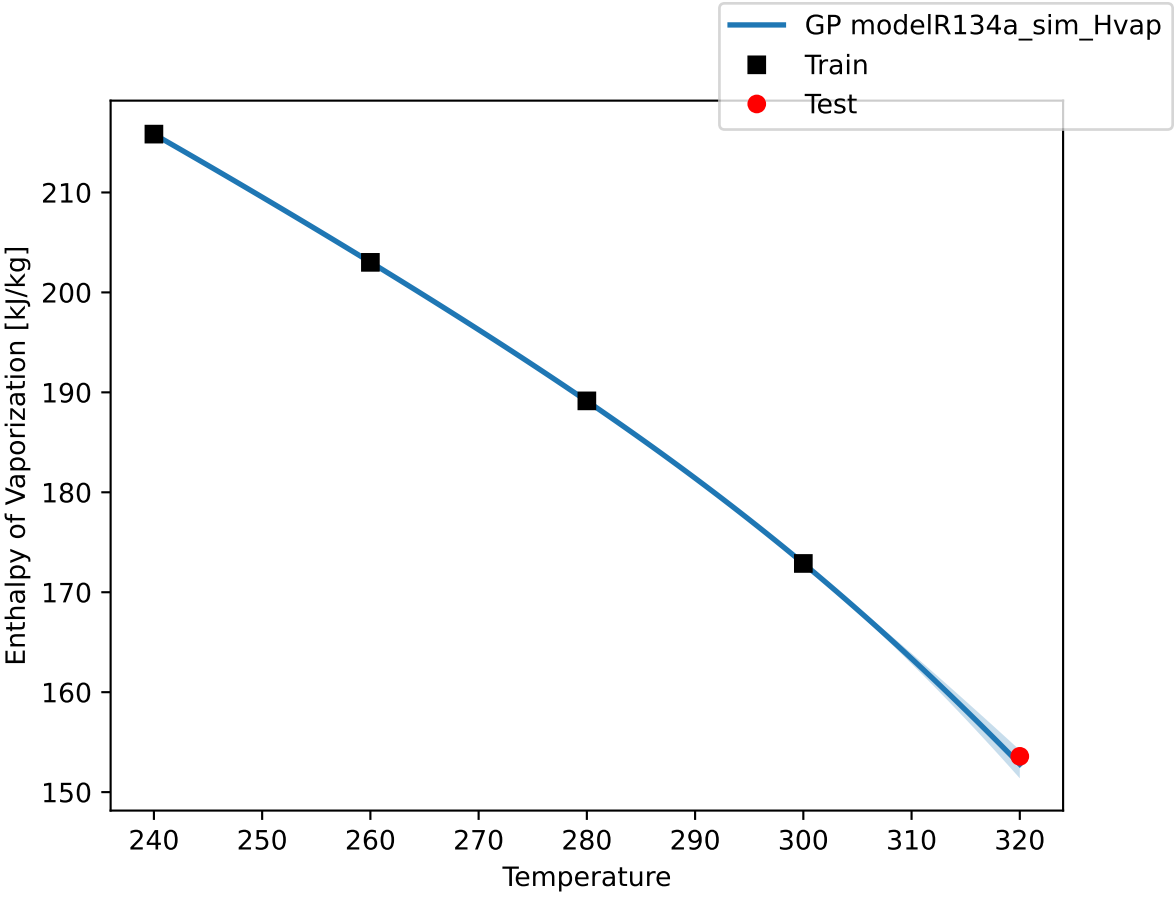
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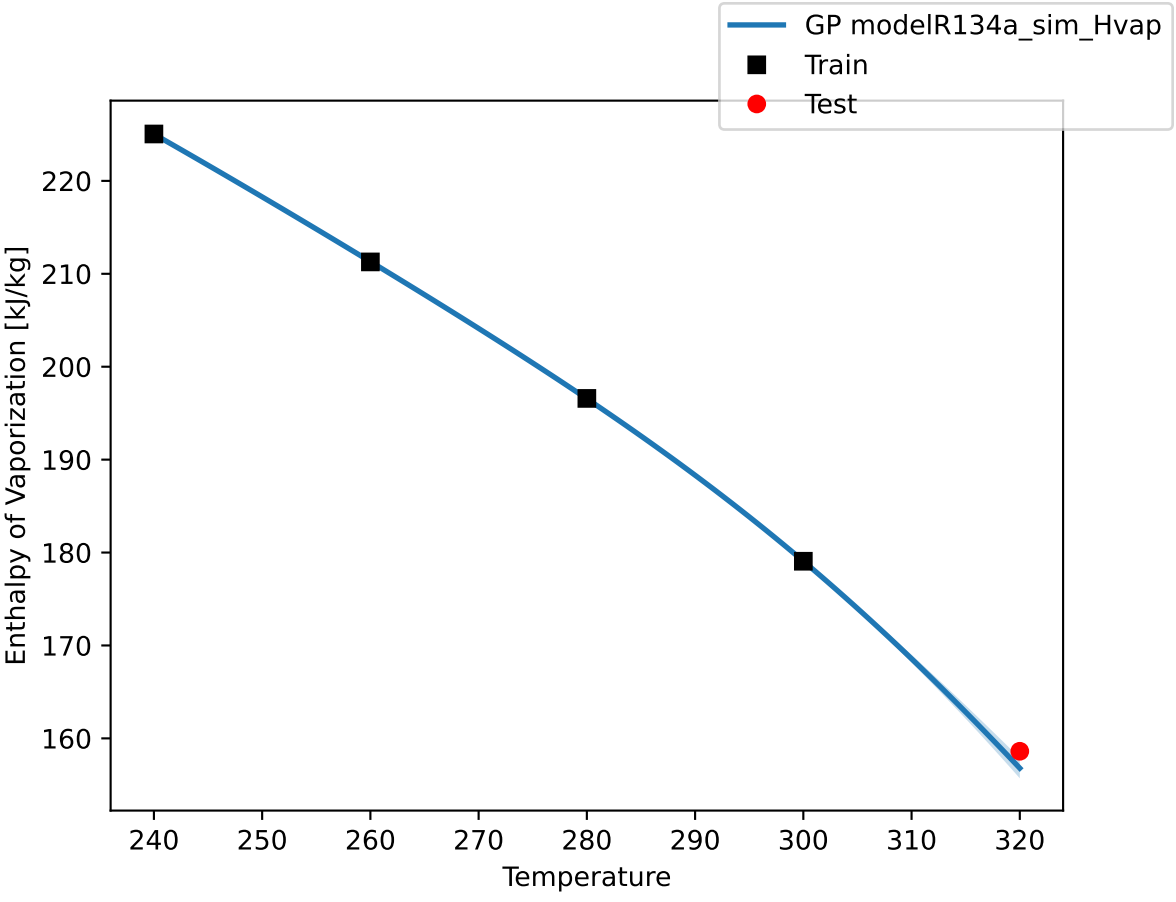
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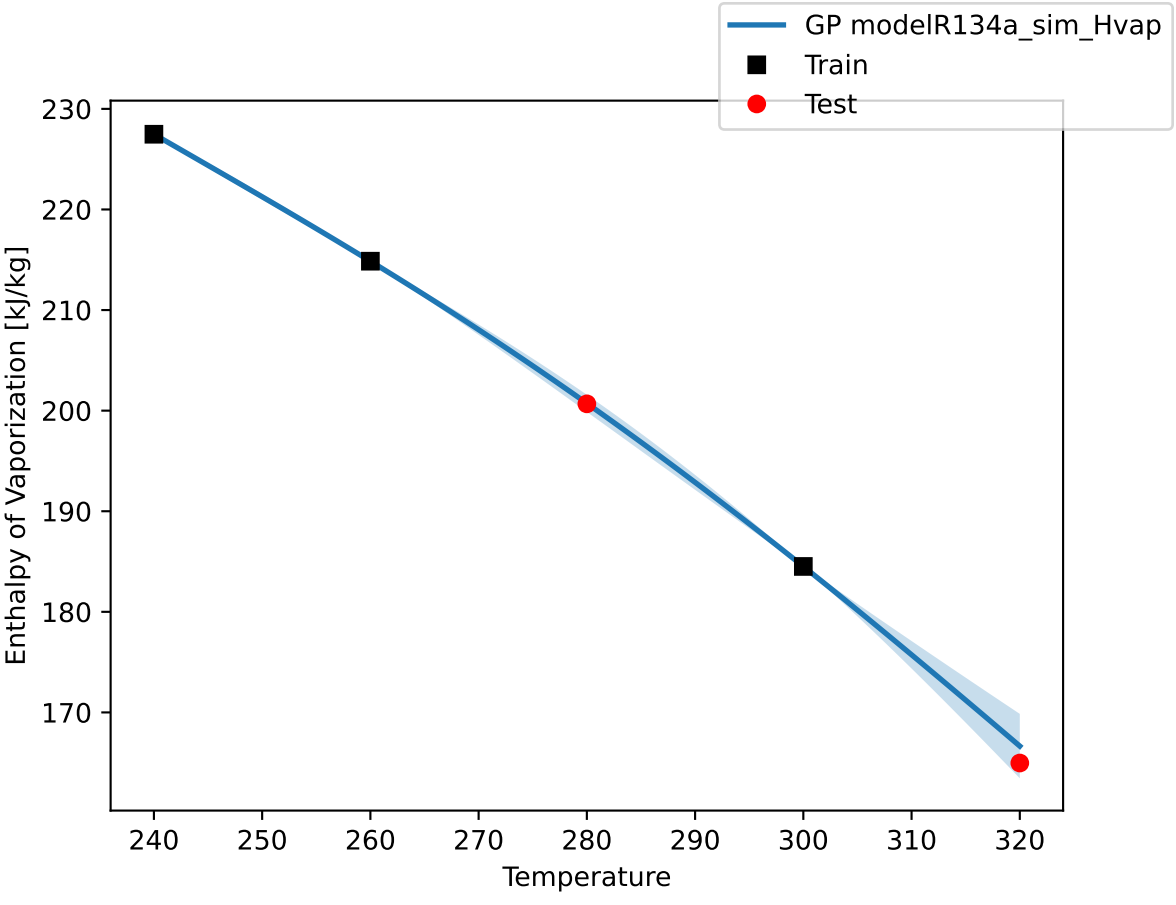
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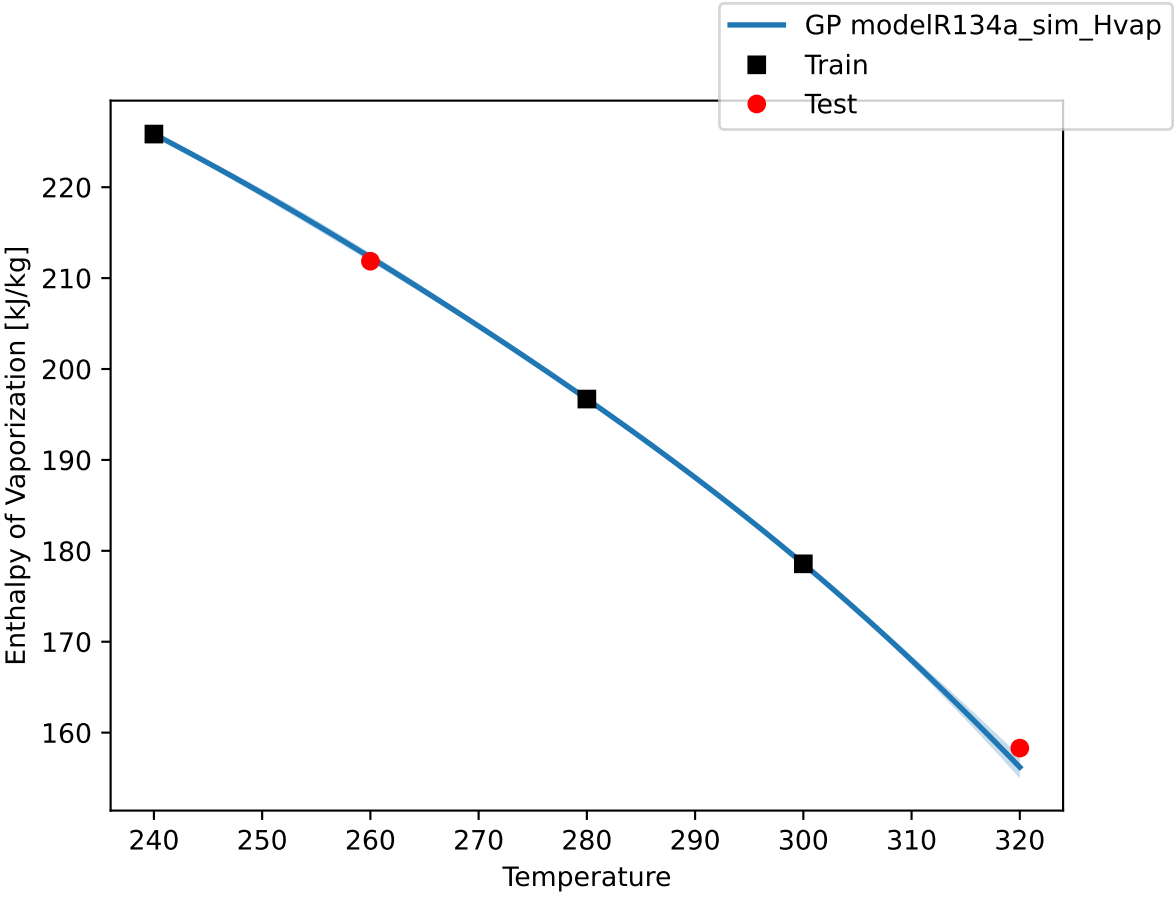
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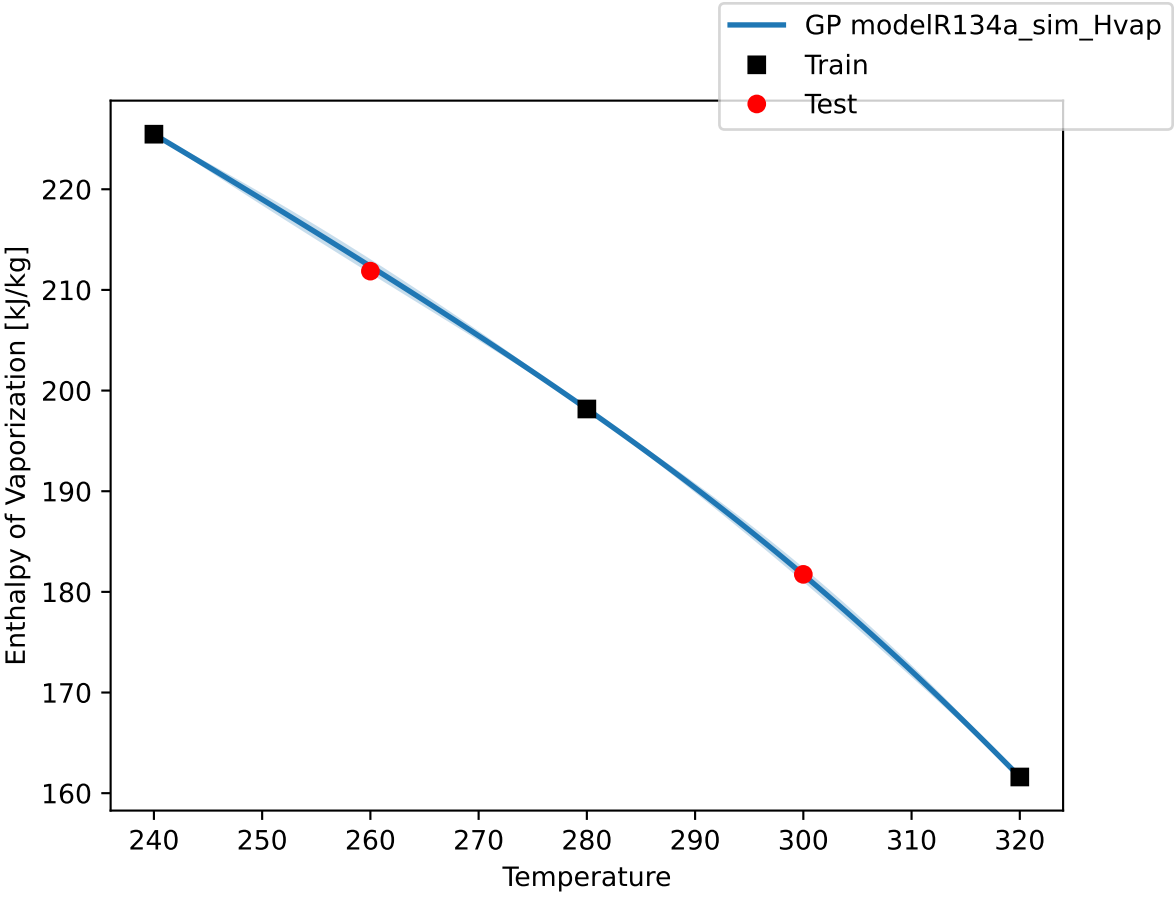
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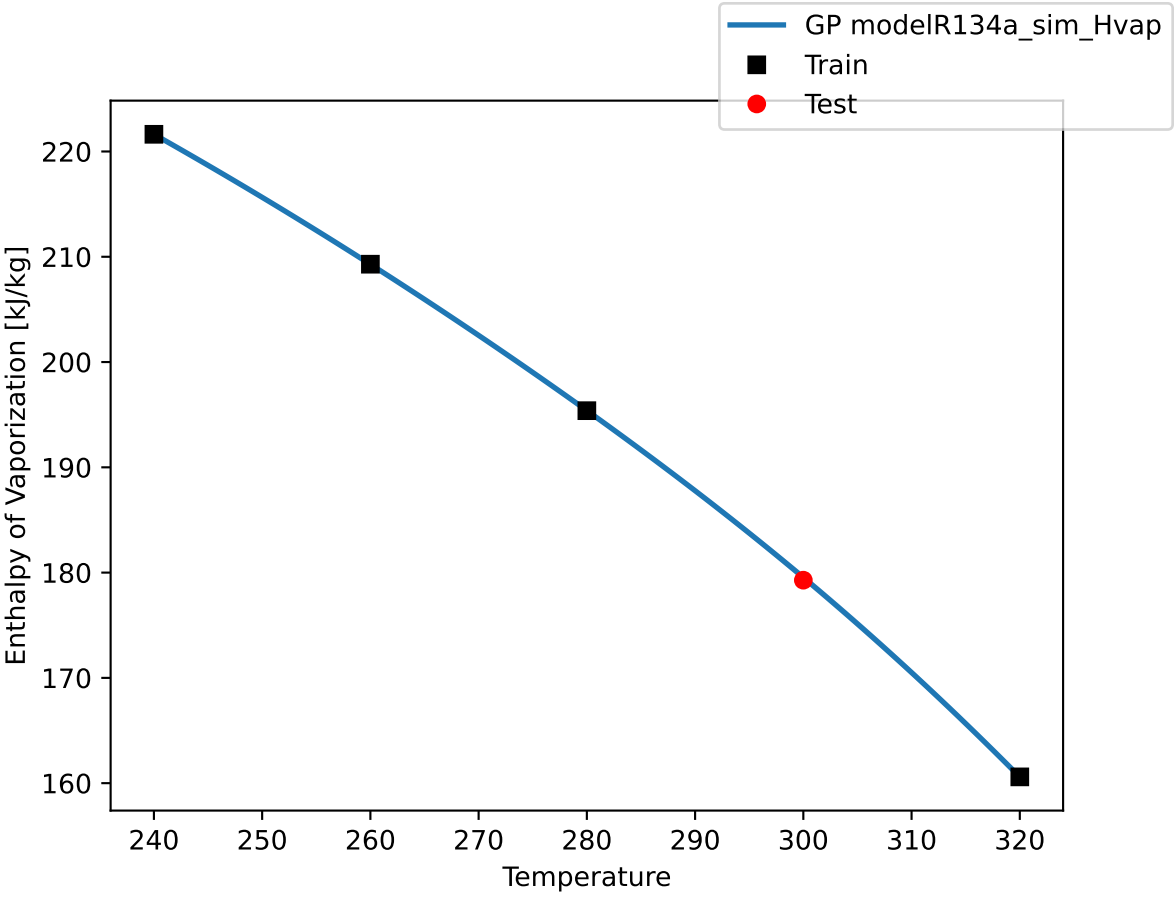
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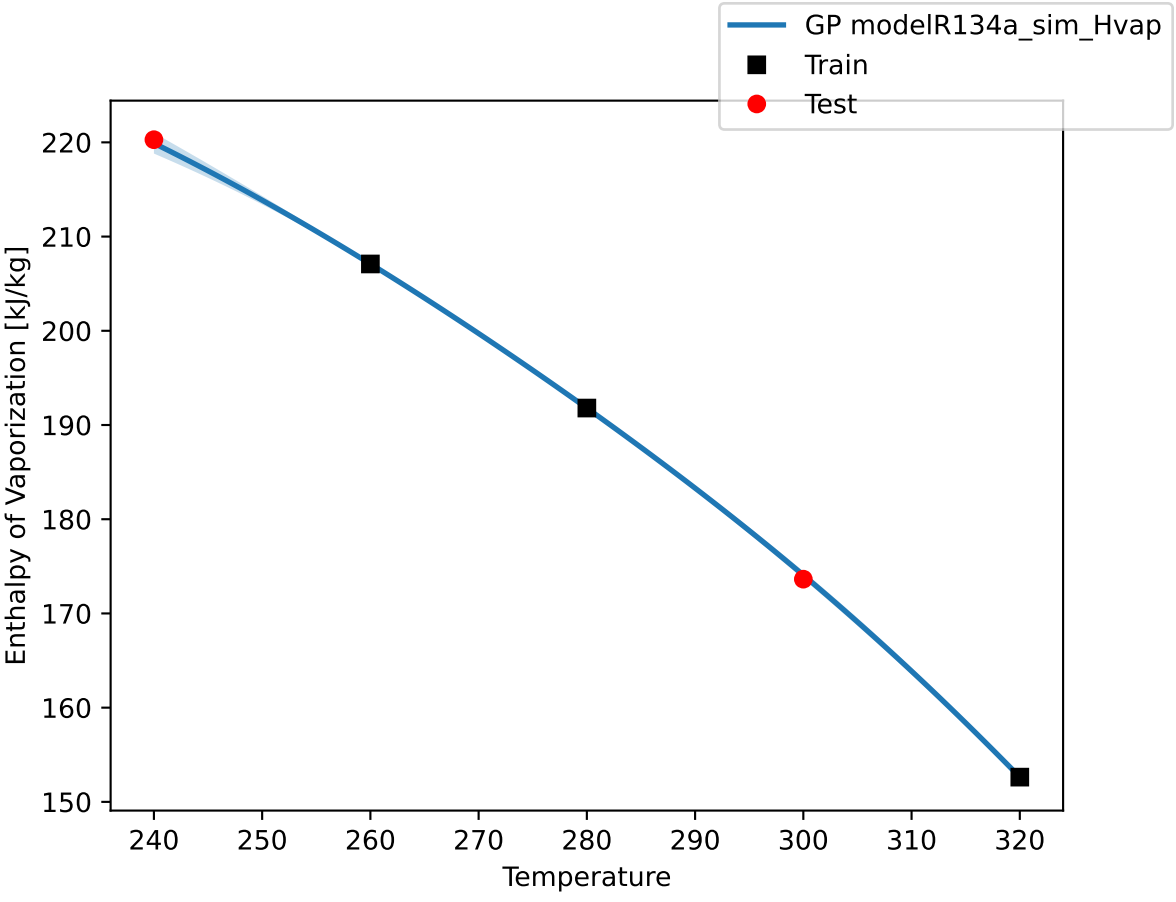
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