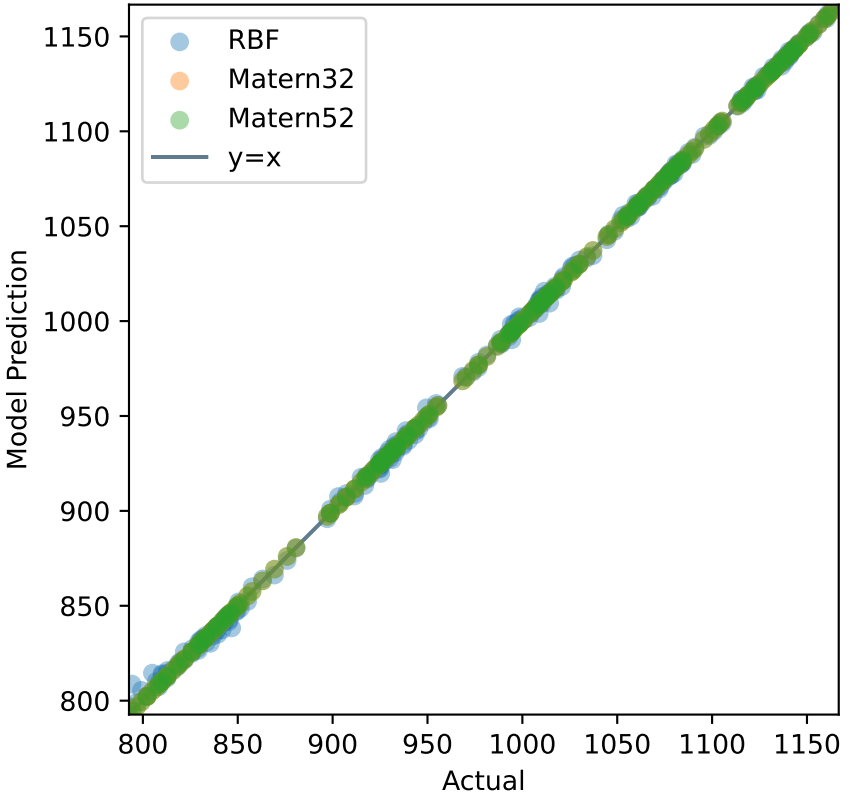
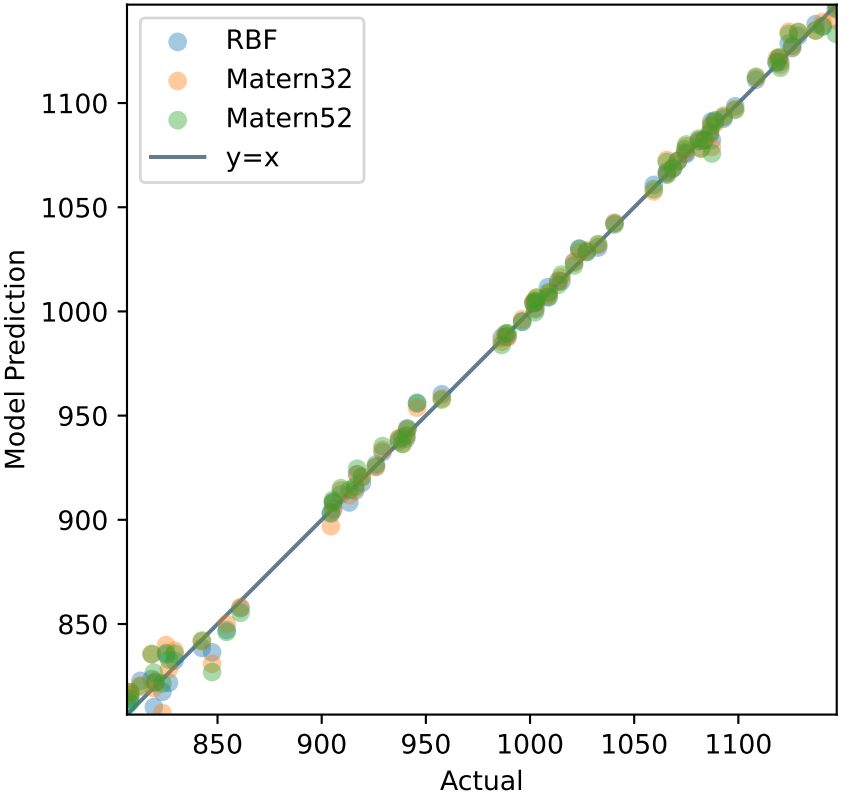
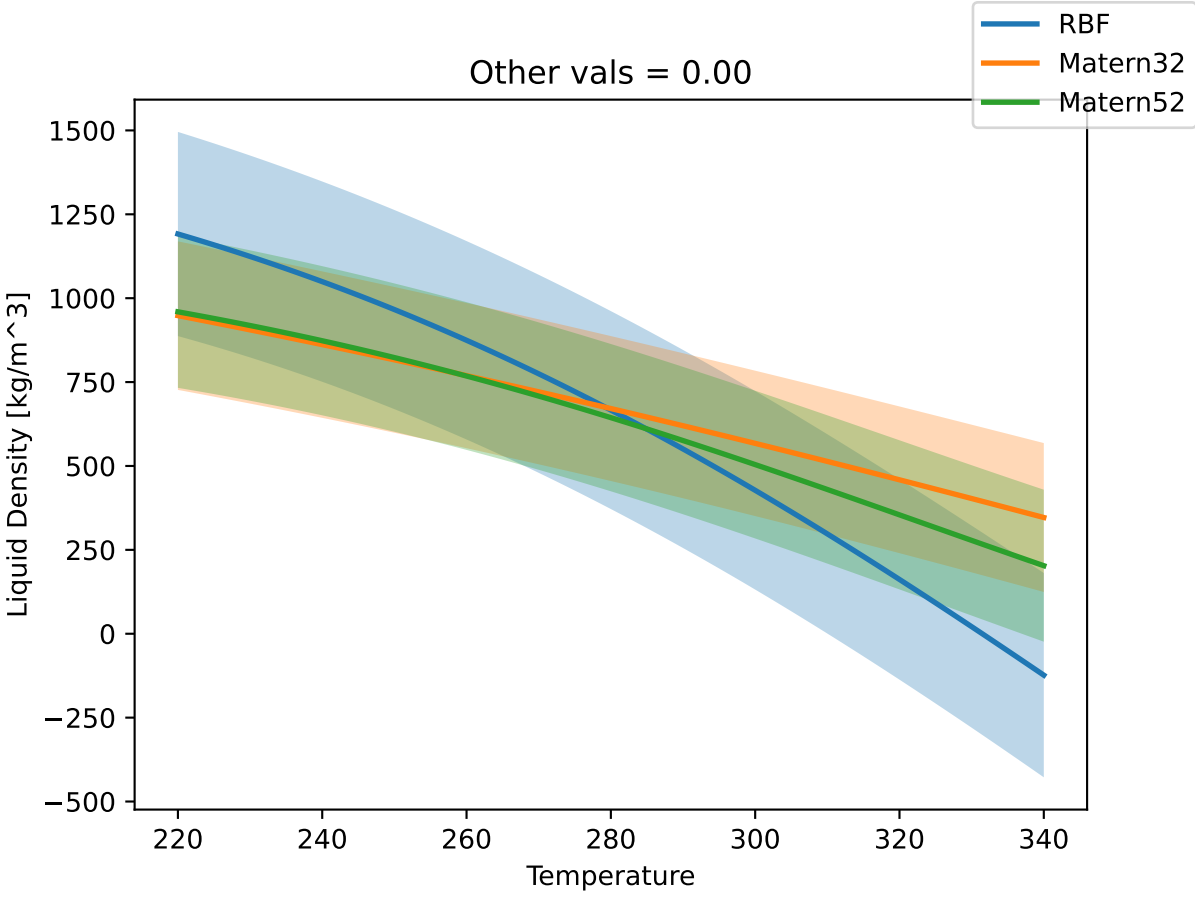
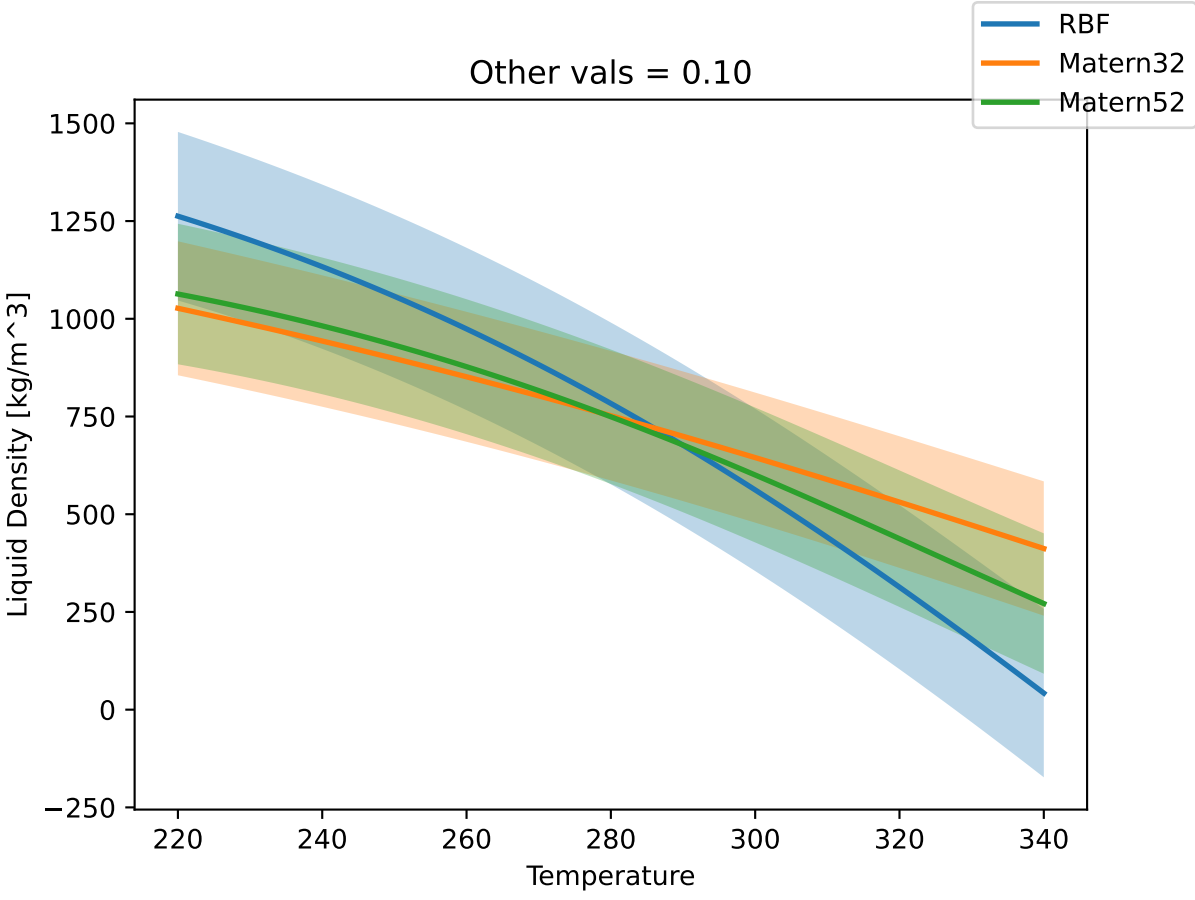
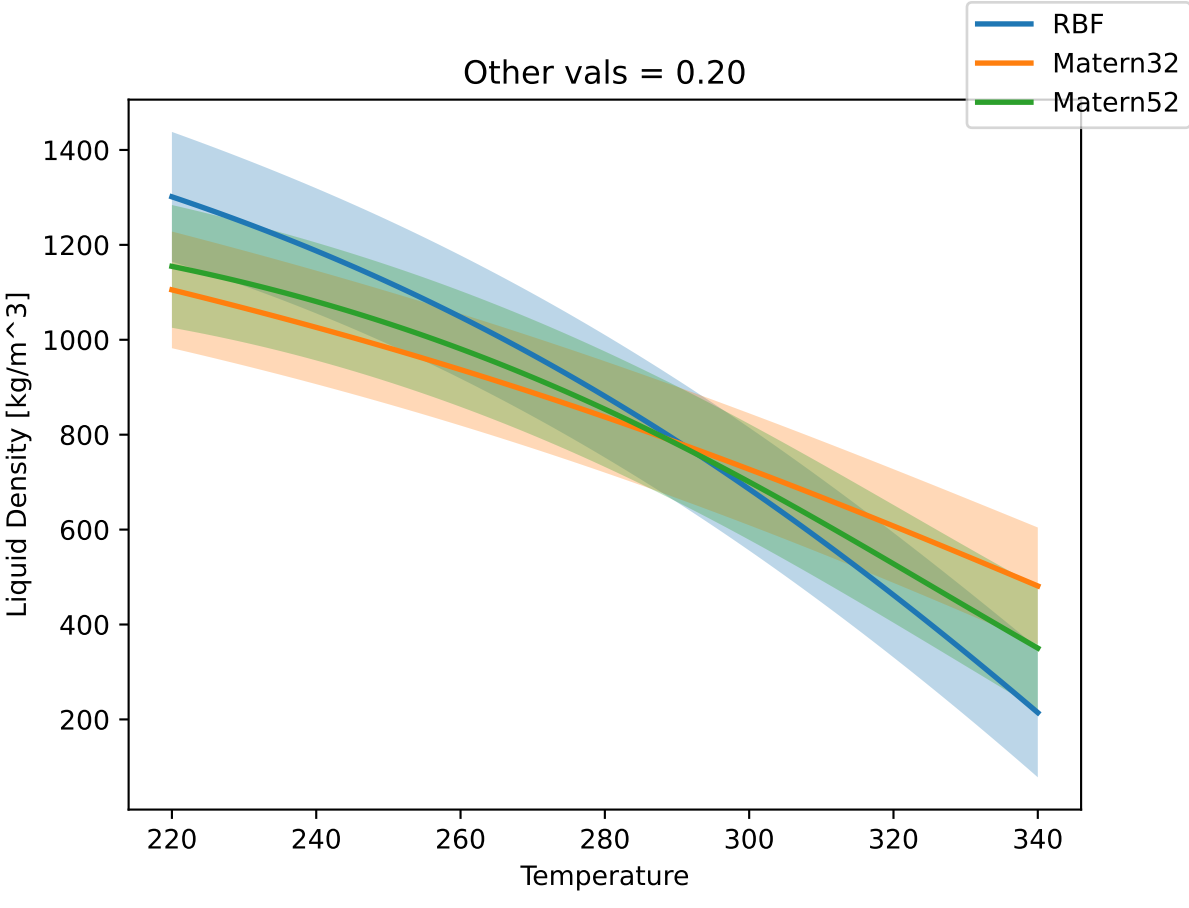
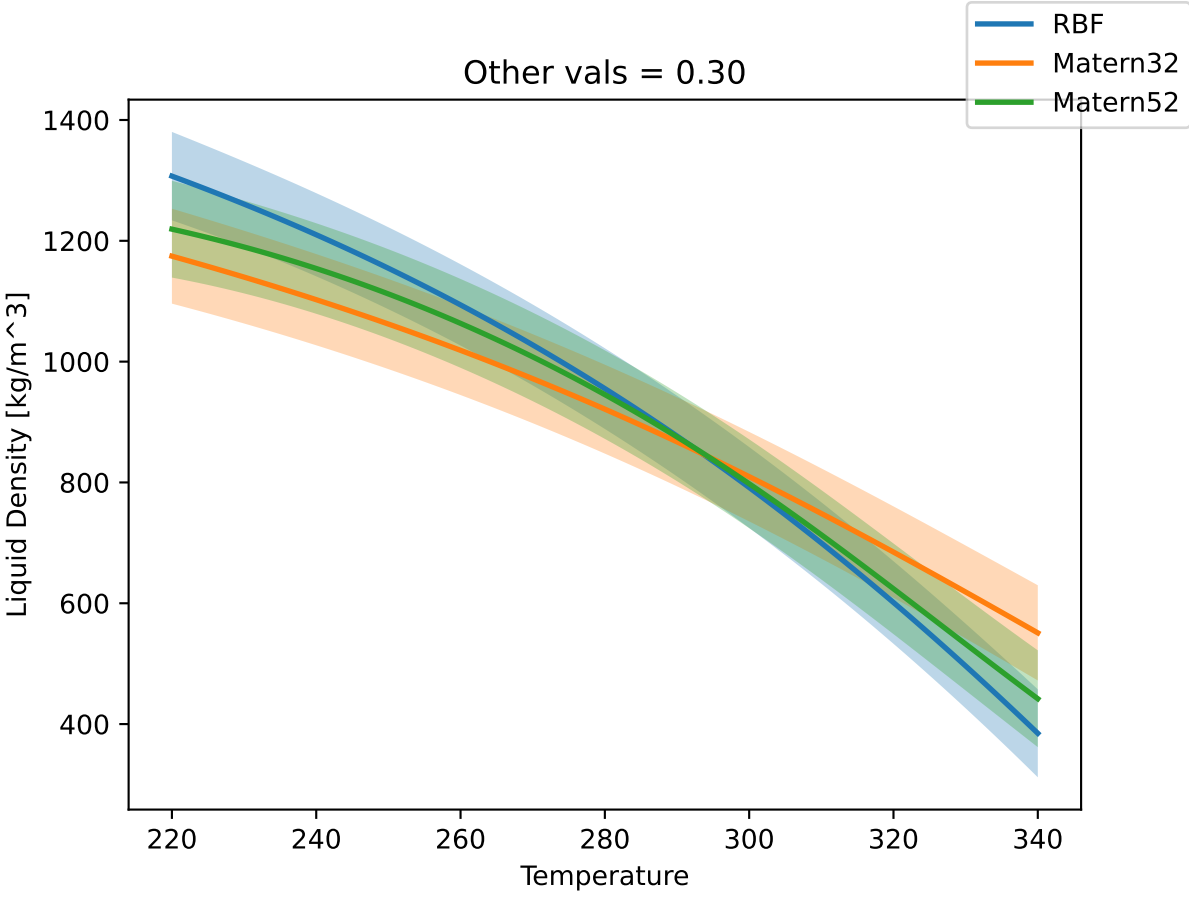

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
800
850
900
950
1000
1050
1100
1150

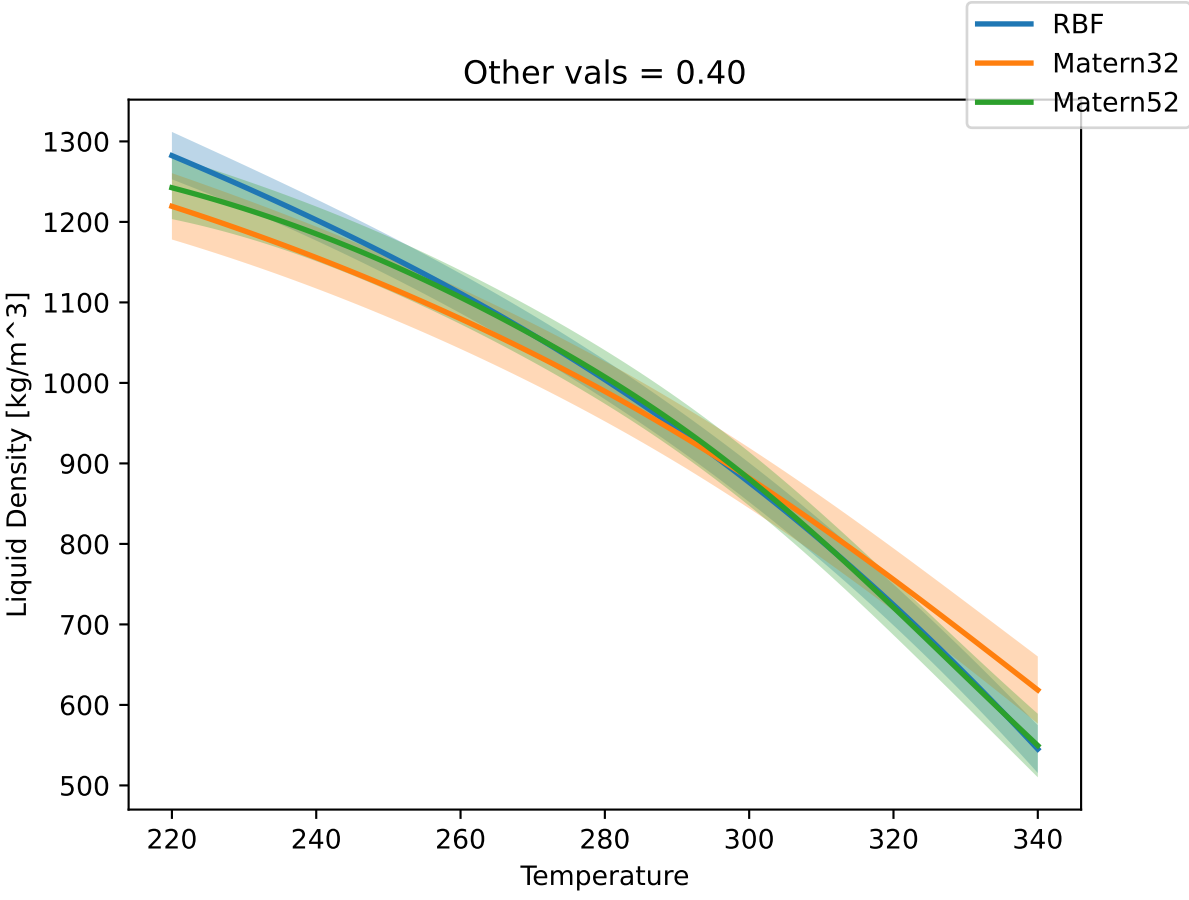

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
850
900
950
1000
1050
1100

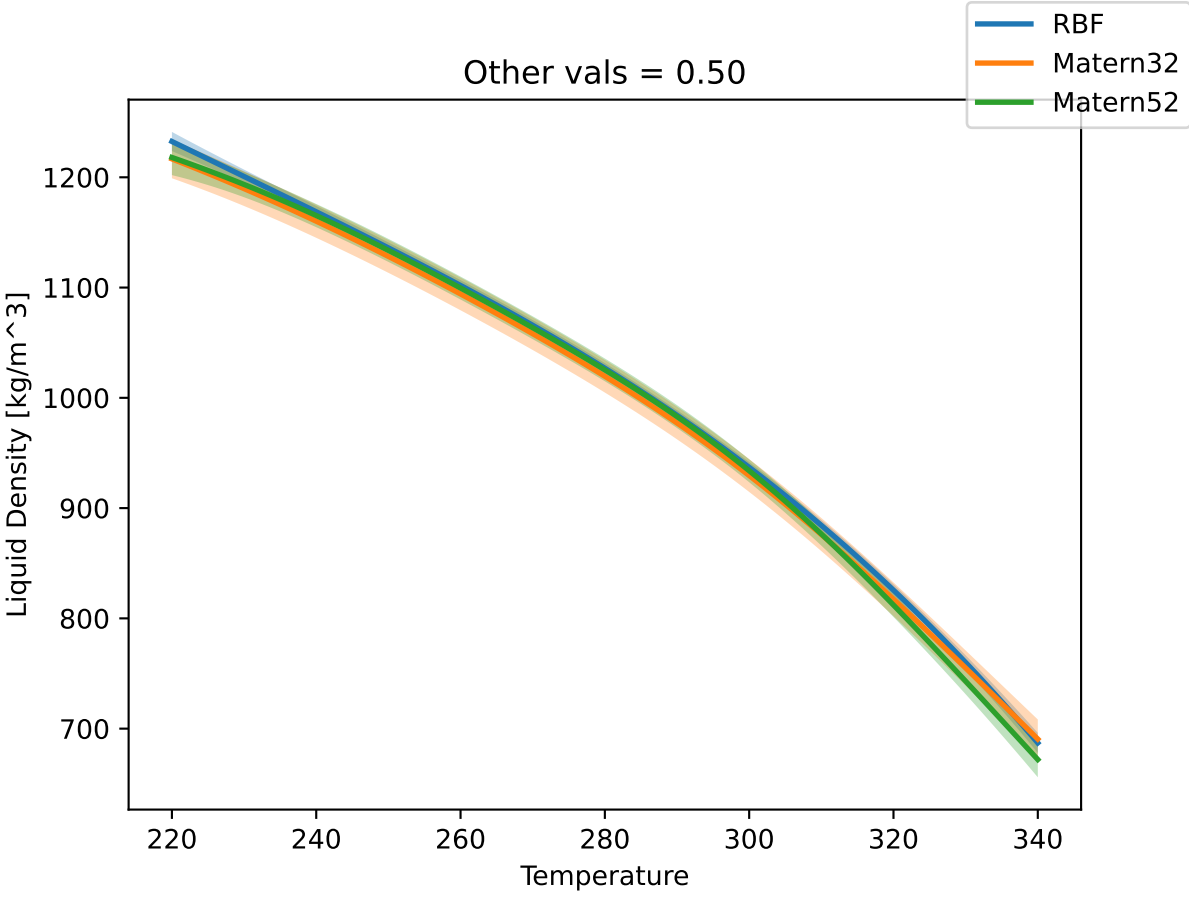

RBF
Matern32
Matern52
Other vals = 0.00
Liquid Density [kg/m^3]
1500
1250
1000
750
500
250
0
−250
−500
220
240
260
280
300
320
340
Temperature

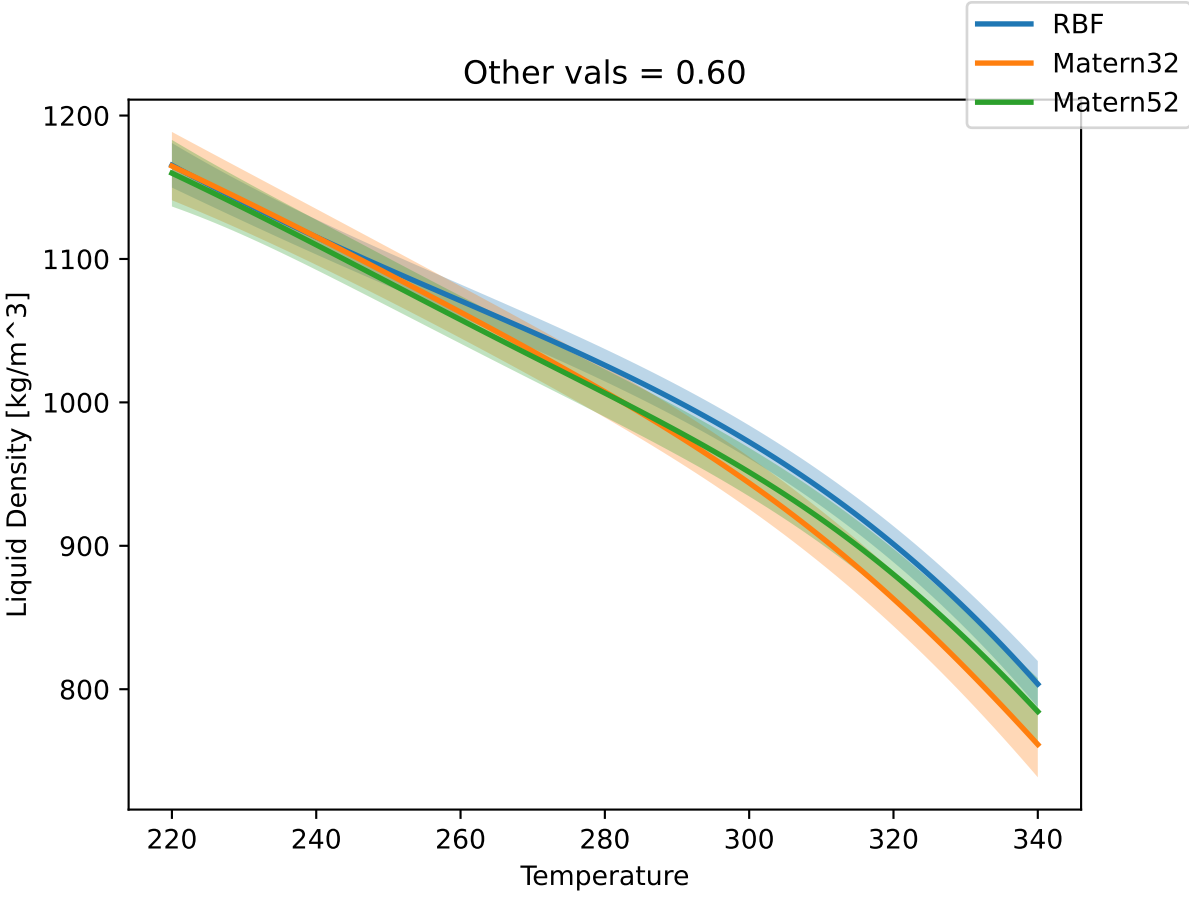

RBF
Matern32
Matern52
Other vals = 0.10
Liquid Density [kg/m^3]
Temperature
1500
1250
1000
750
500
250
0
−250
220
240
260
280
300
320
340

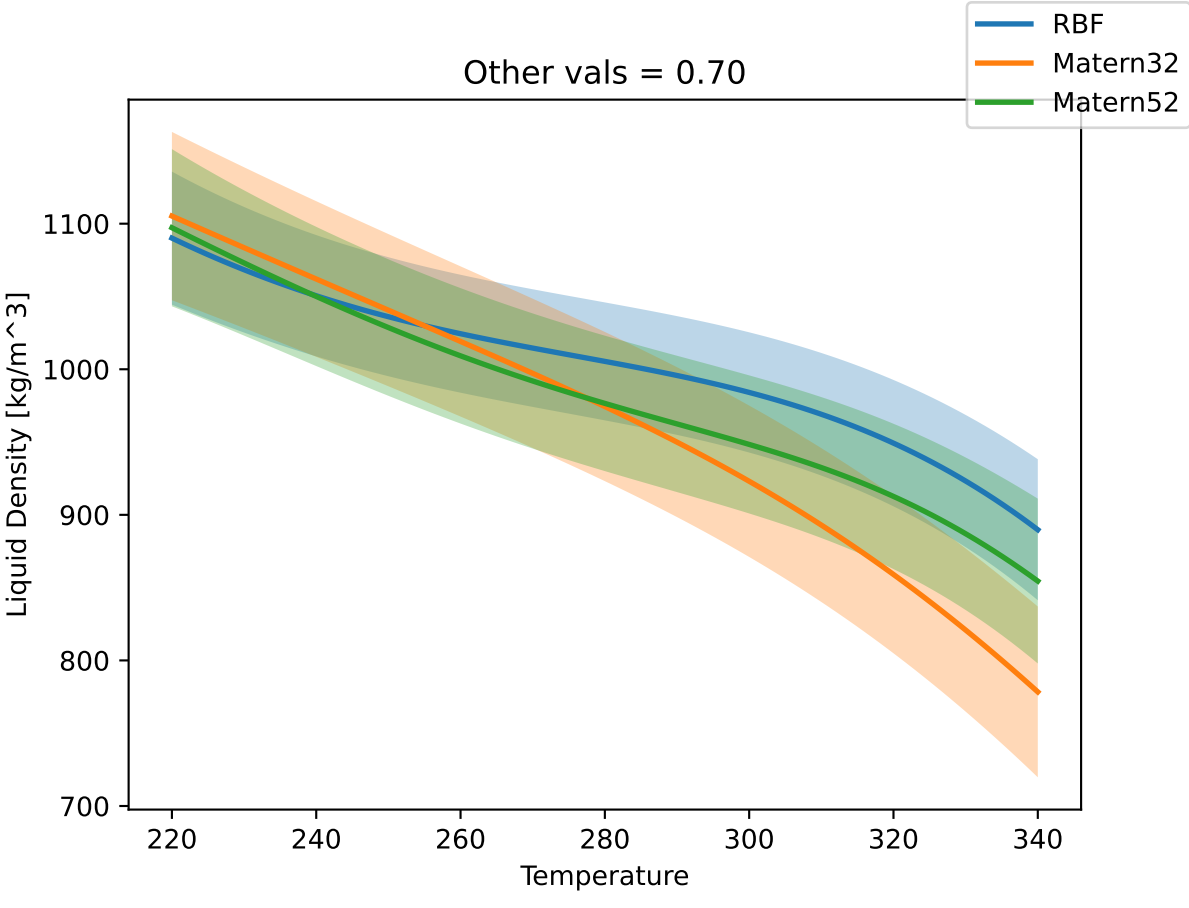

RBF
Matern32
Matern52
Other vals = 0.20
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
200
220
240
260
280
300
320
340
Temperature

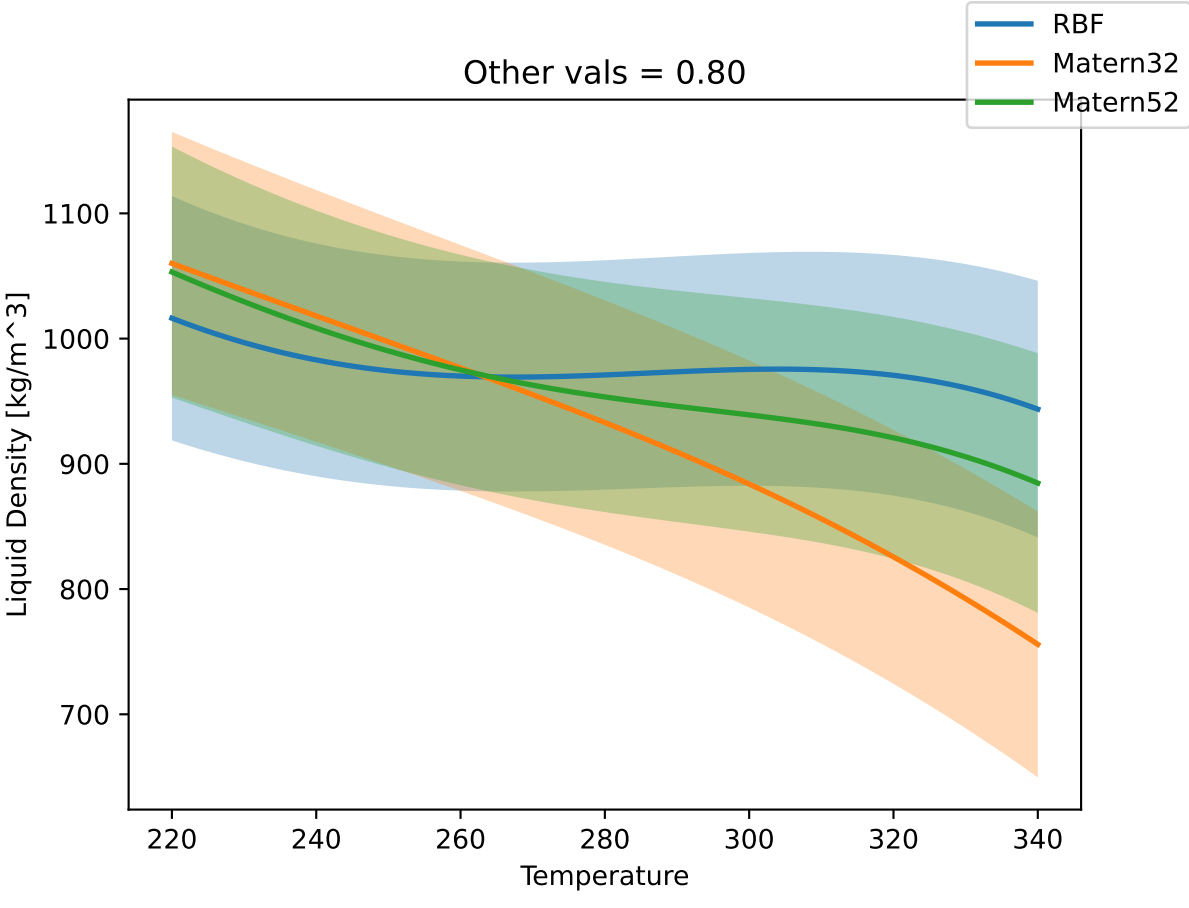

RBF
Matern32
Matern52
Other vals = 0.30
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
220
240
260
280
300
320
340
Temperature

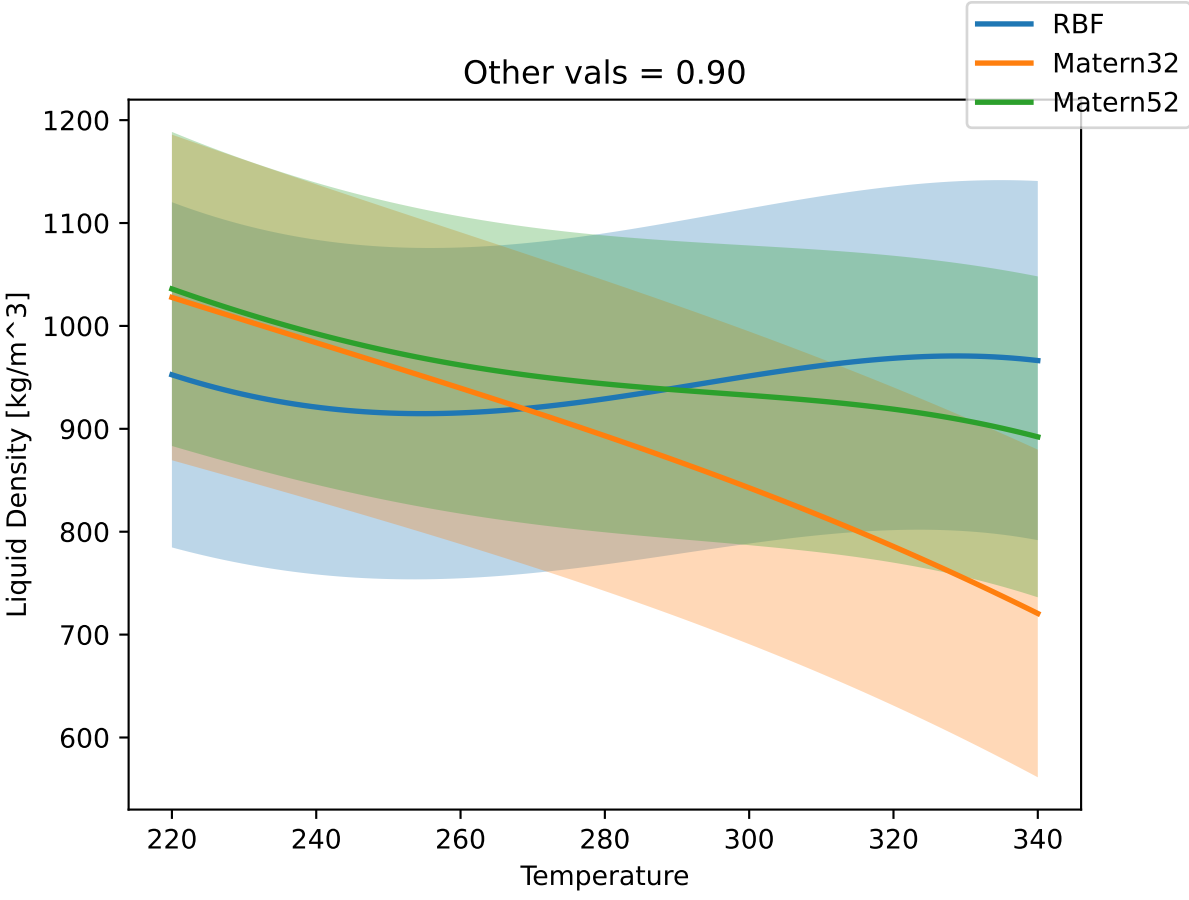

RBF
Matern32
Matern52
Other vals = 0.40
Liquid Density [kg/m^3]
1300
1200
1100
1000
900
800
700
600
500
220
240
260
280
300
320
340
Temperature

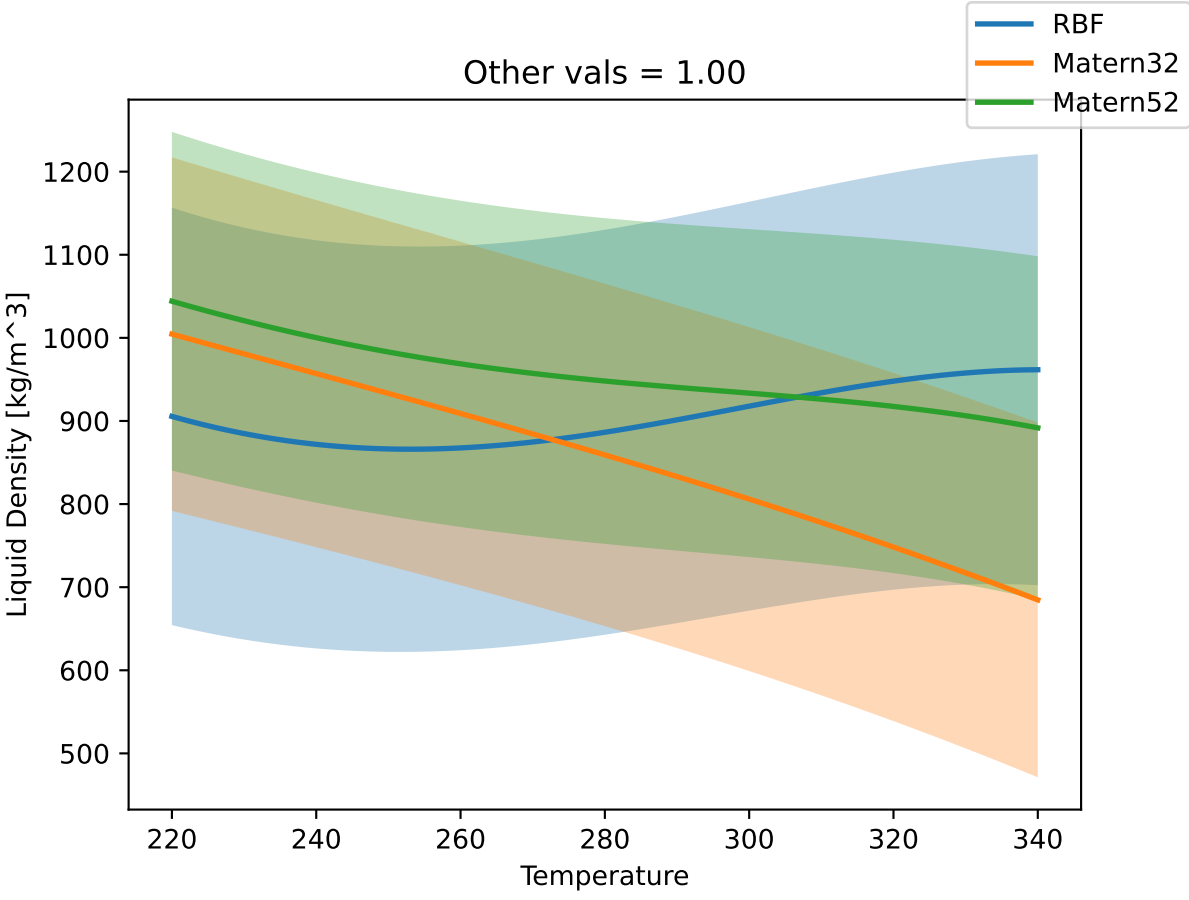

RBF
Matern32
Matern52
Other vals = 0.50
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
220
240
260
280
300
320
340
Temperature

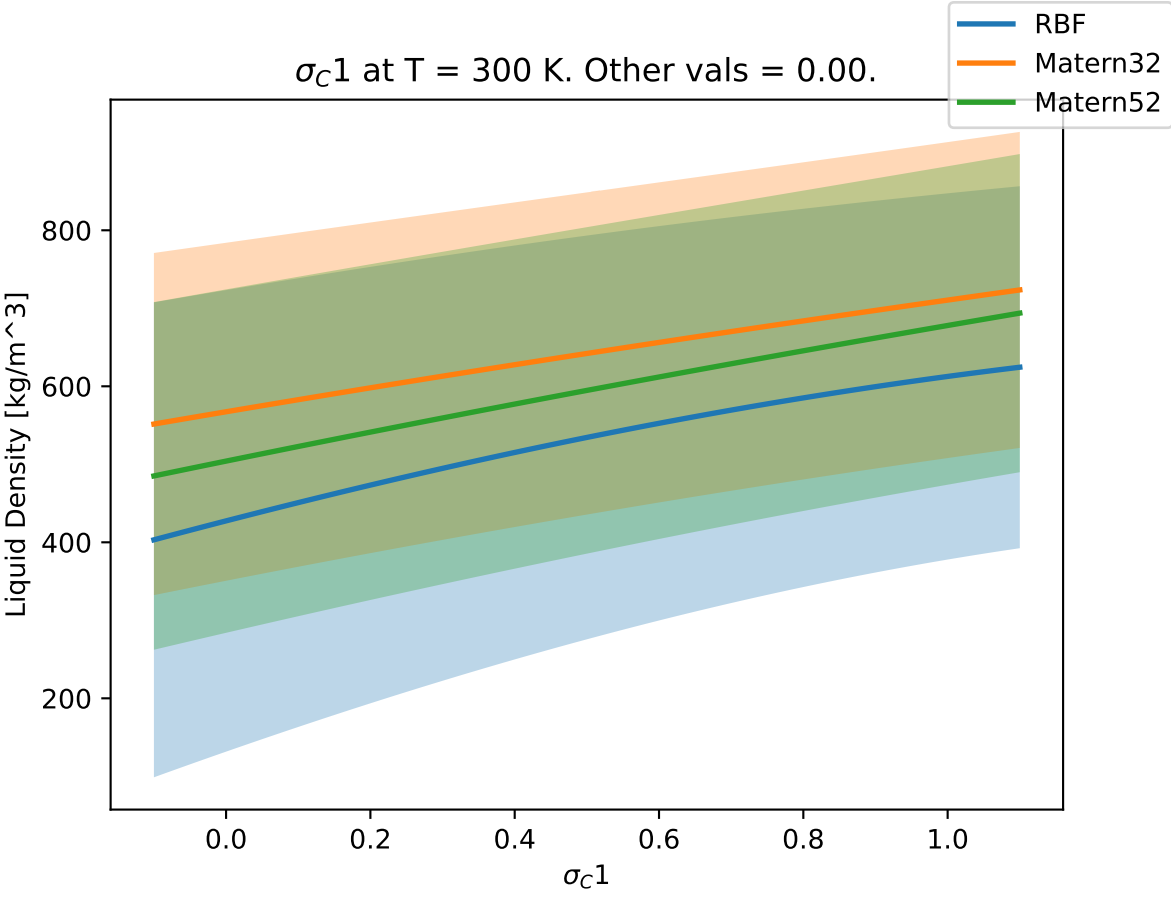

RBF
Matern32
Matern52
Other vals = 0.60
1200
1100
1000
900
800
Liquid Density [kg/m^3]
220
240
260
280
300
320
340
Temperature

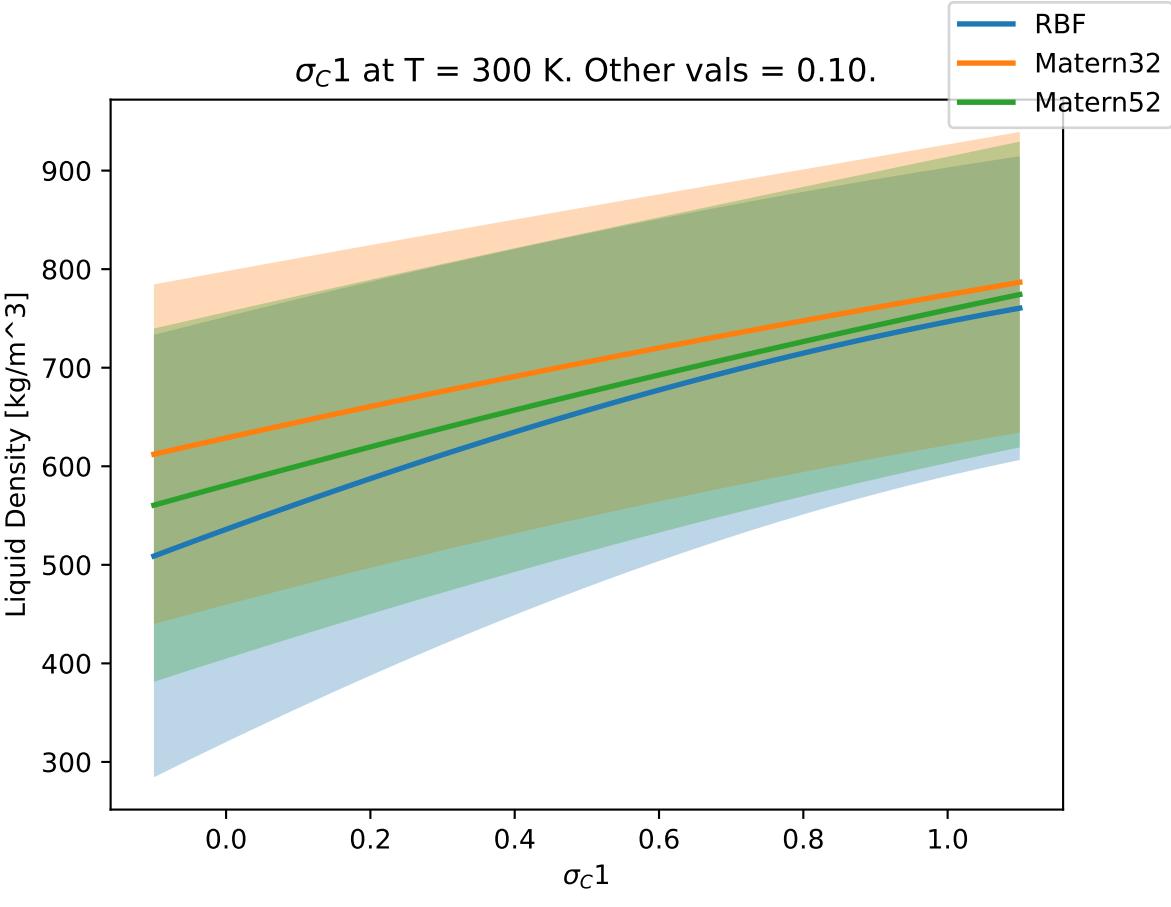

RBF
Matern32
Matern52
Other vals = 0.70
Liquid Density [kg/m^3]
1100
1000
900
800
700
220
240
260
280
300
320
340
Temperature

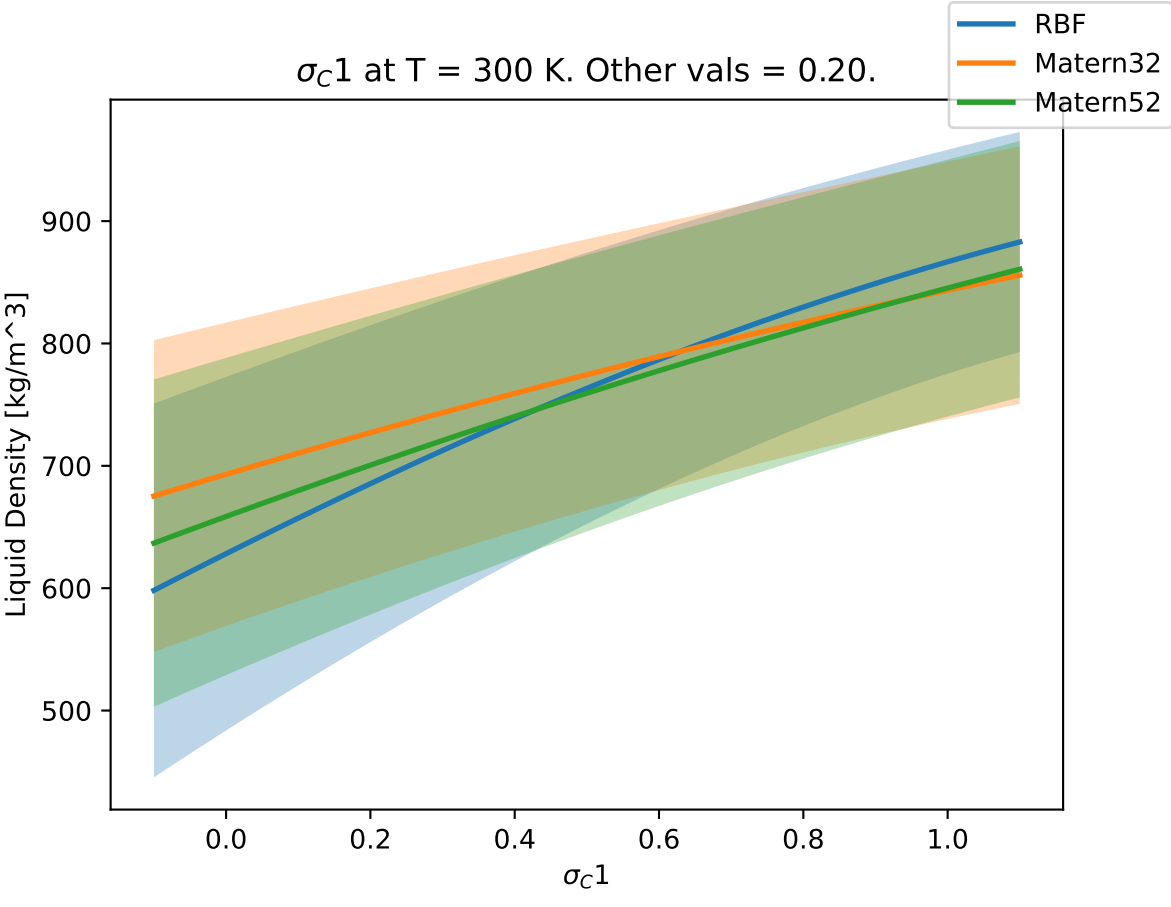

RBF
Matern32
Matern52
Other vals = 0.80
Liquid Density [kg/m^3]
1100
1000
900
800
700
220
240
260
280
300
320
340
Temperature

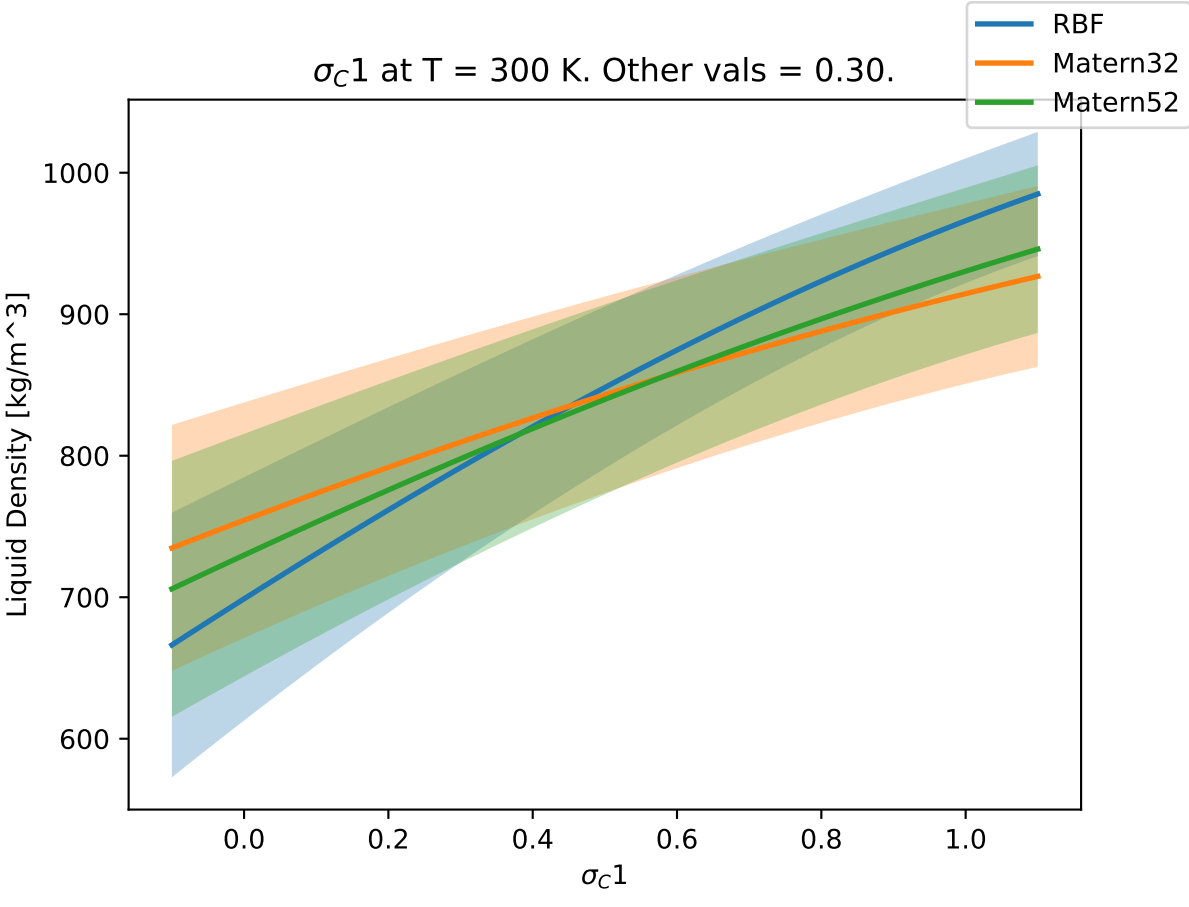

RBF
Matern32
Matern52
Other vals = 0.90
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
220
240
260
280
300
320
340
Temperature

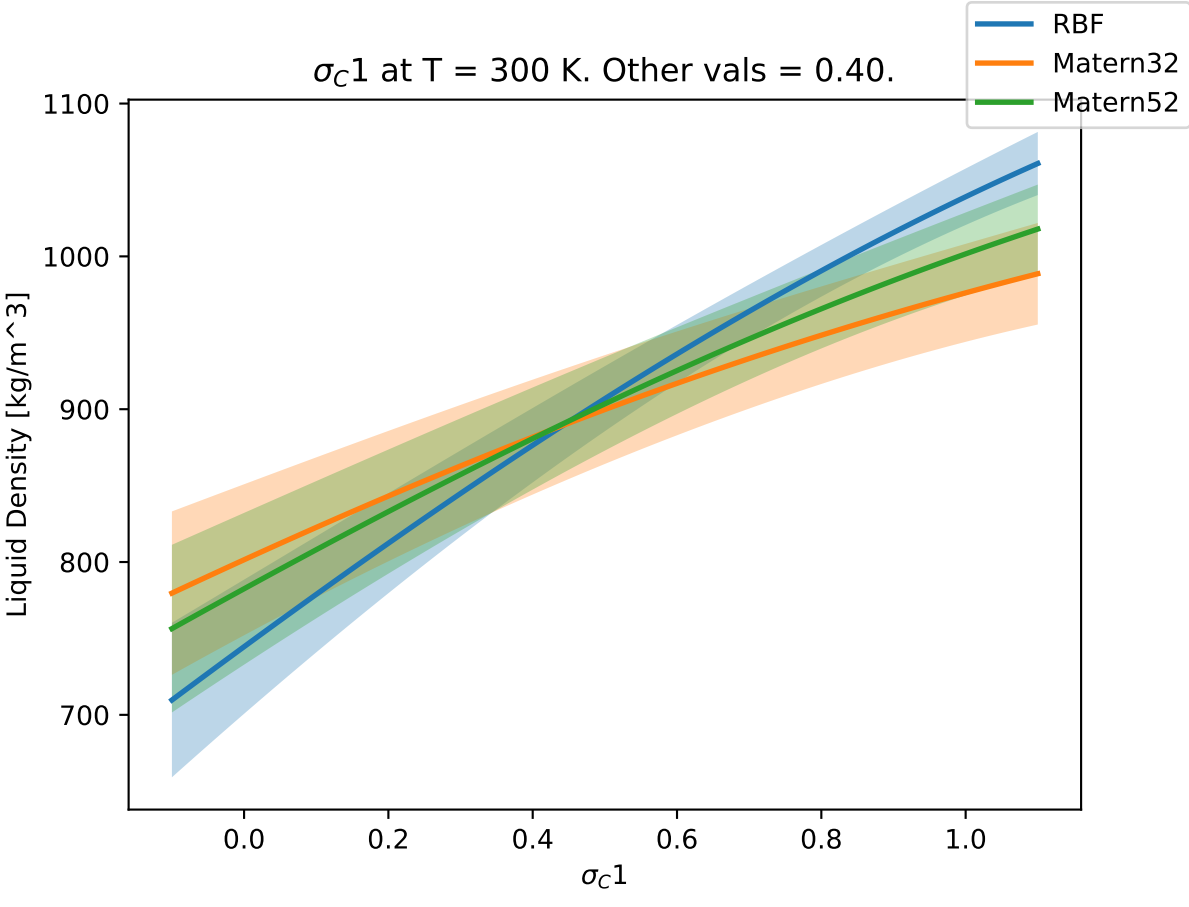

RBF
Matern32
Matern52
Other vals = 1.00
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
220
240
260
280
300
320
340
Temperature

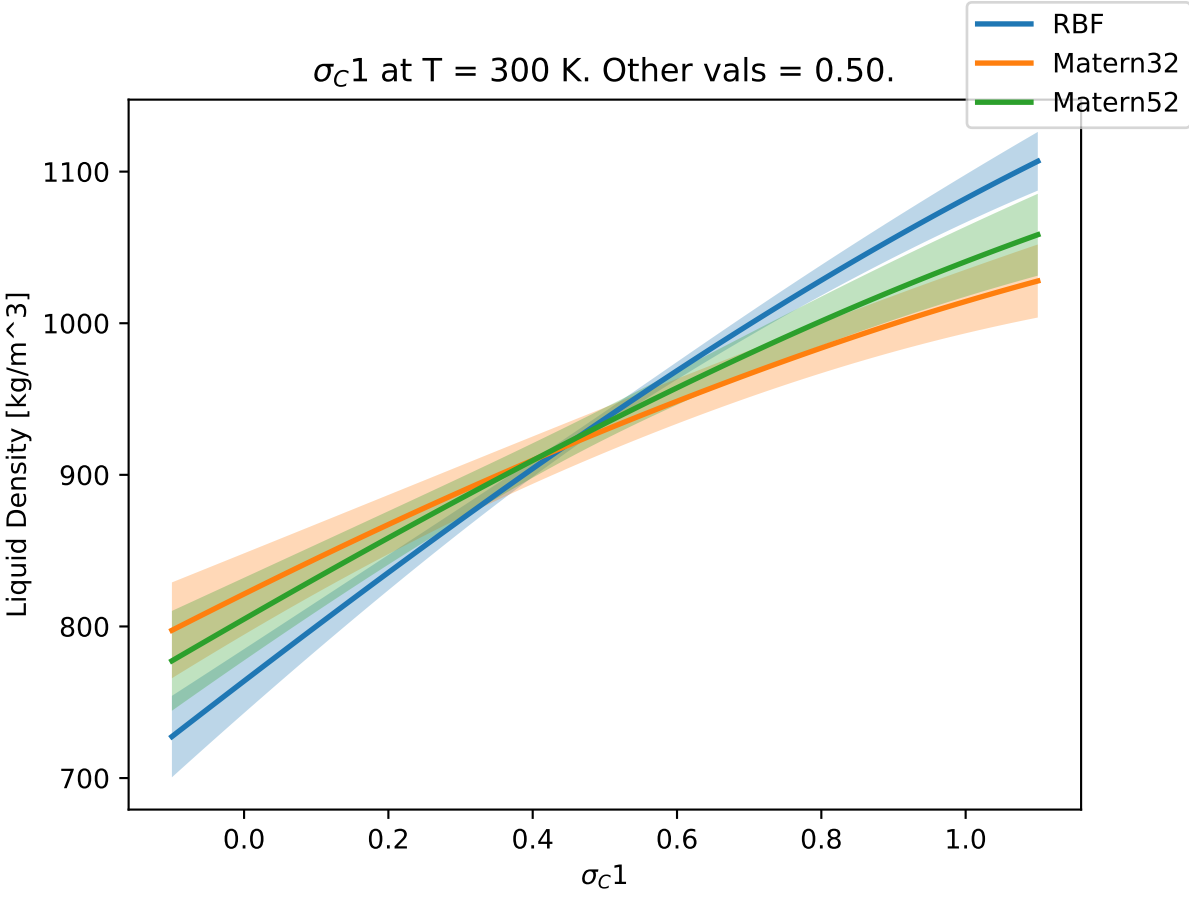

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

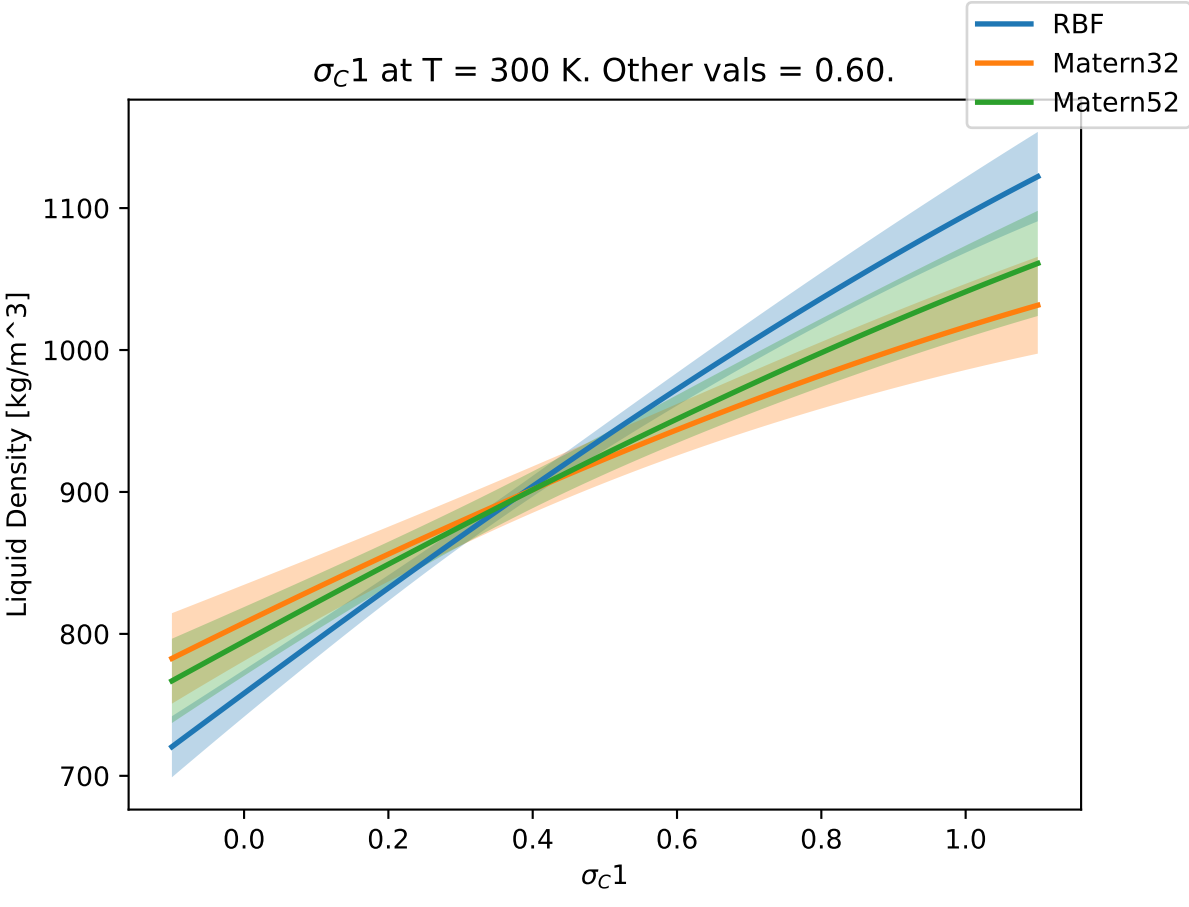

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
900
800
700
600
500
400
300
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

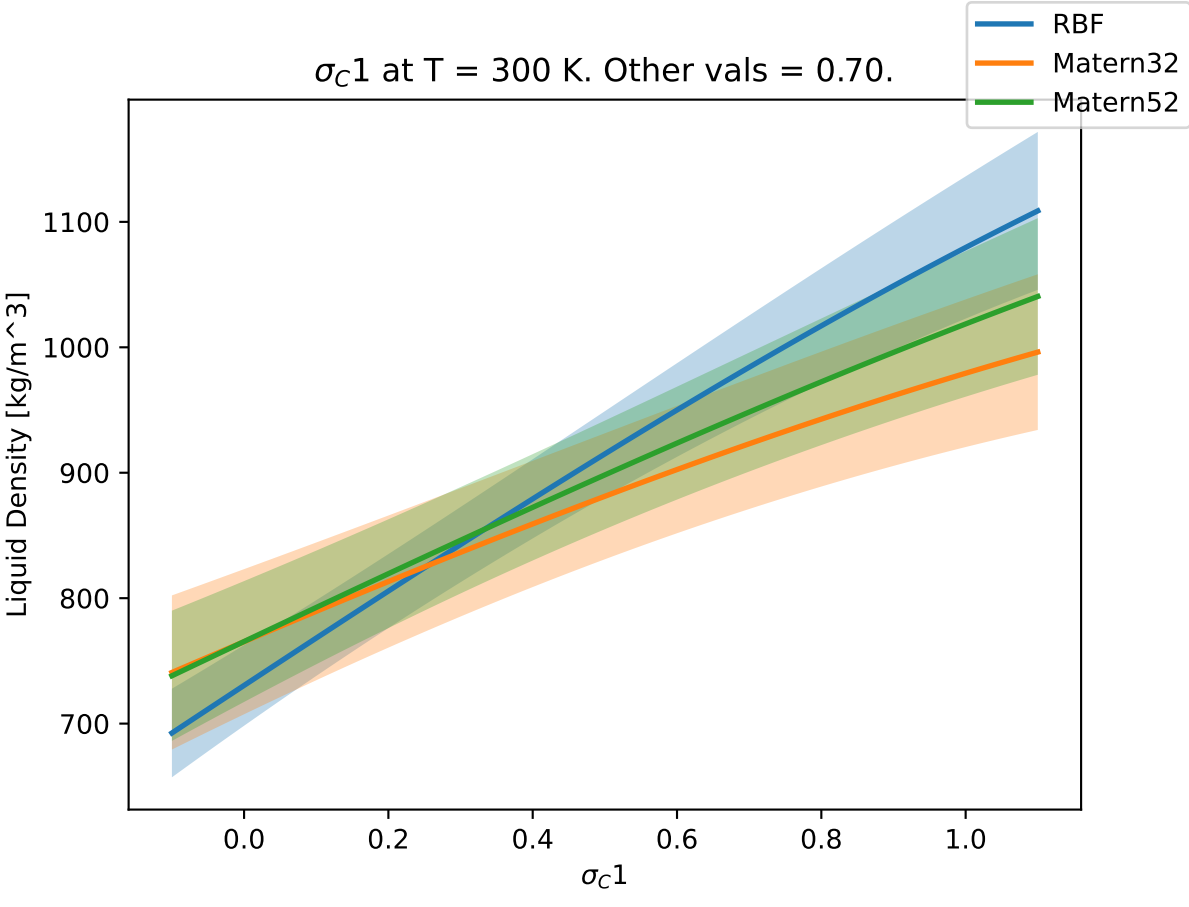

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

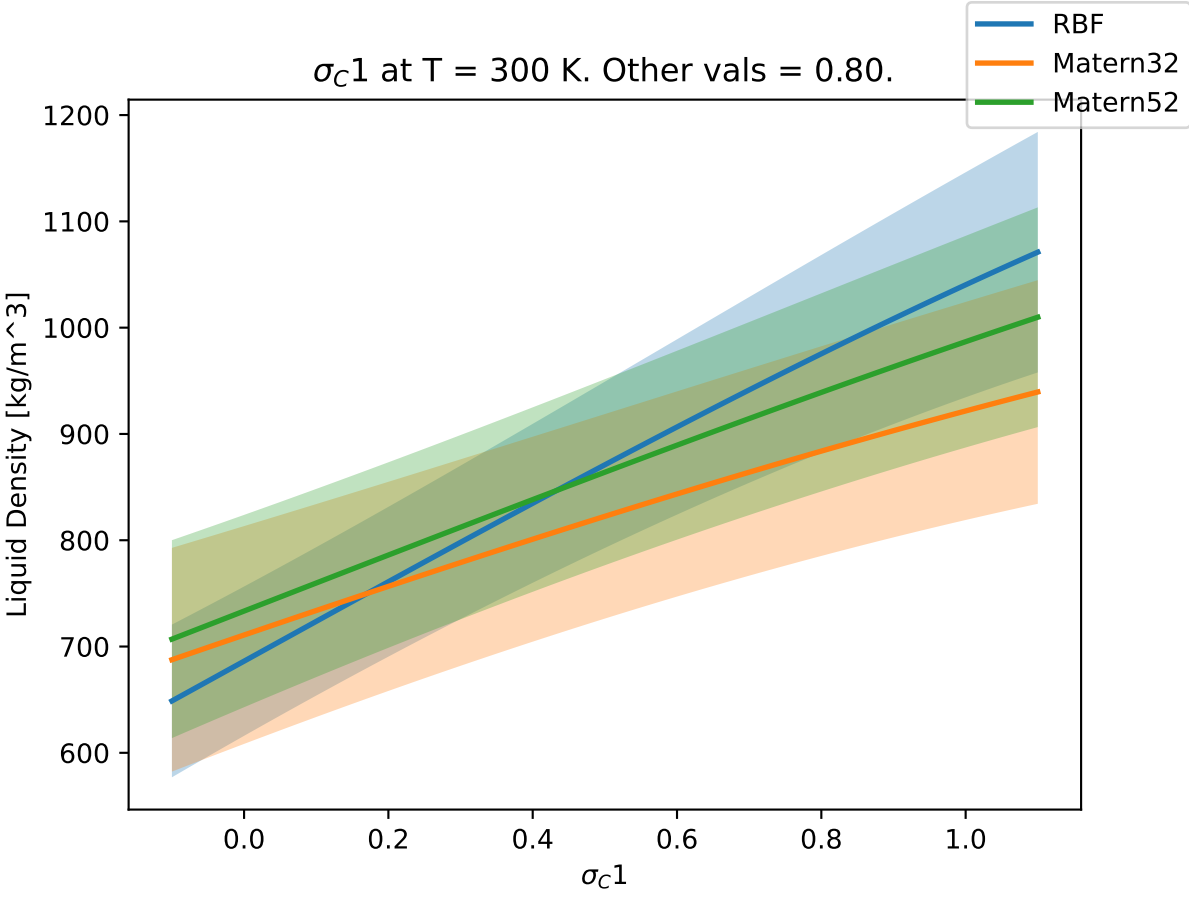

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

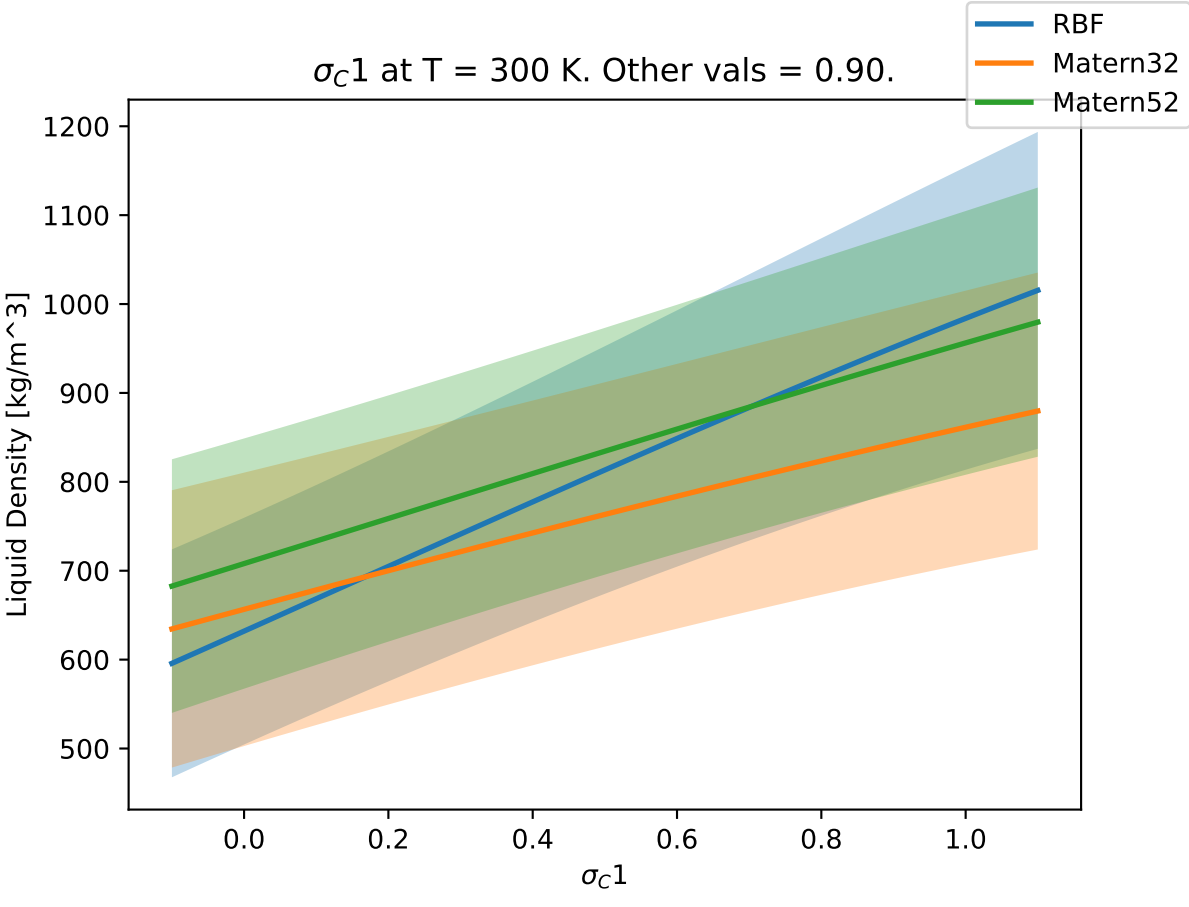

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.40.
1100
1000
900
800
700
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

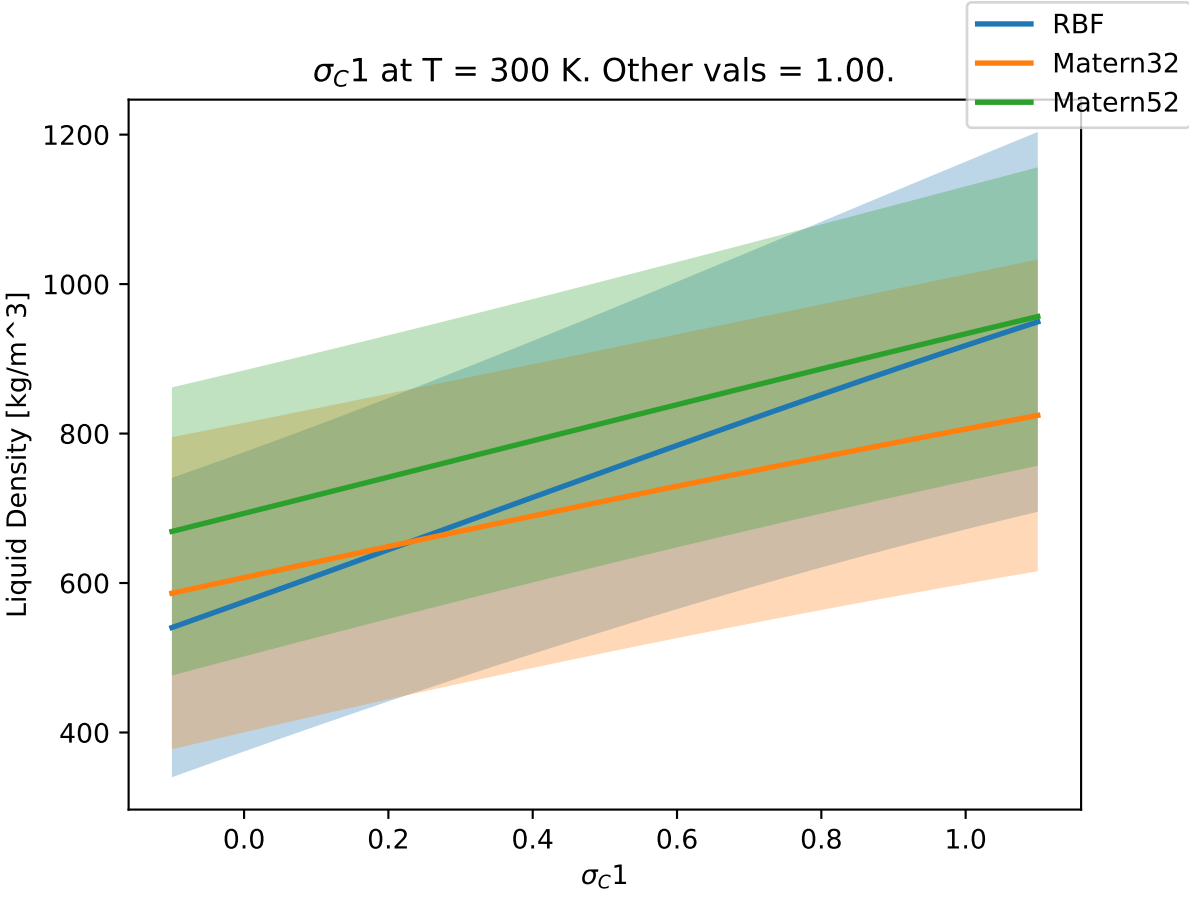

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

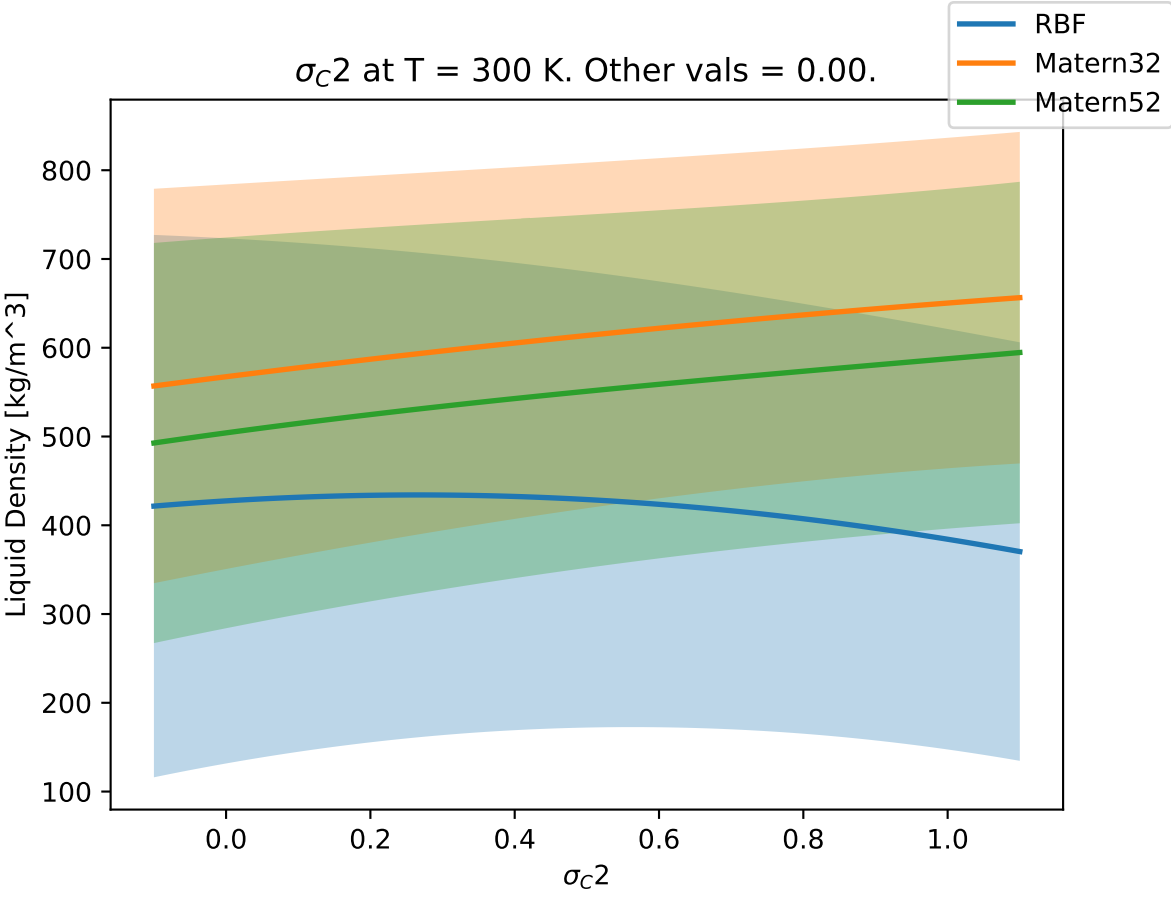

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

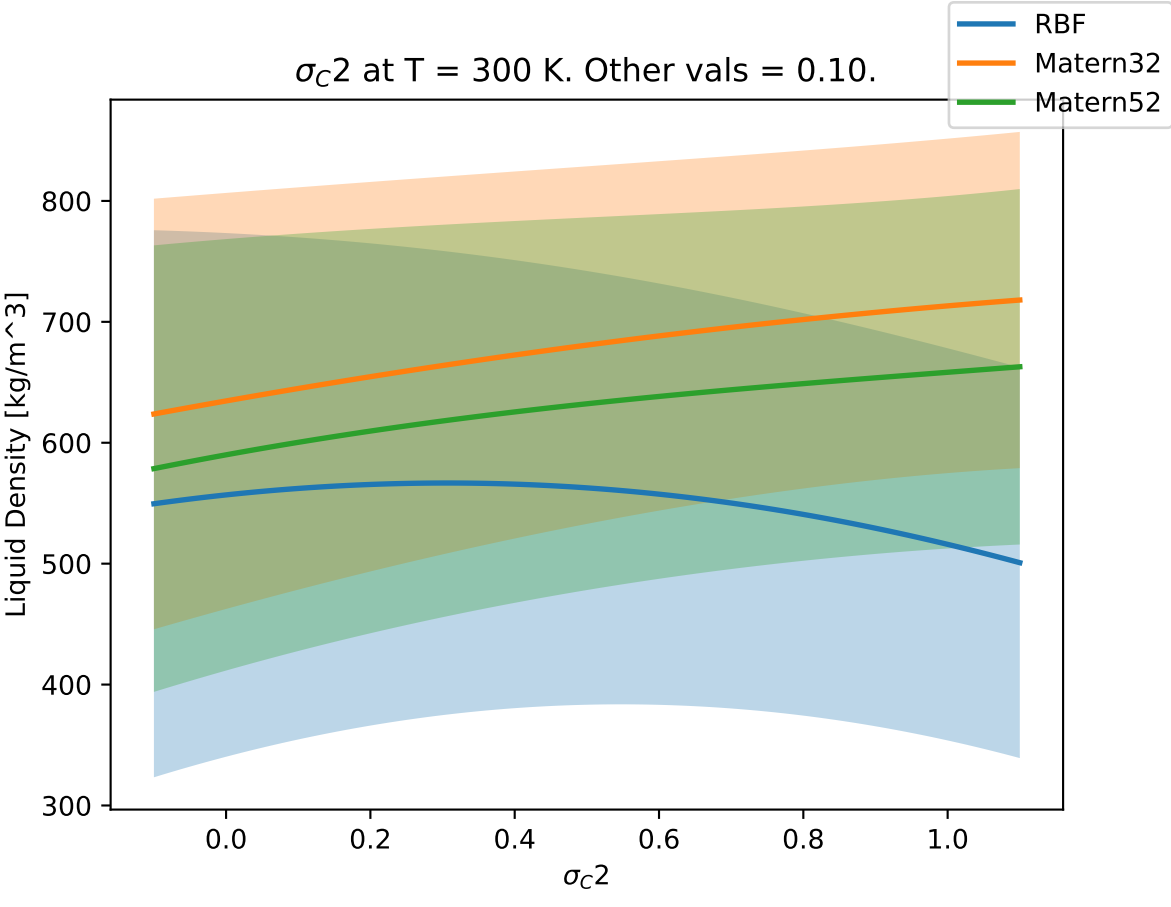

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

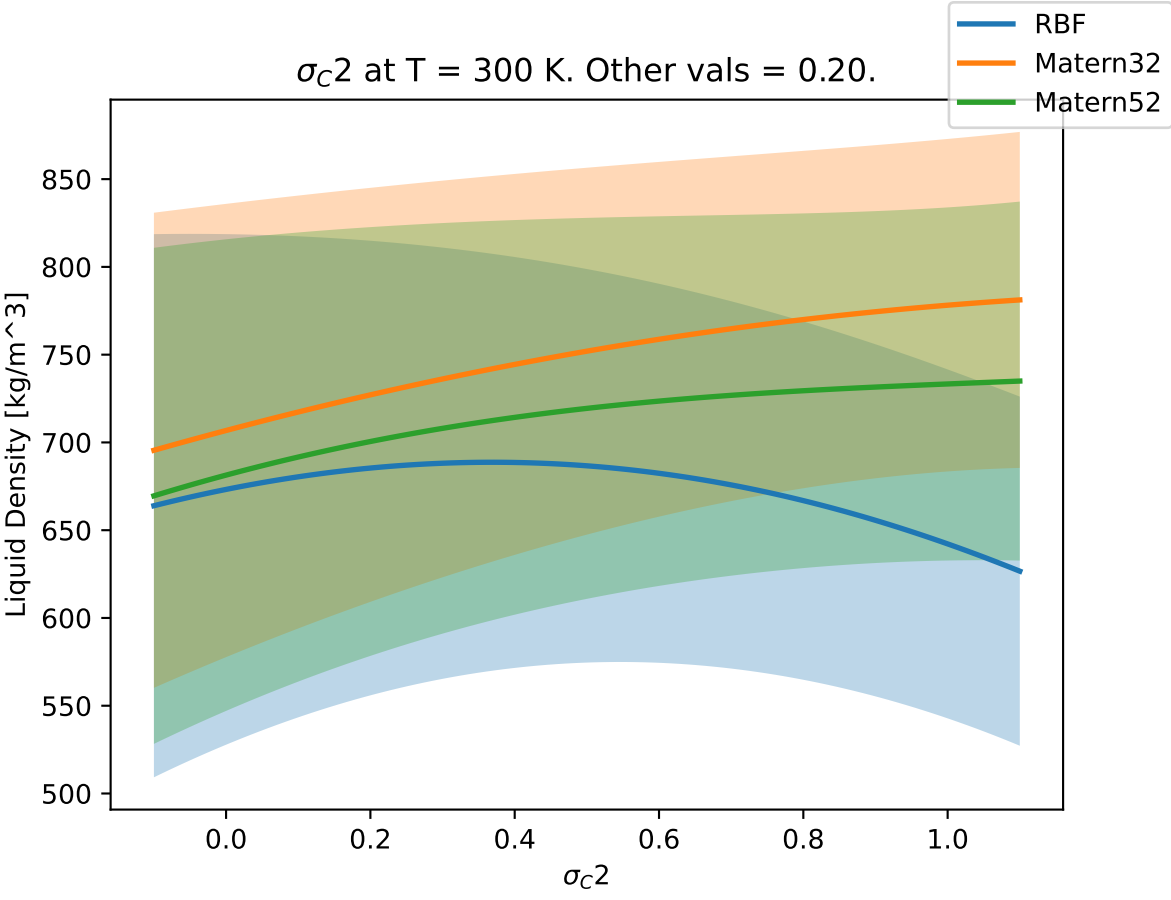

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

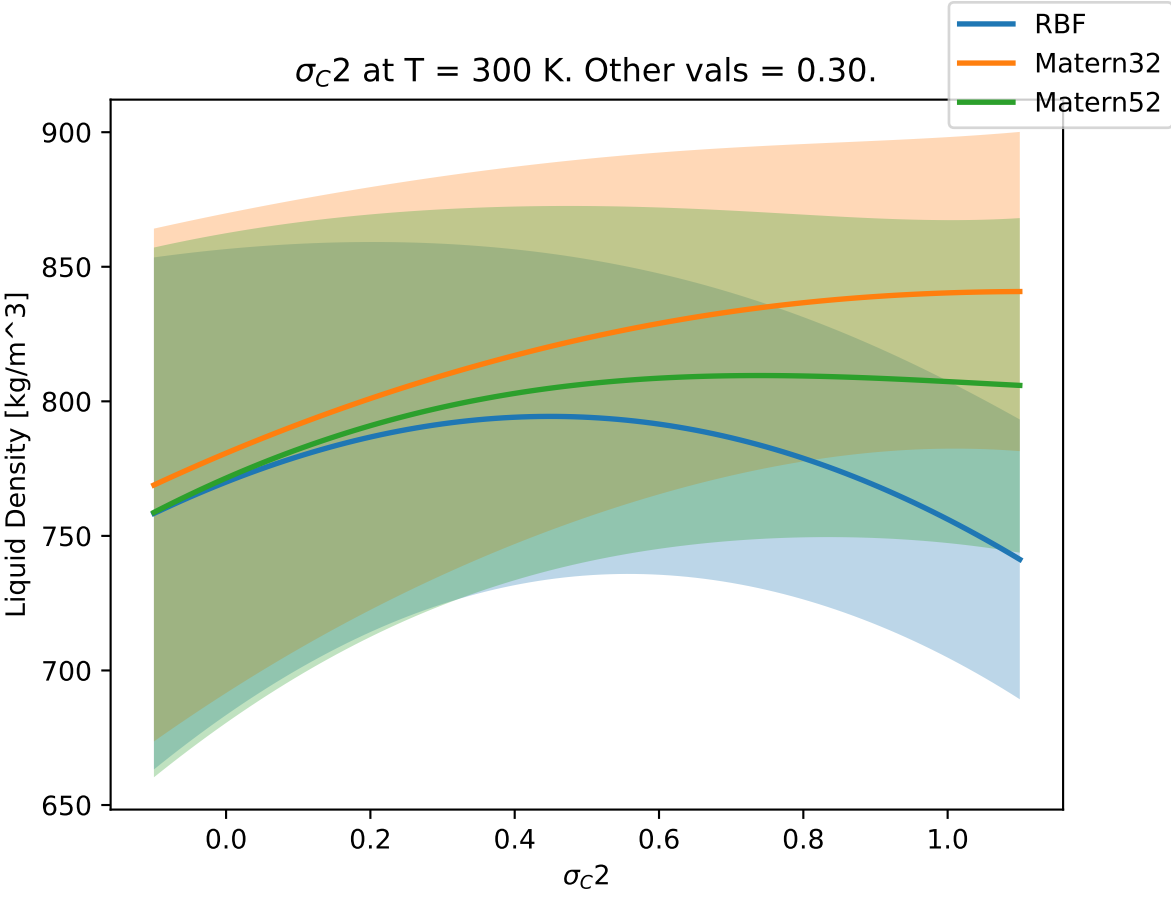

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

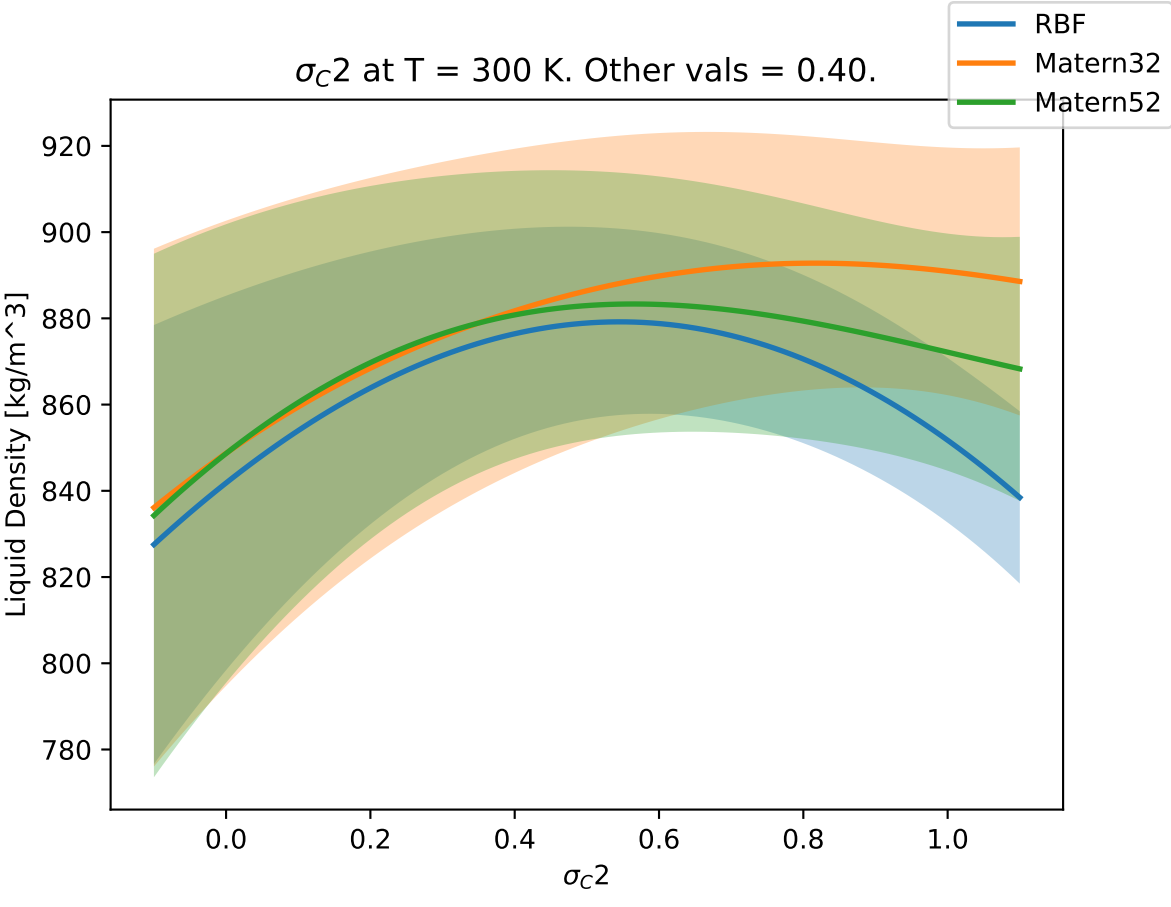

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

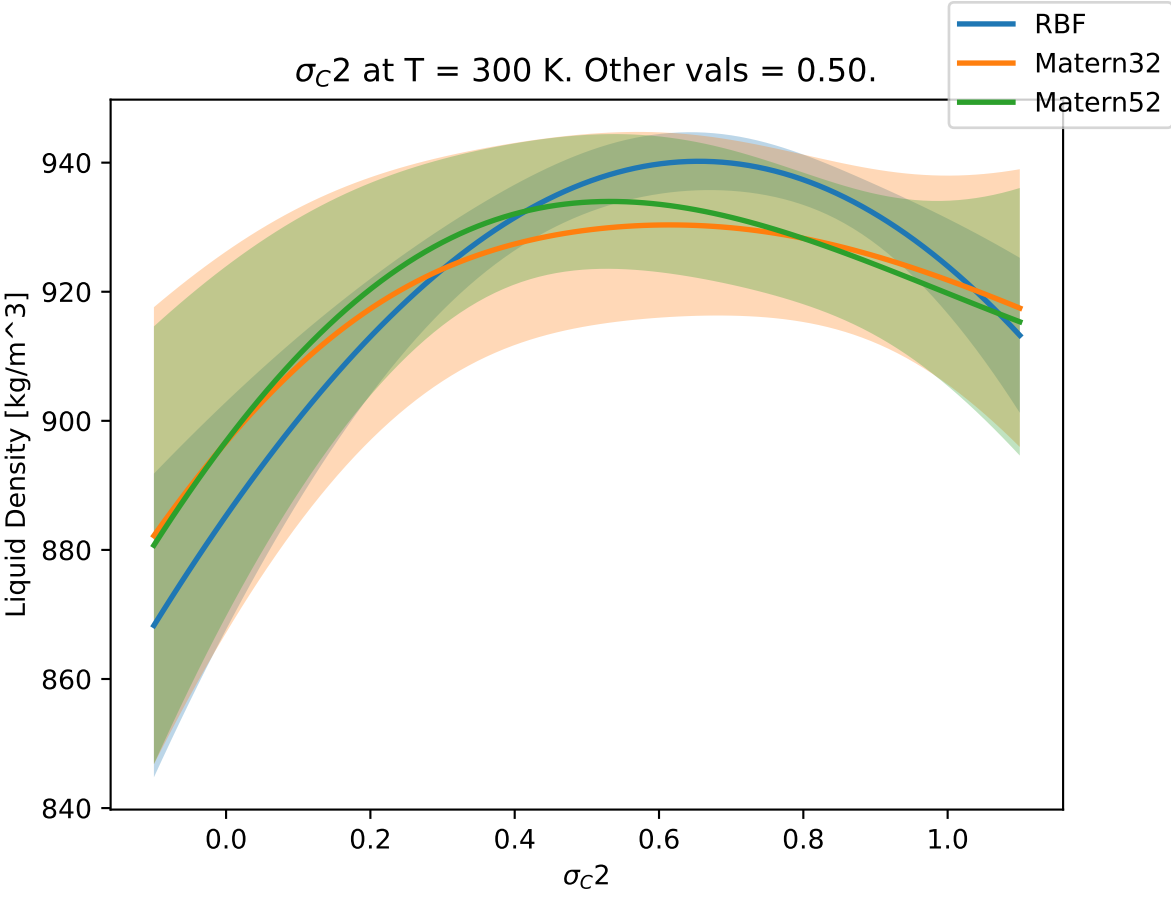

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
800
700
600
500
400
300
200
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

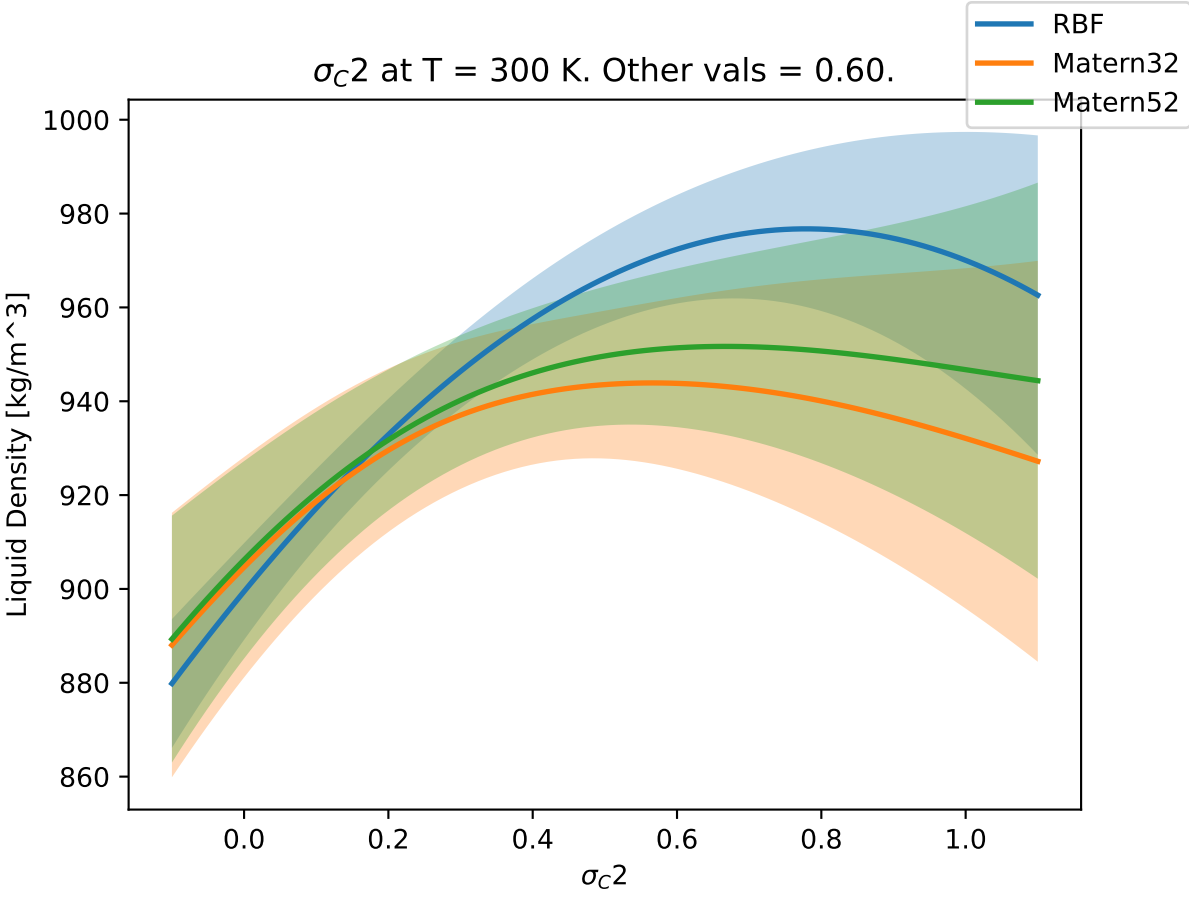

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
800
700
600
500
400
300
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

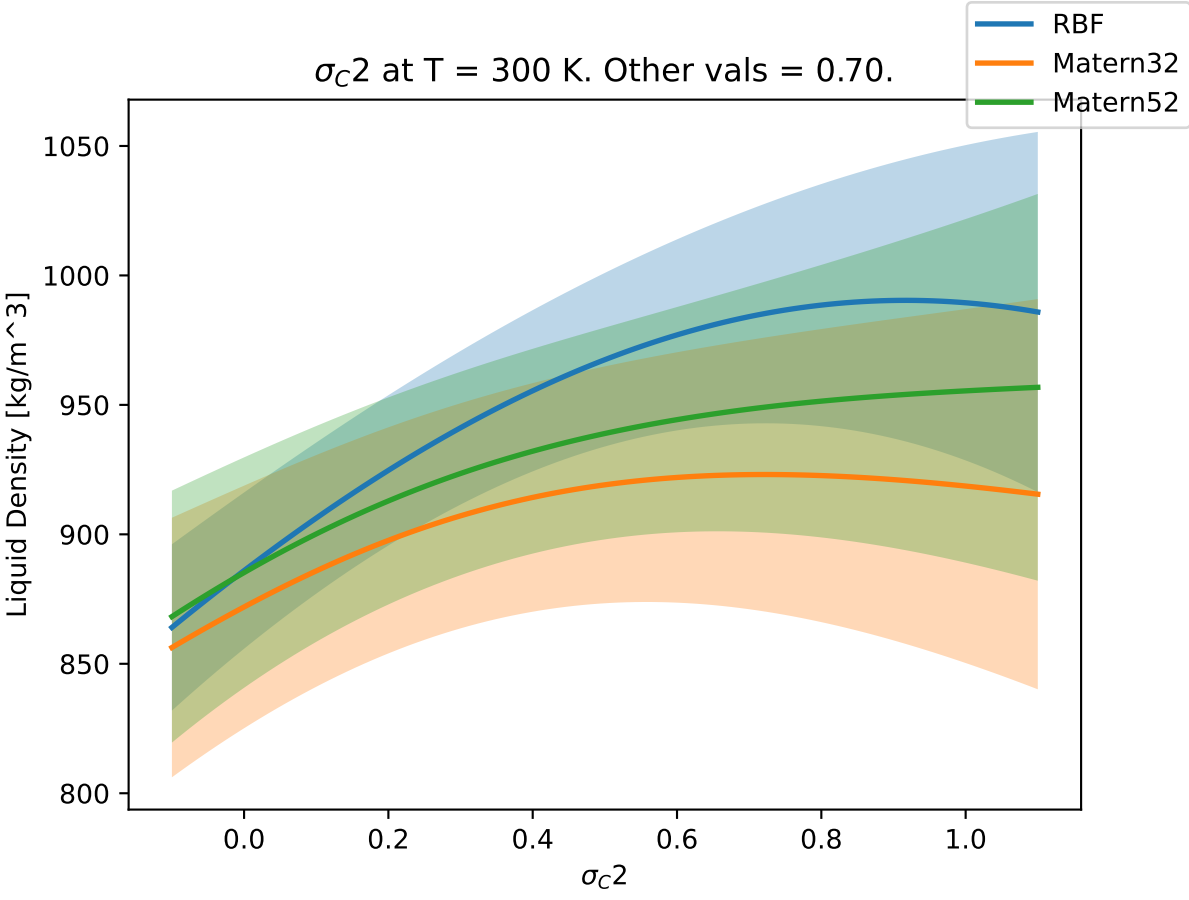

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
850
800
750
700
650
600
550
500
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

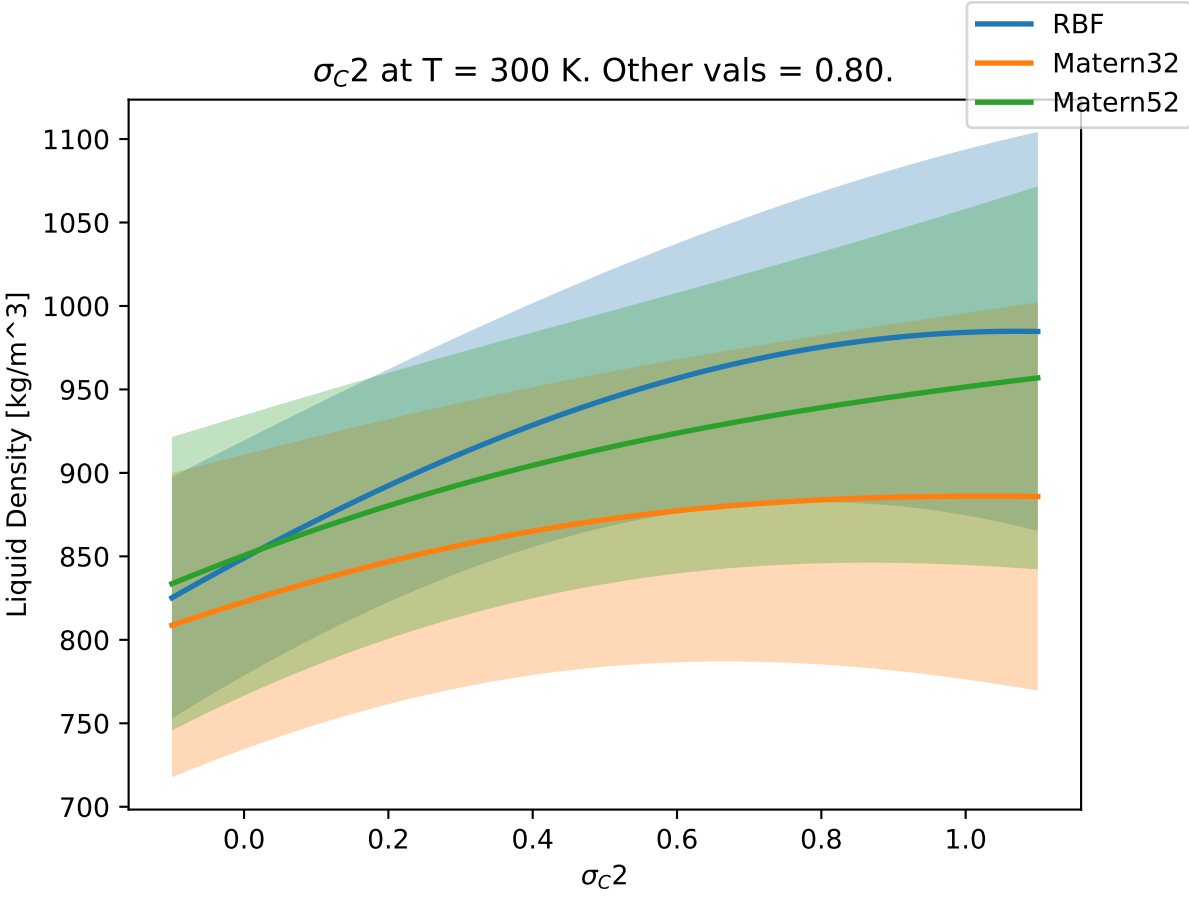

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
900
850
800
750
700
650
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

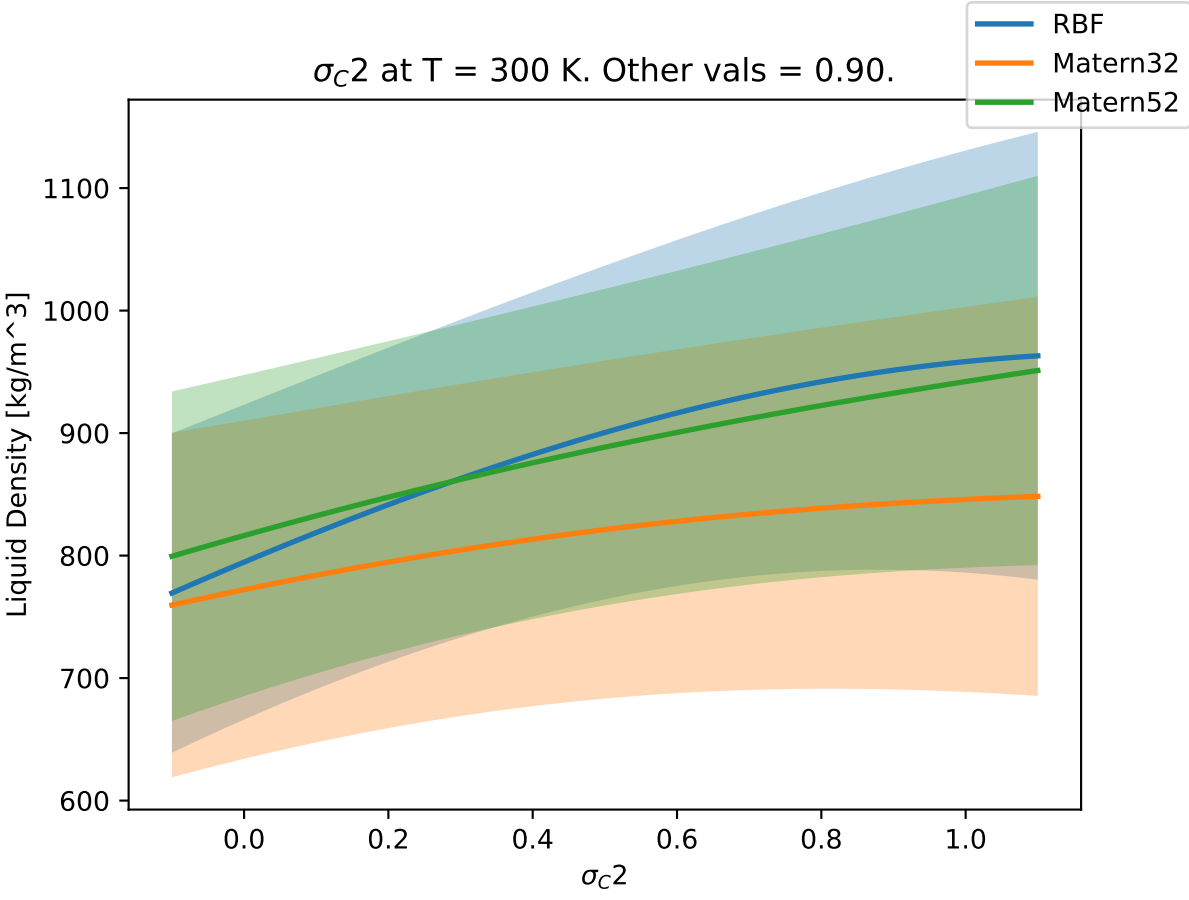

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.40.
Liquid Density [kg/m^3]
920
900
880
860
840
820
800
780
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

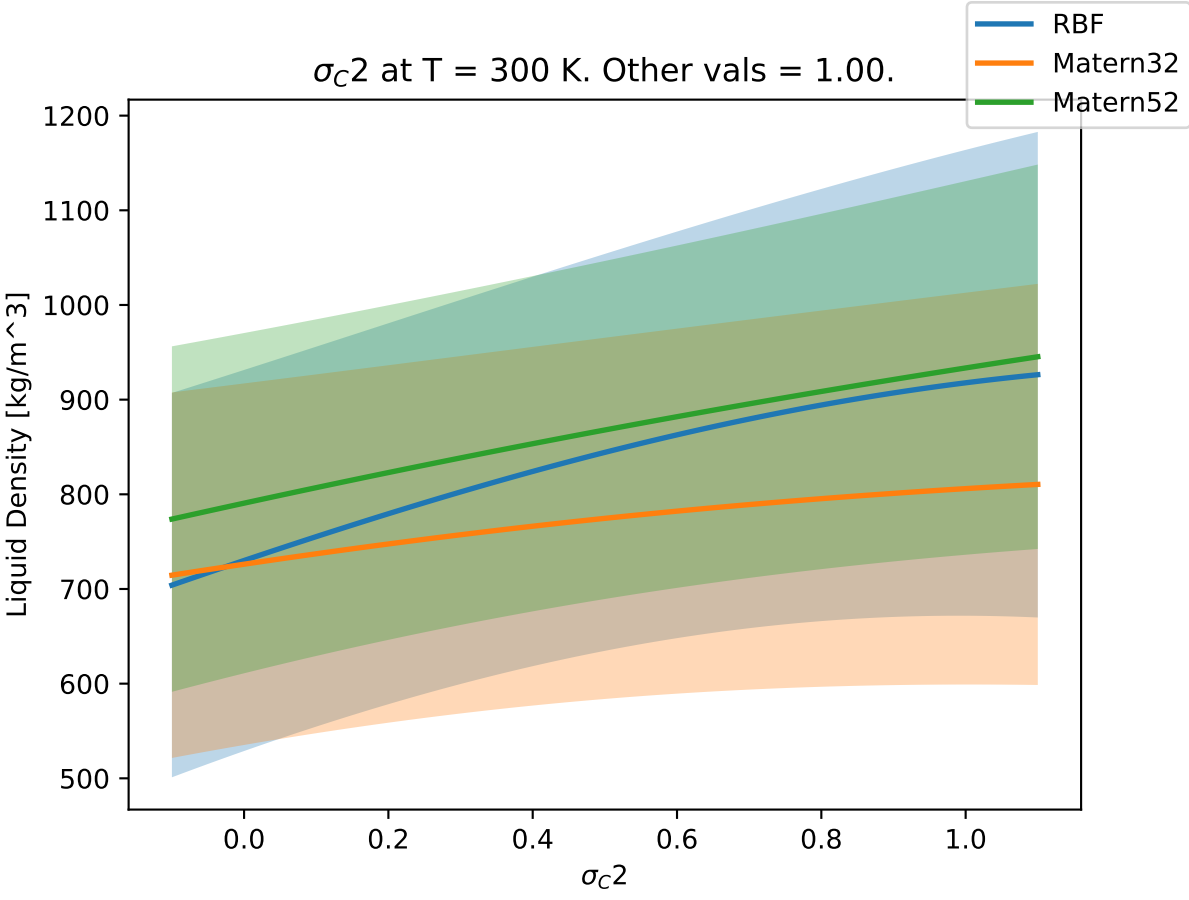

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
940
920
900
880
860
840
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

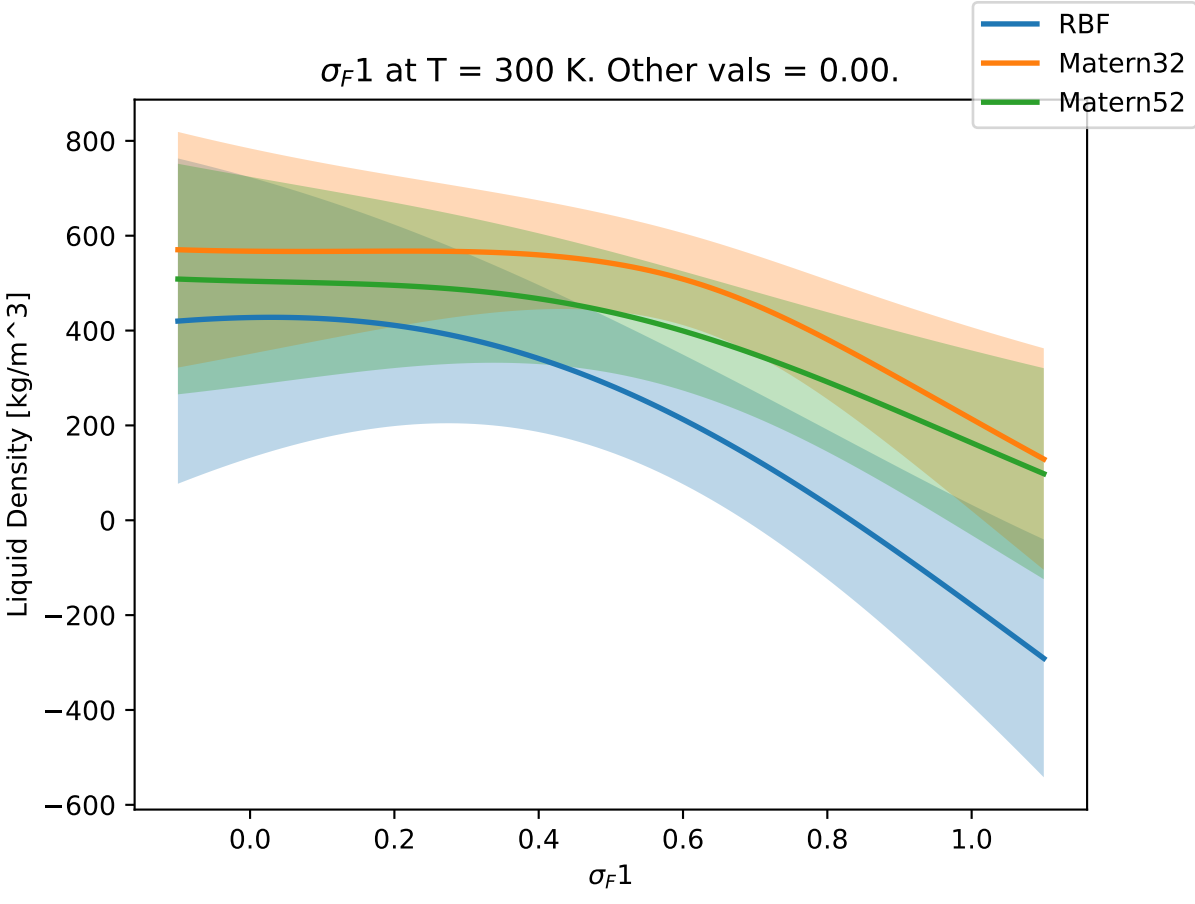

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1000
980
960
940
920
900
880
860
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

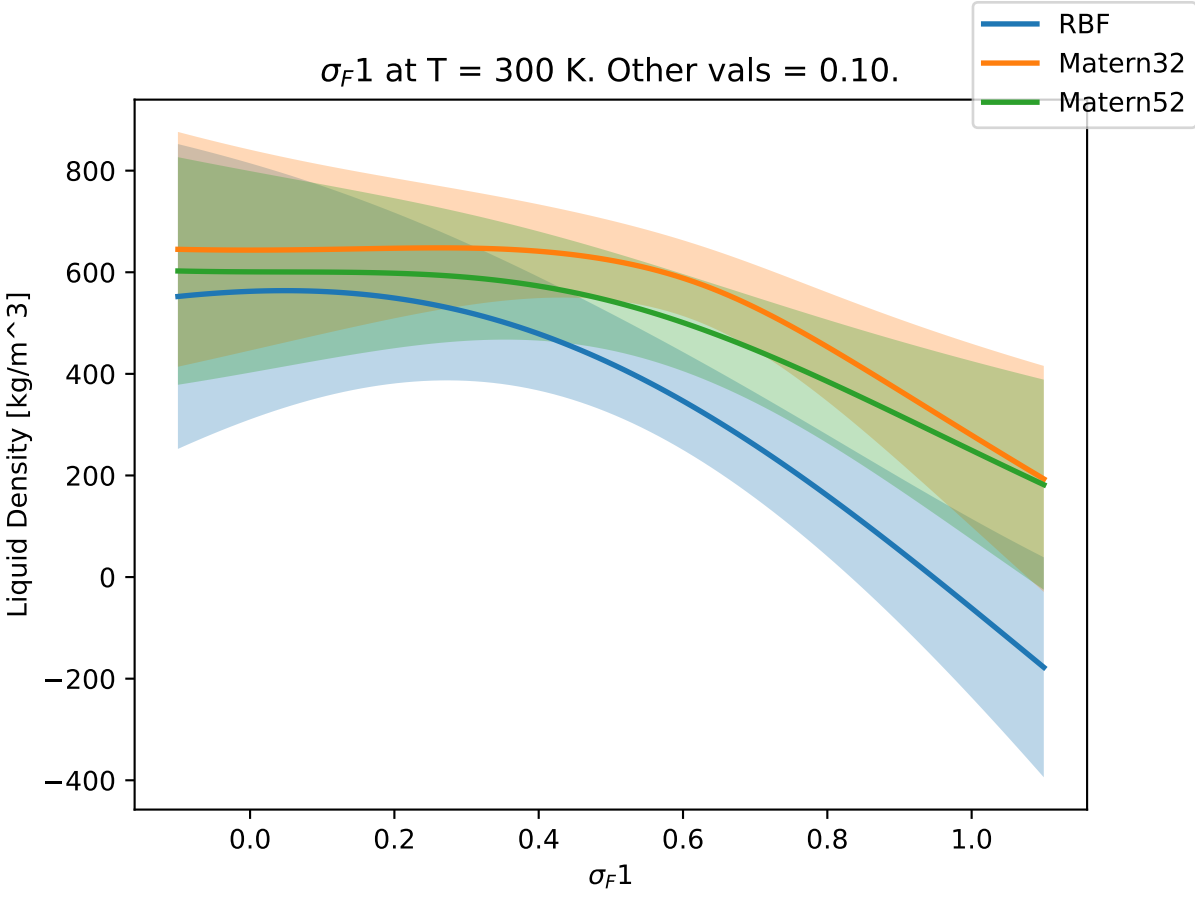

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1050
1000
950
900
850
800
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

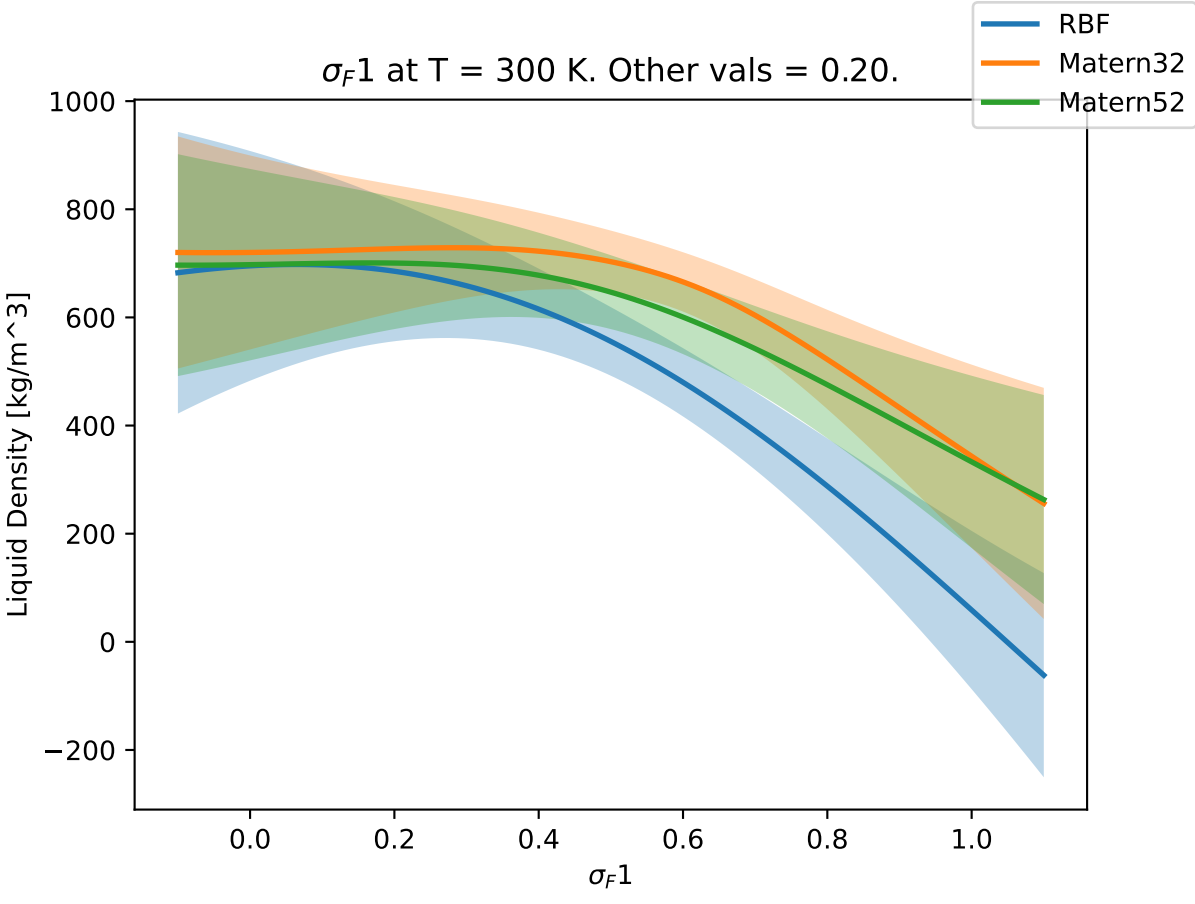

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1100
1050
1000
950
900
850
800
750
700
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

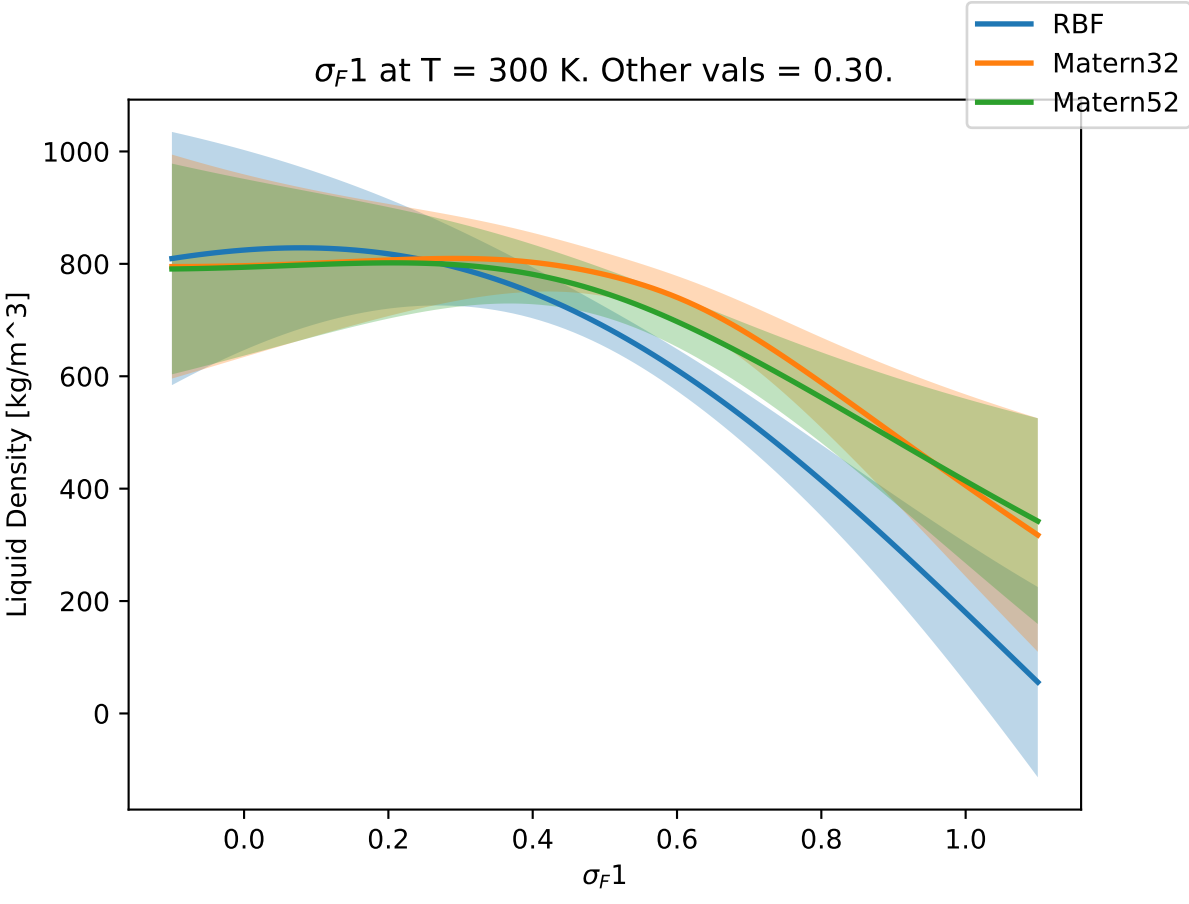

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

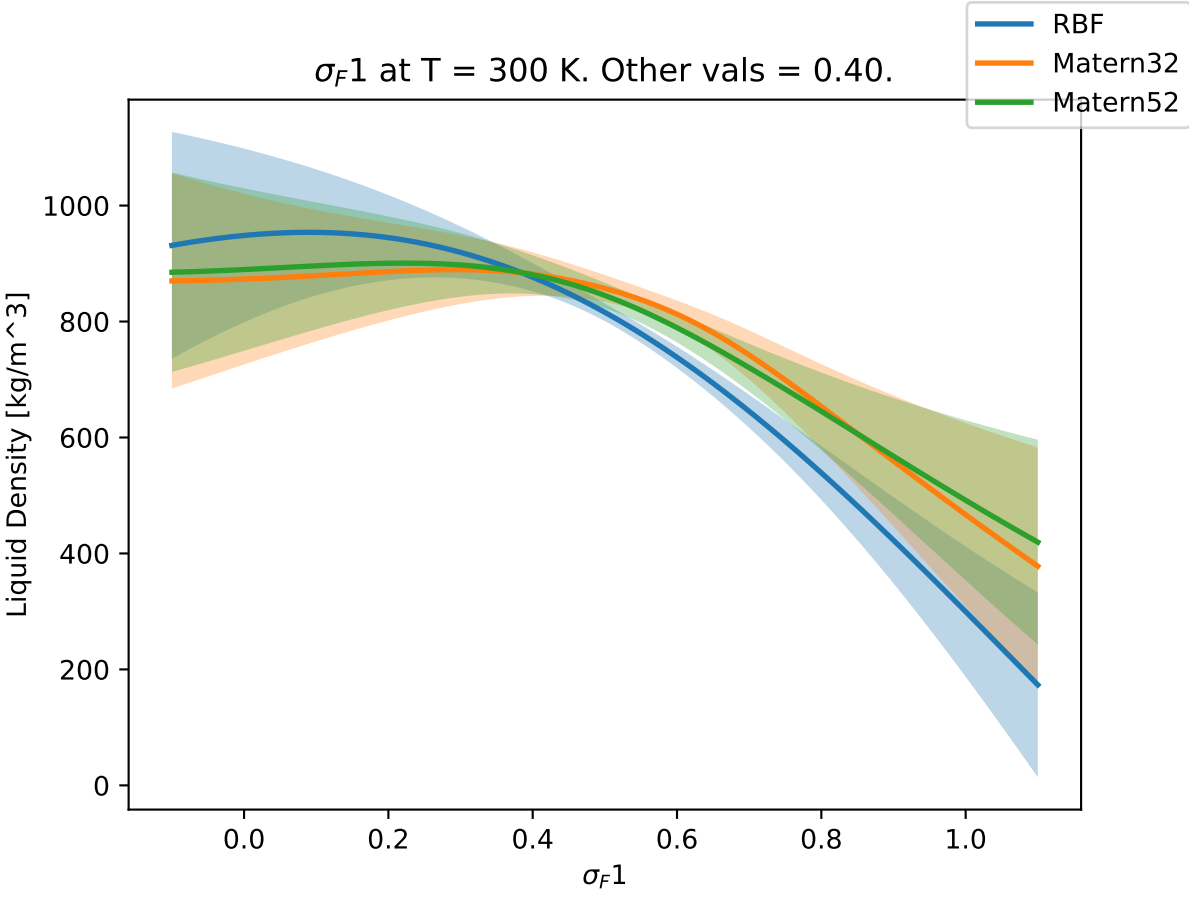

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

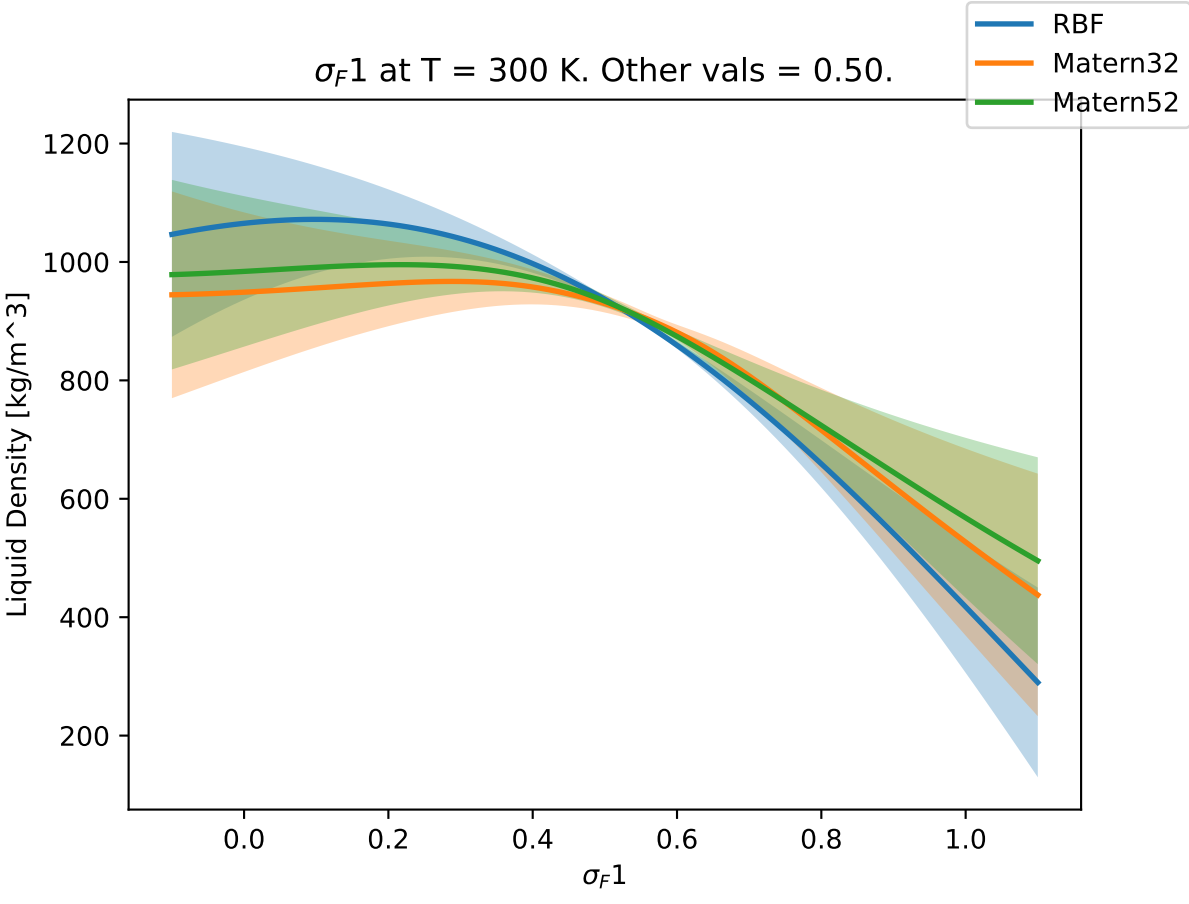

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
800
600
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

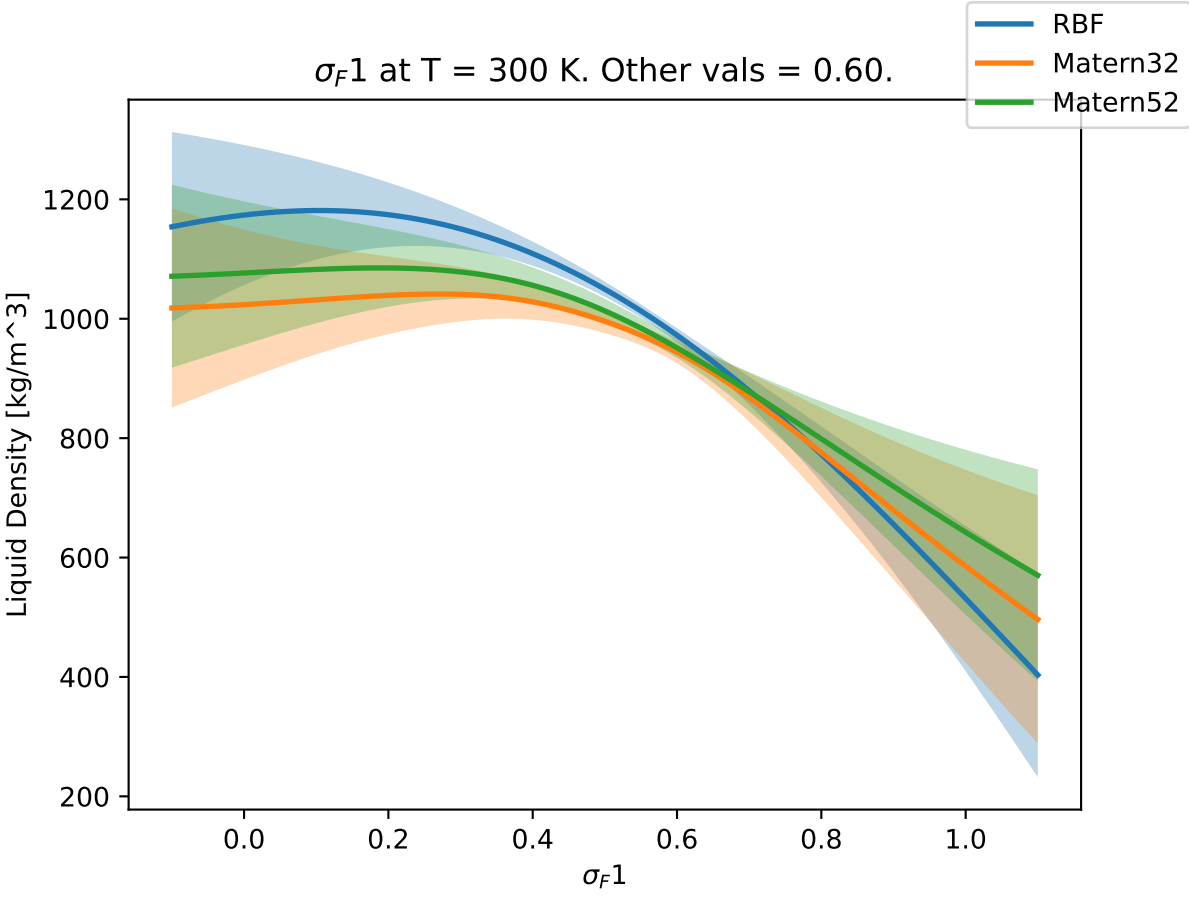

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
800
600
400
200
0
−200
−400
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

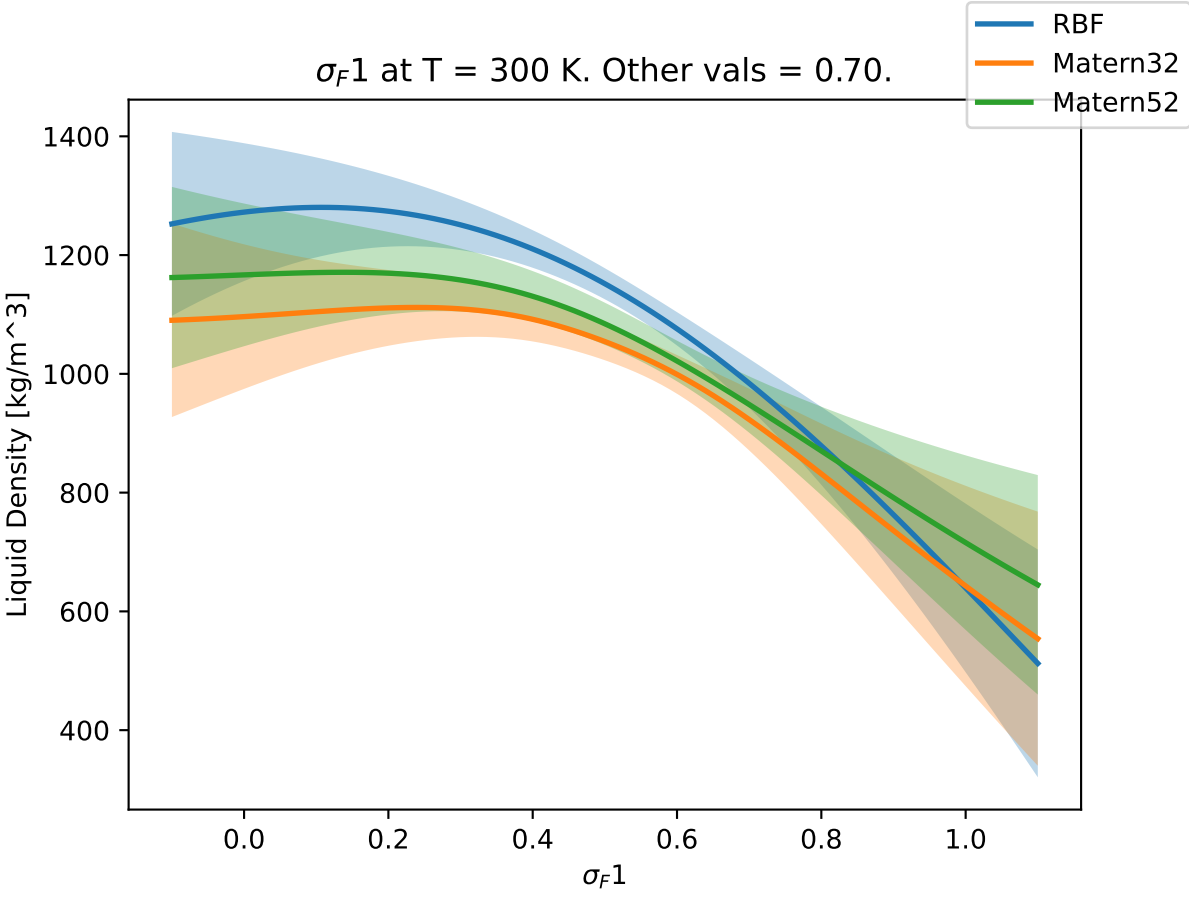

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1000
800
600
400
200
0
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

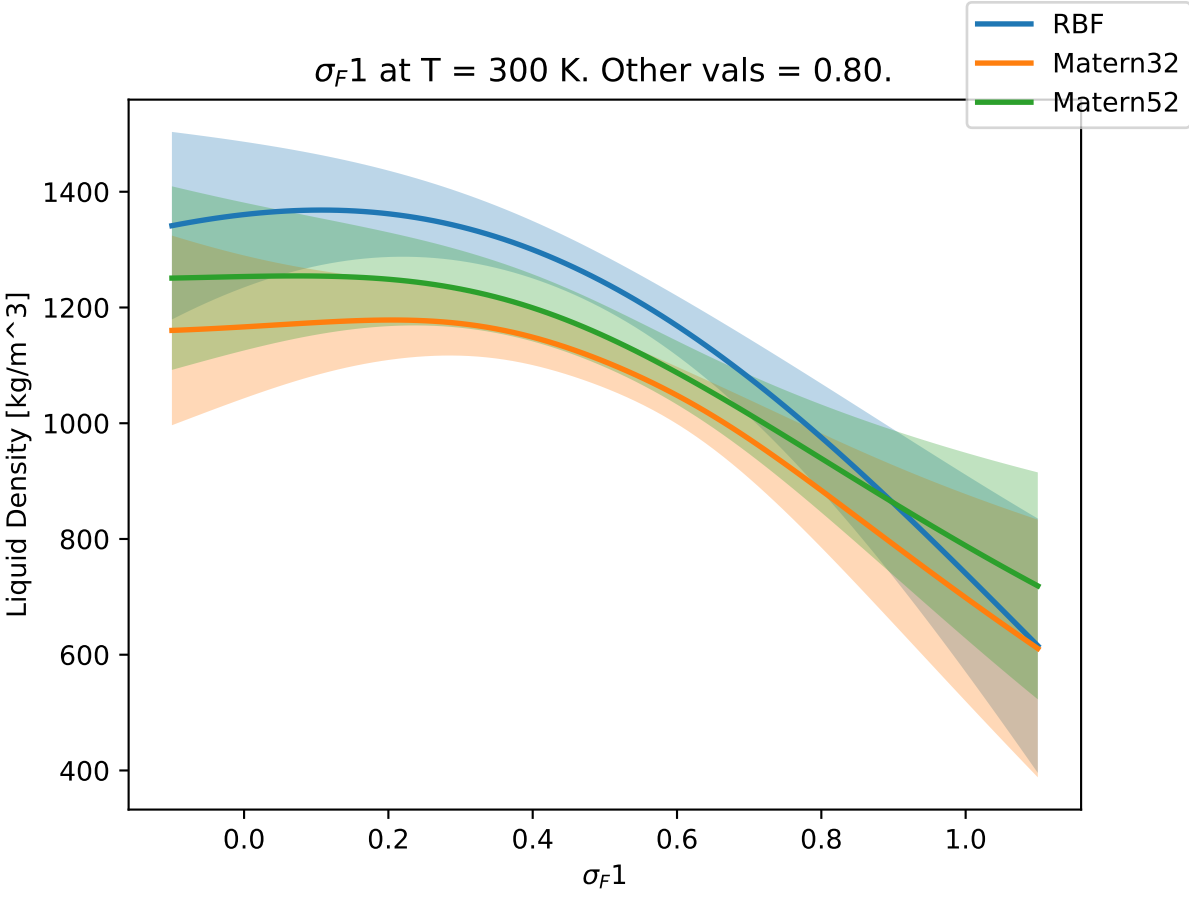

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1000
800
600
400
200
0
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

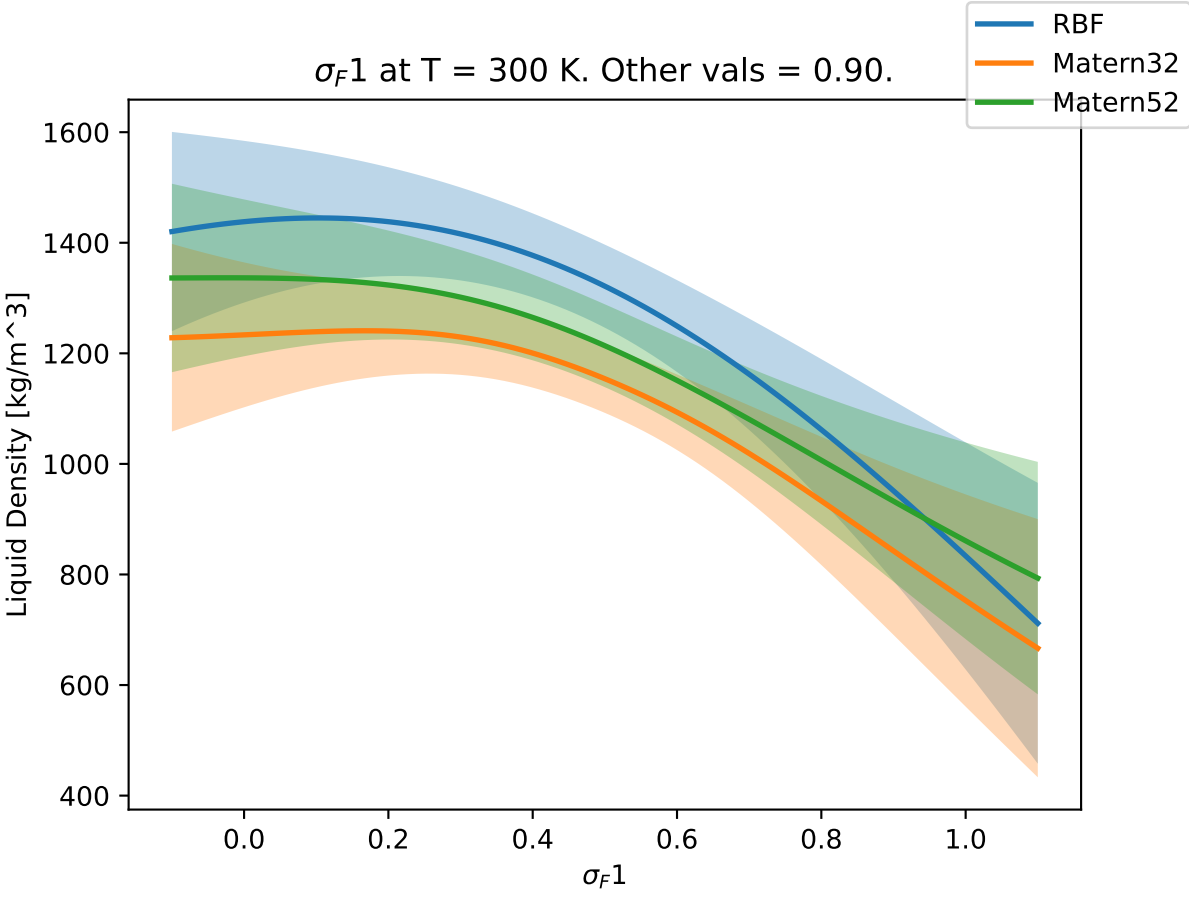

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.40.
Liquid Density [kg/m^3]
0
200
400
600
800
1000
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

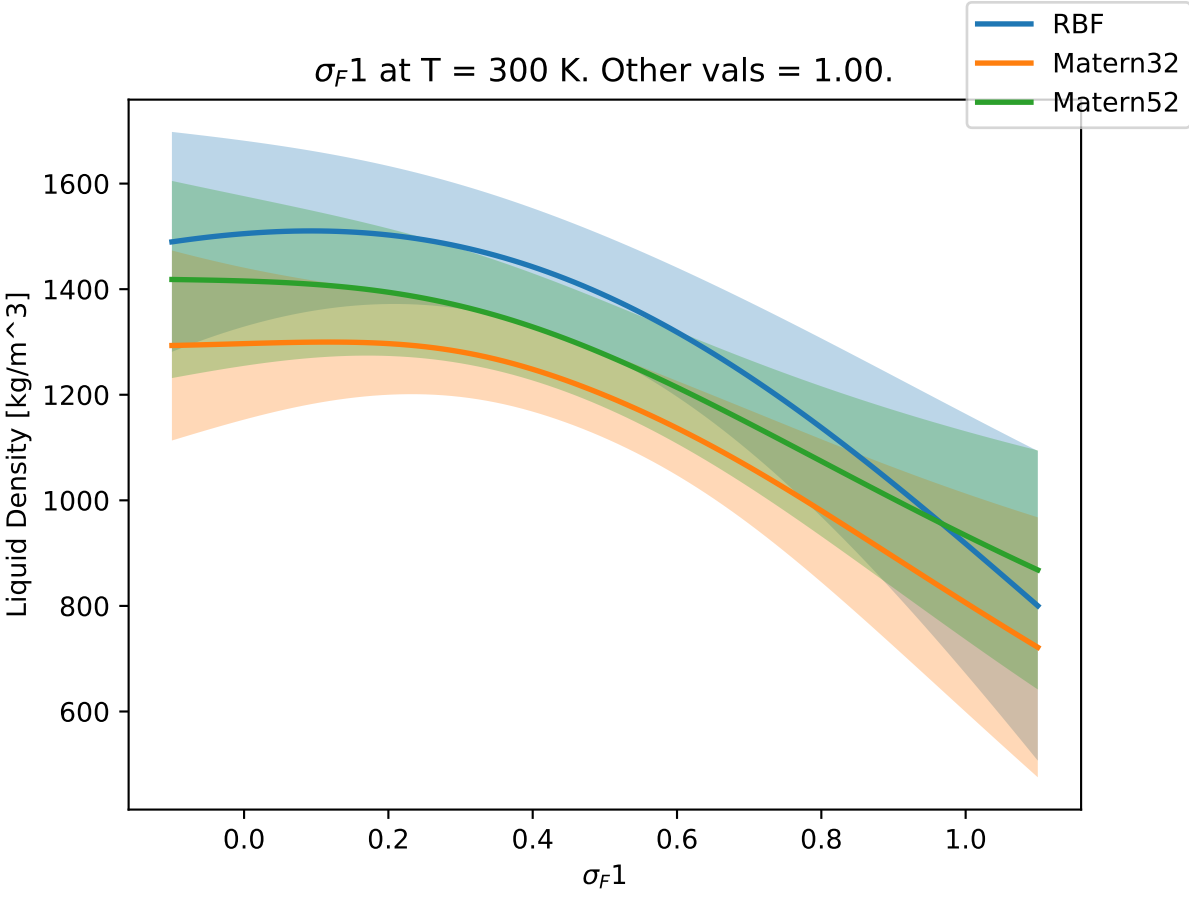

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1200
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

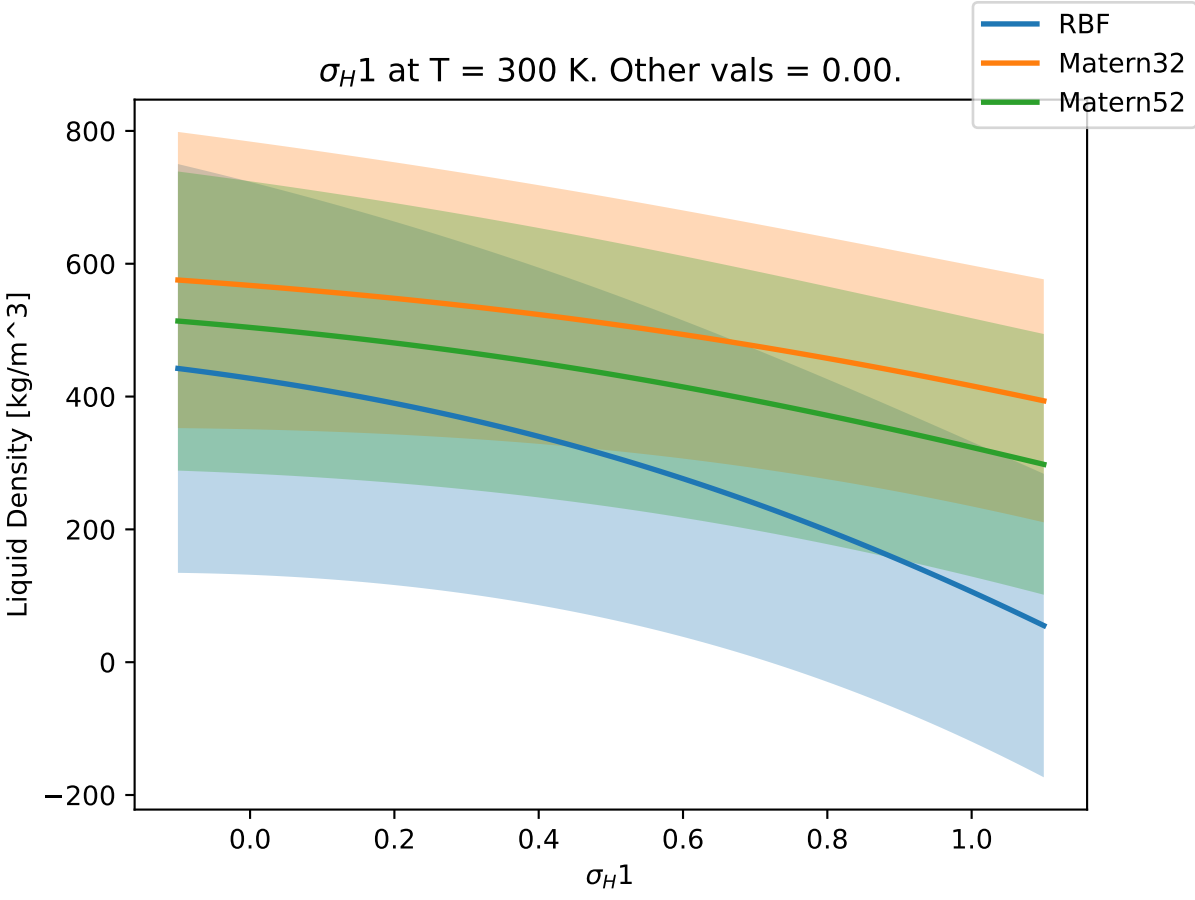

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1200
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

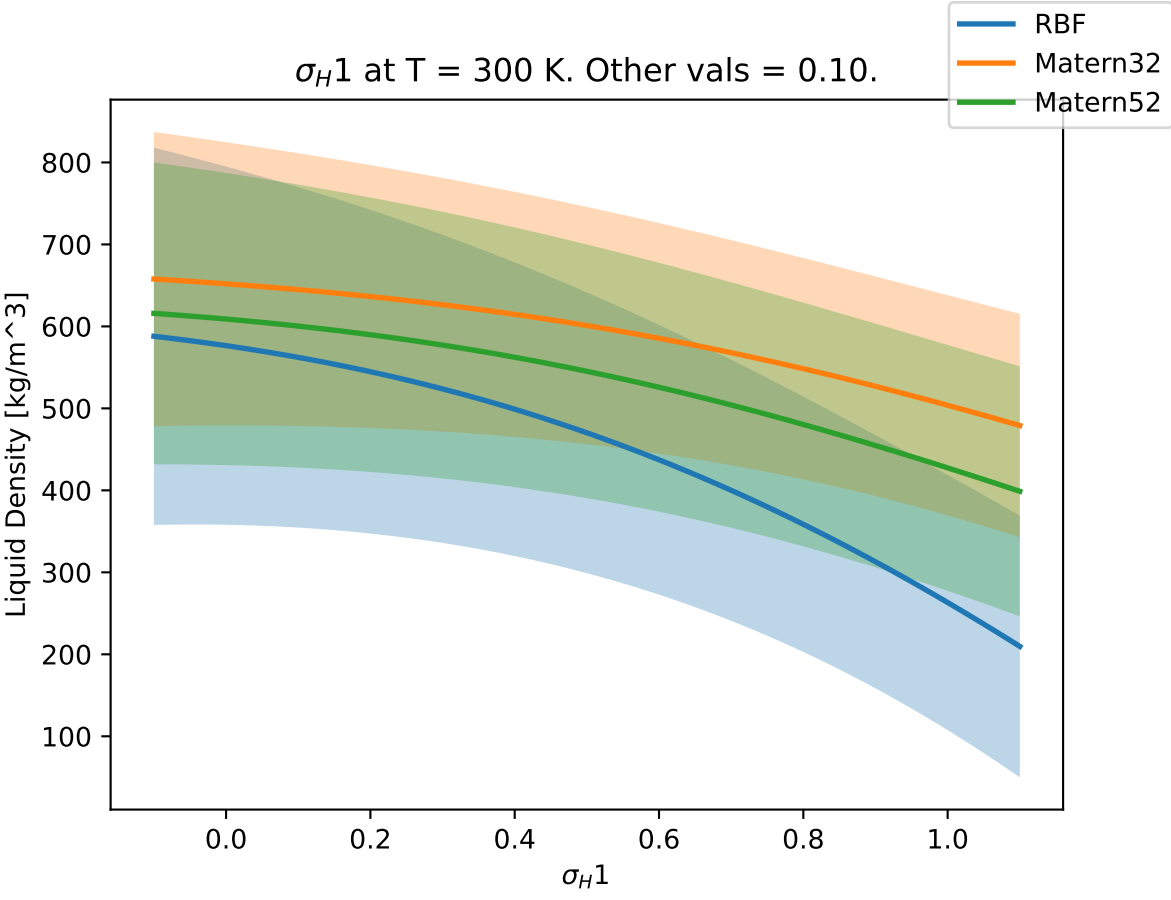

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

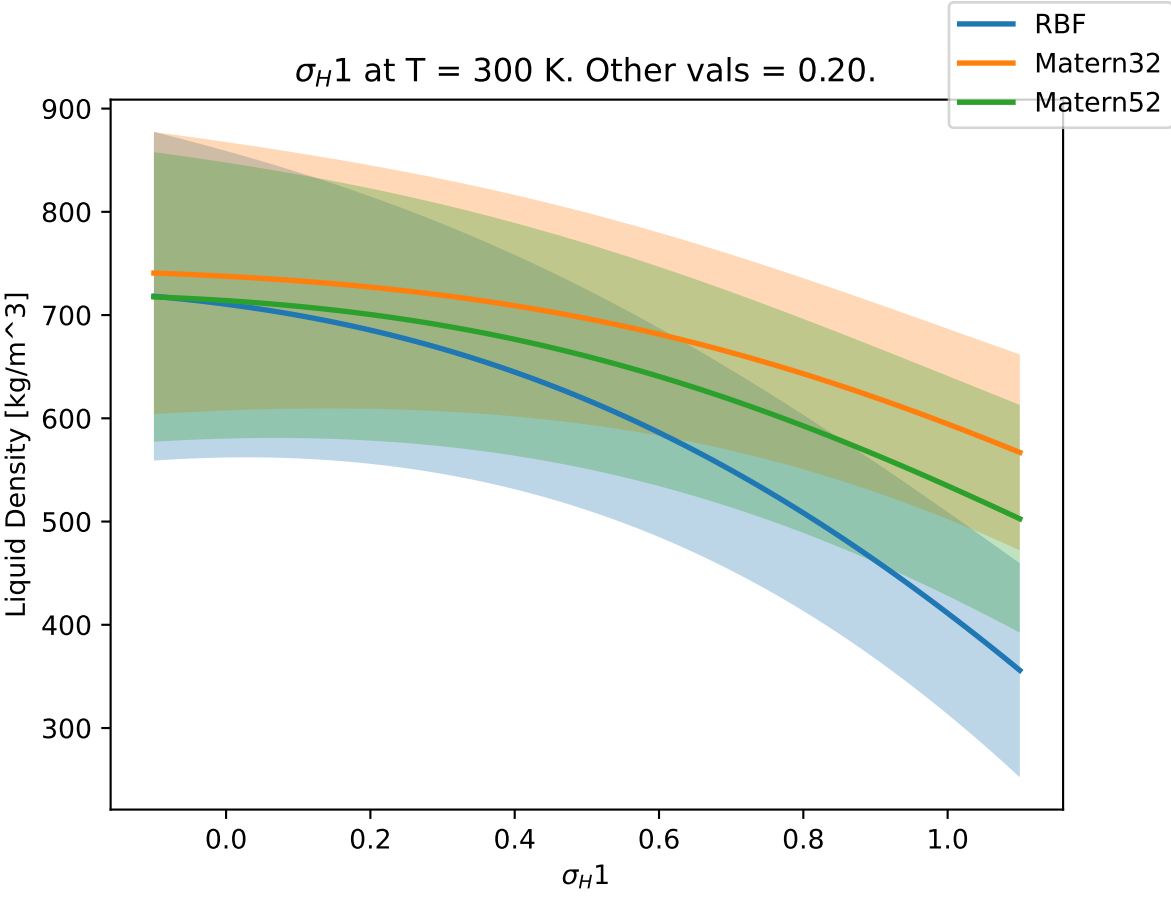

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

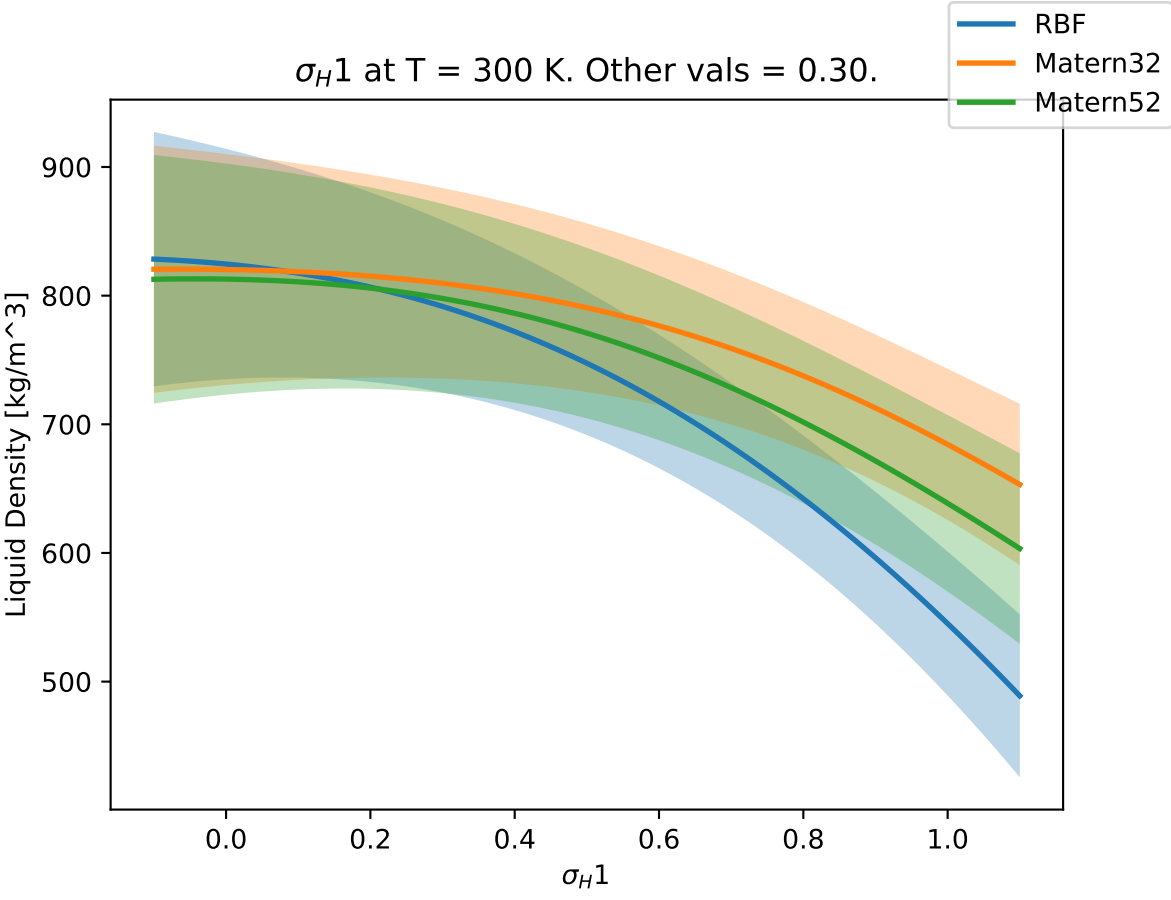

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

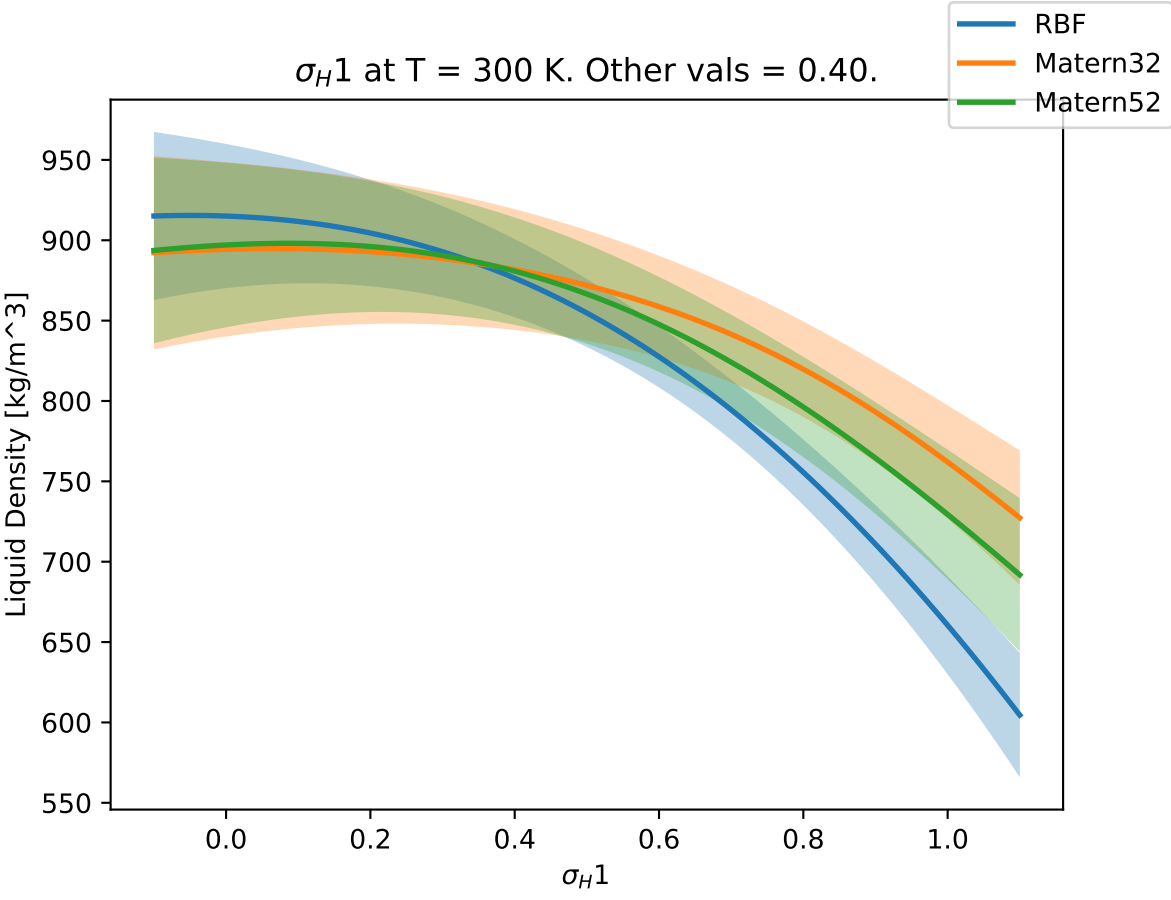

RBF
Matern32
Matern52
σ_F1 at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1600
1400
1200
1000
800
600
0.0
0.2
0.4
0.6
0.8
1.0
σ_F1

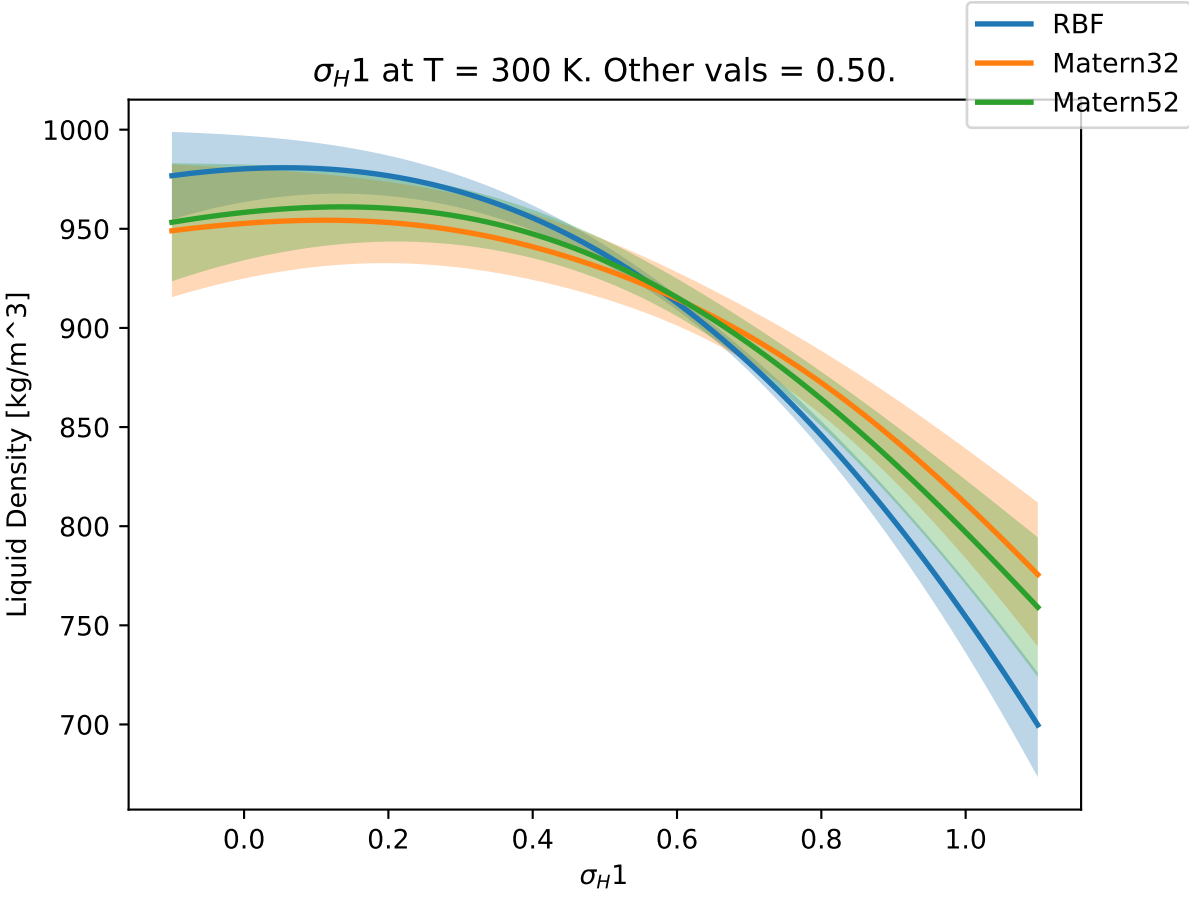

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
800
600
400
200
0
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

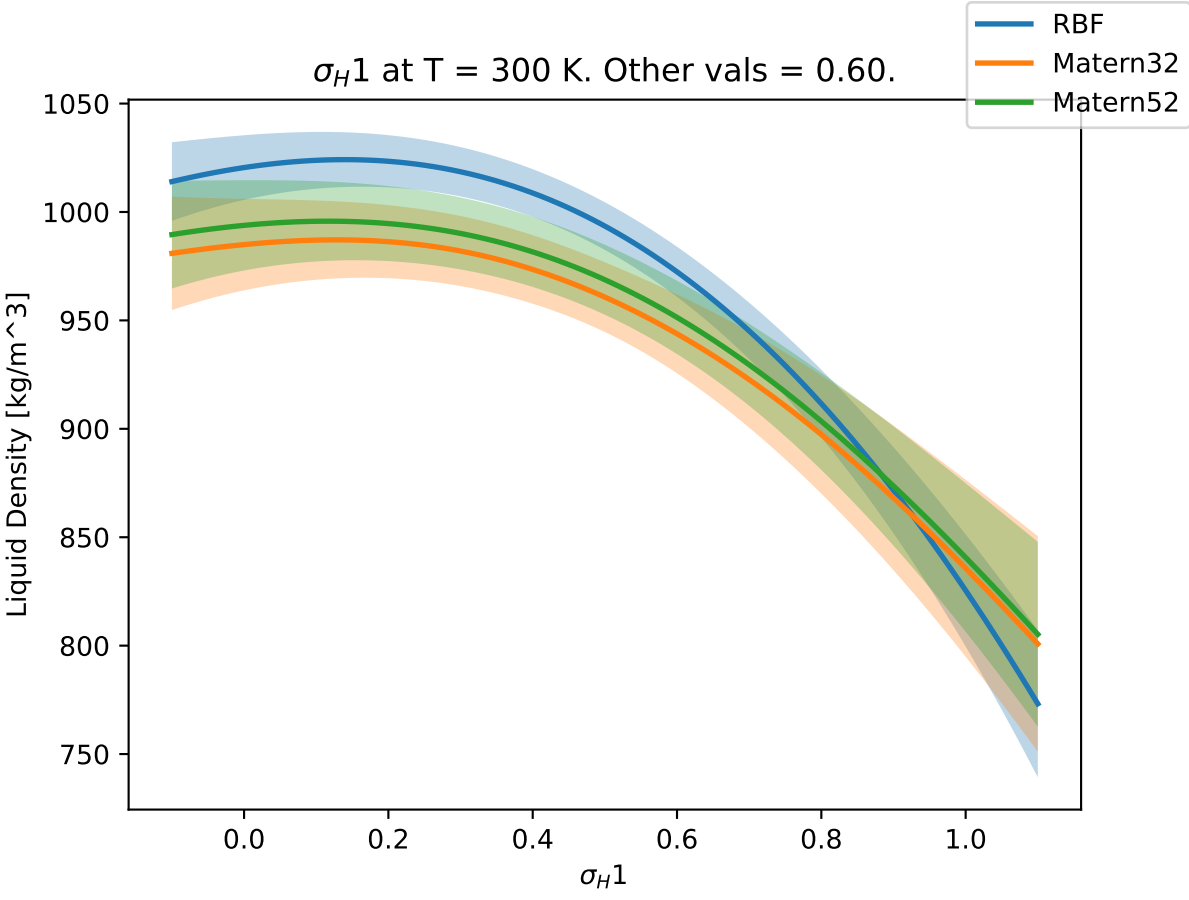

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
800
700
600
500
400
300
200
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

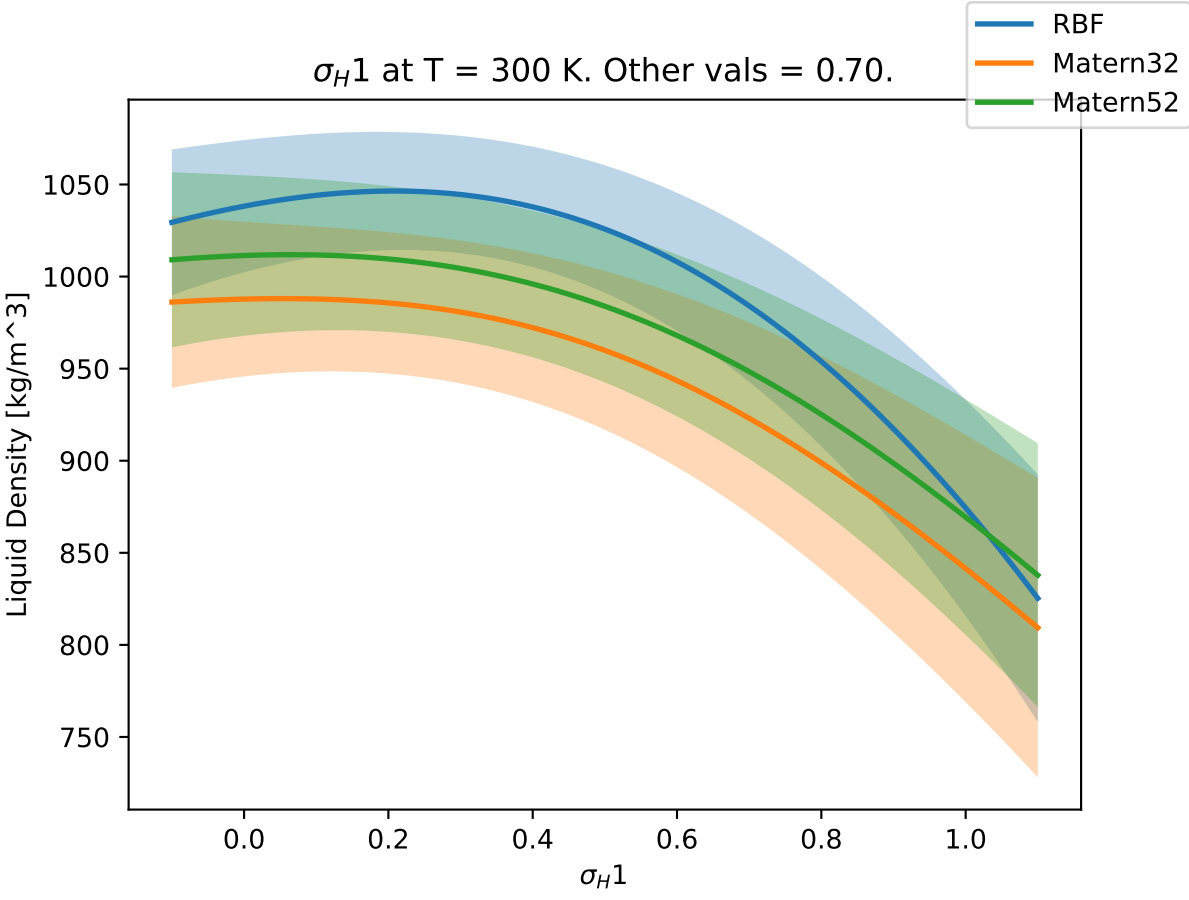

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
900
800
700
600
500
400
300
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

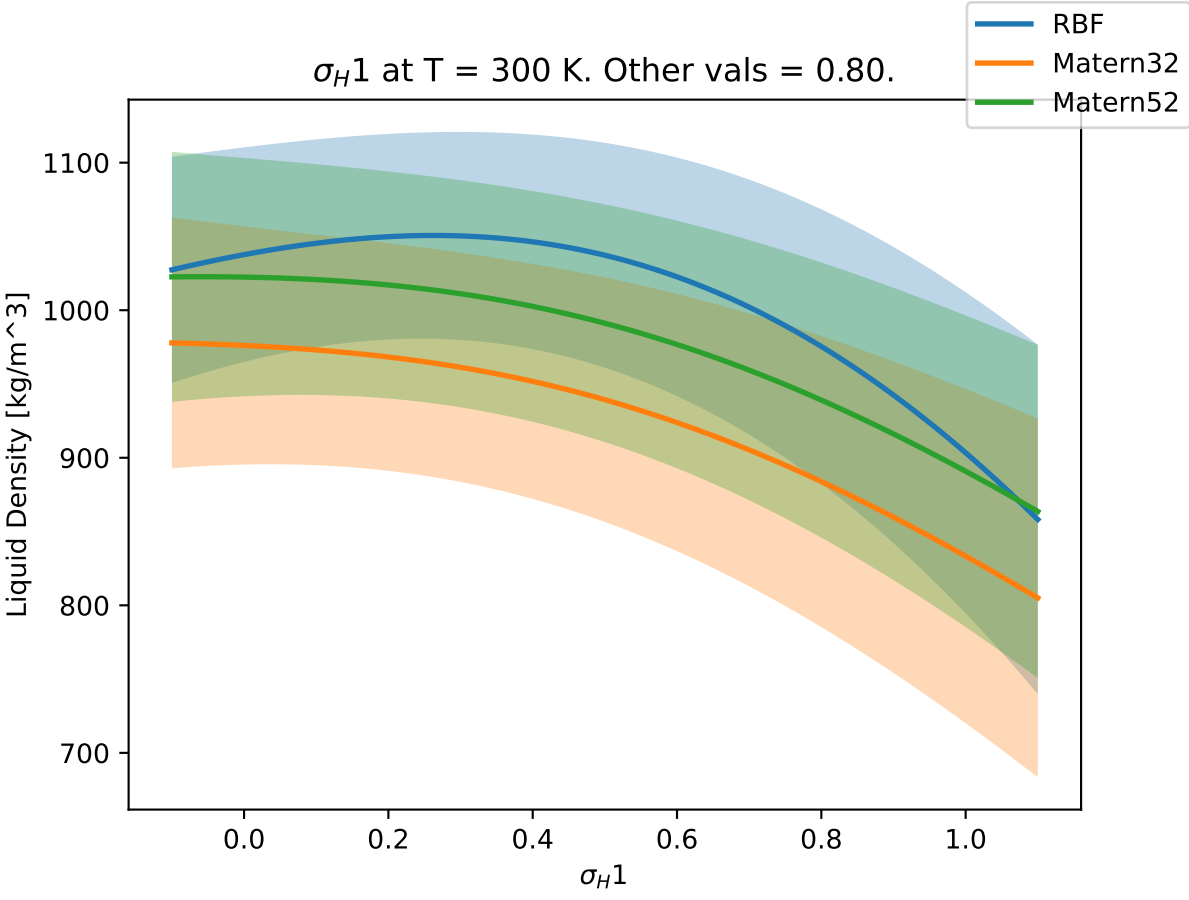

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

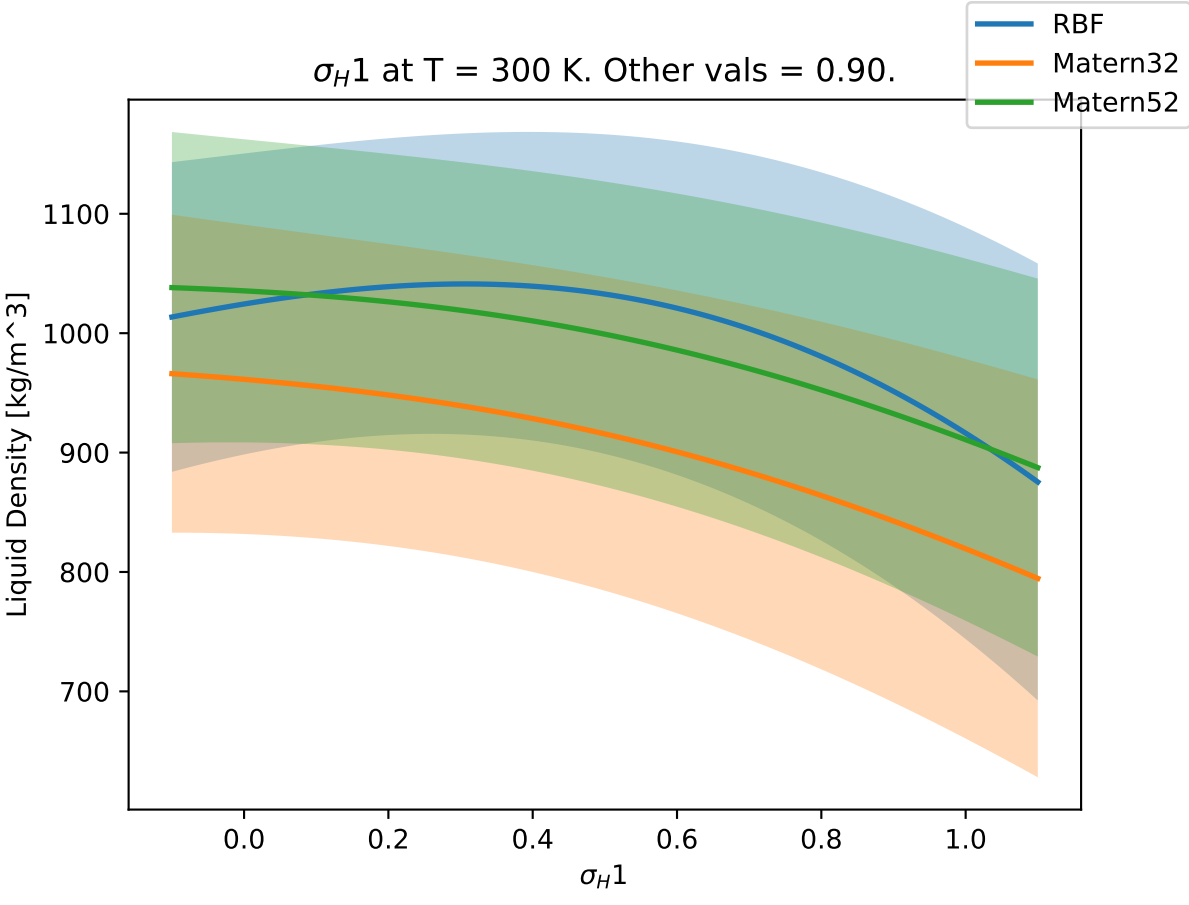

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.40.
Liquid Density [kg/m^3]
950
900
850
800
750
700
650
600
550
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

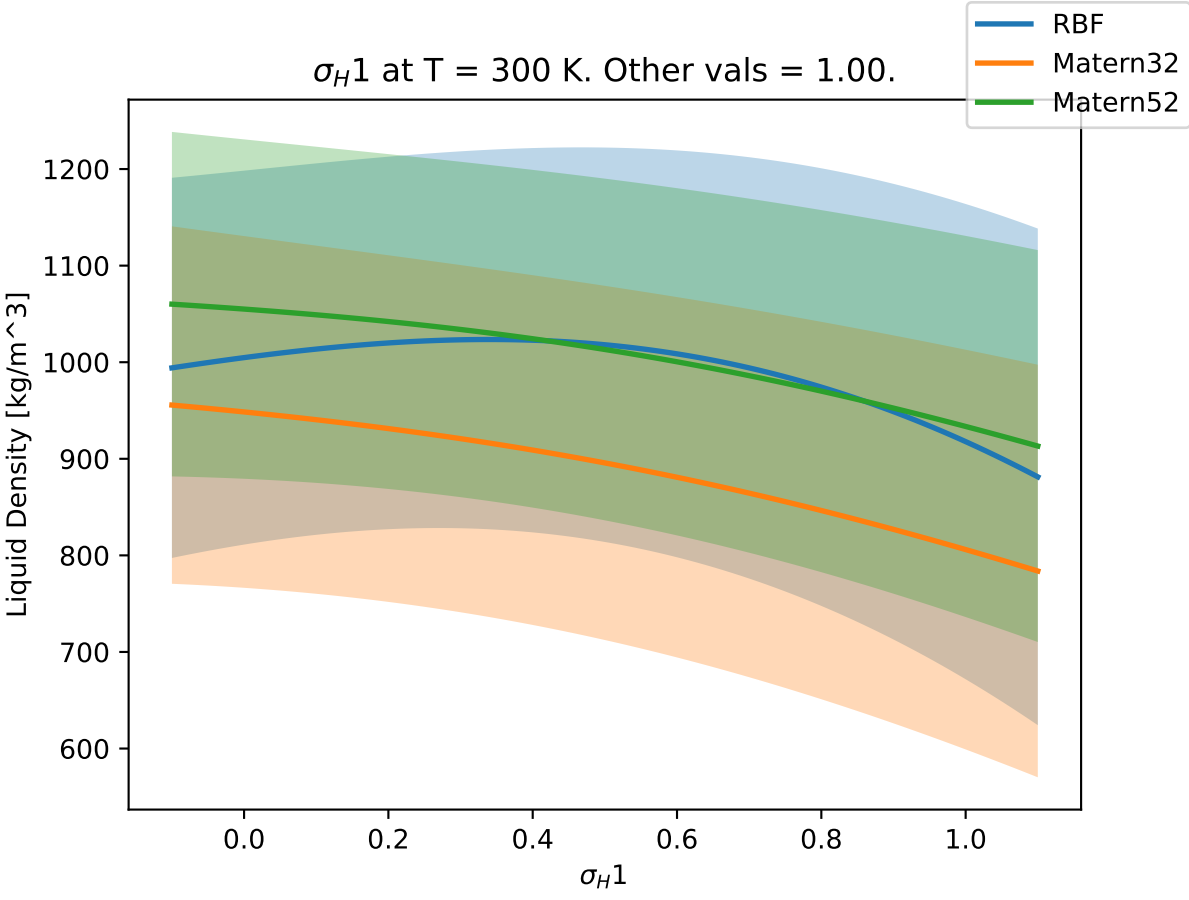

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1000
950
900
850
800
750
700
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

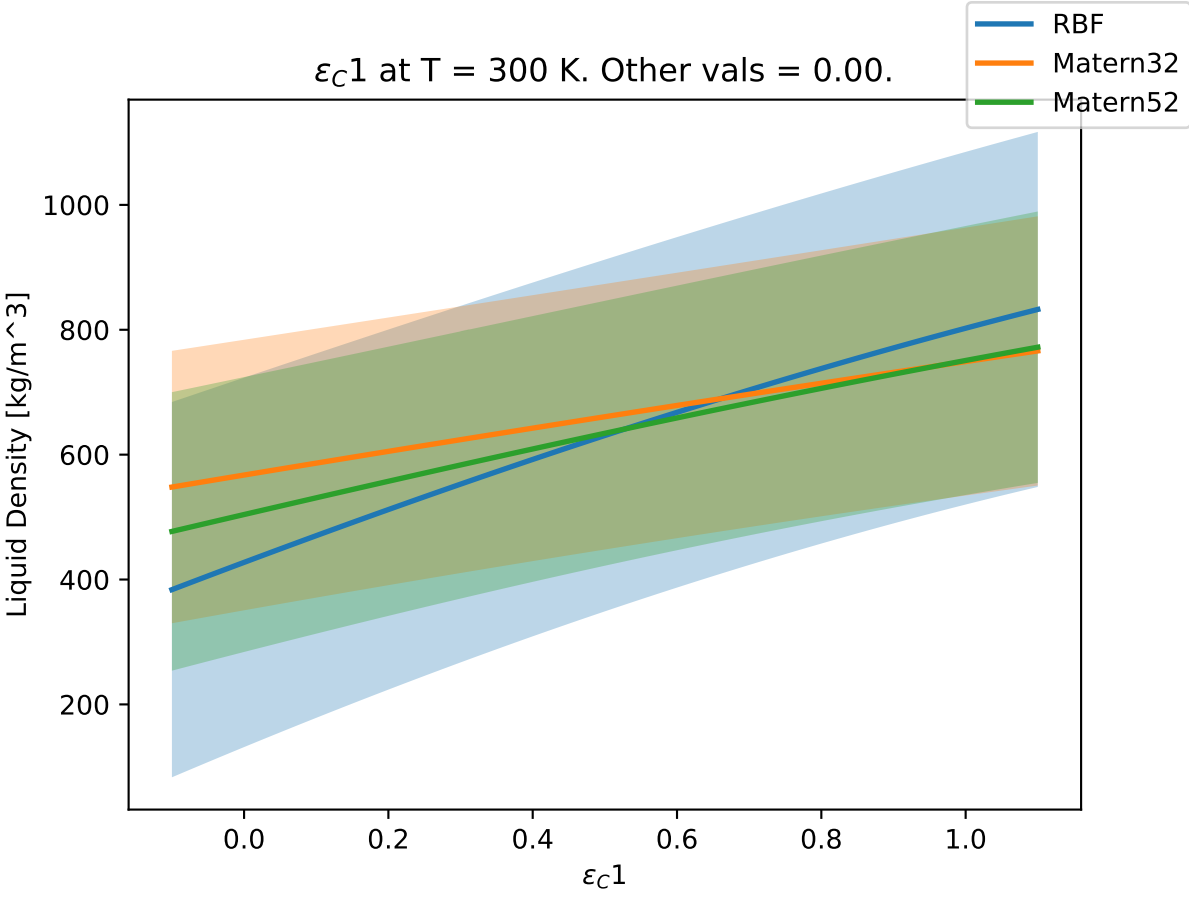

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1050
1000
950
900
850
800
750
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

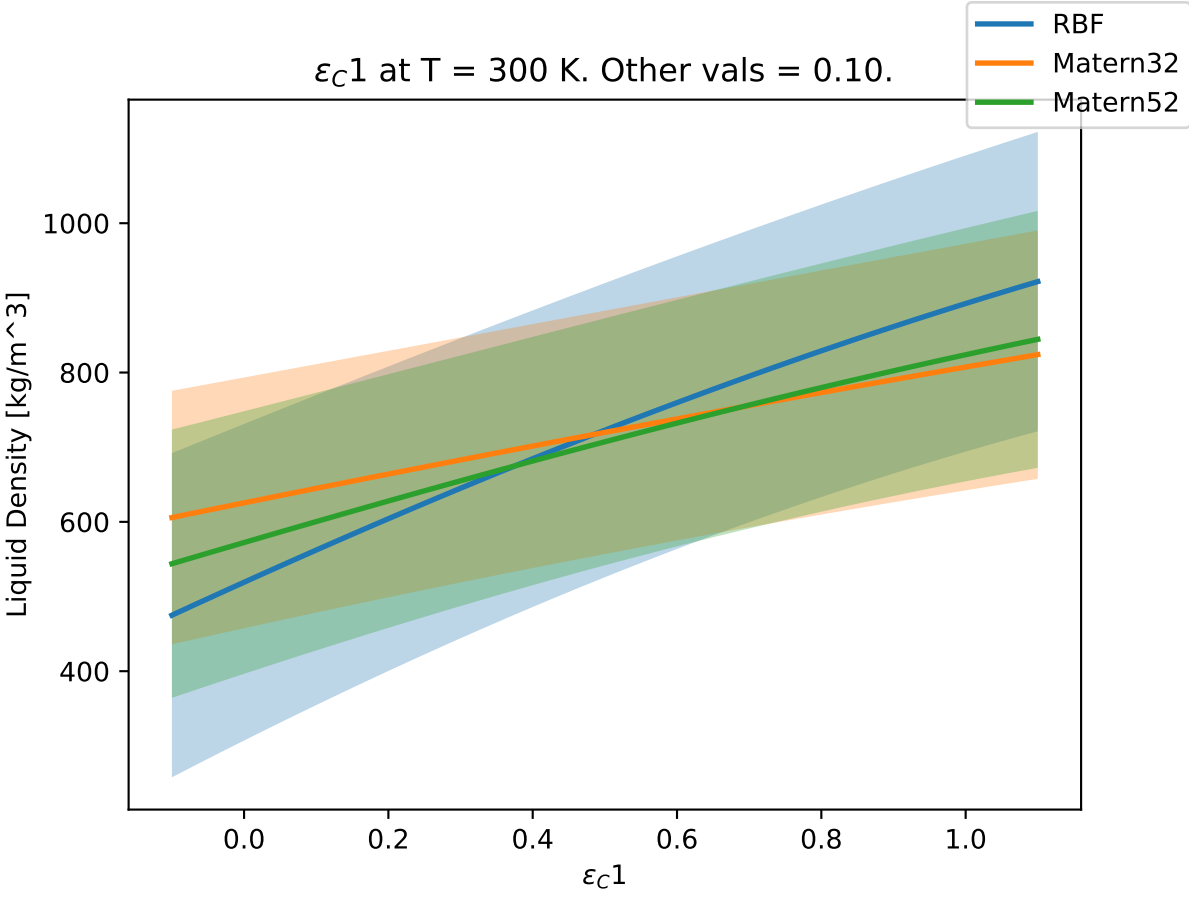

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1050
1000
950
900
850
800
750
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

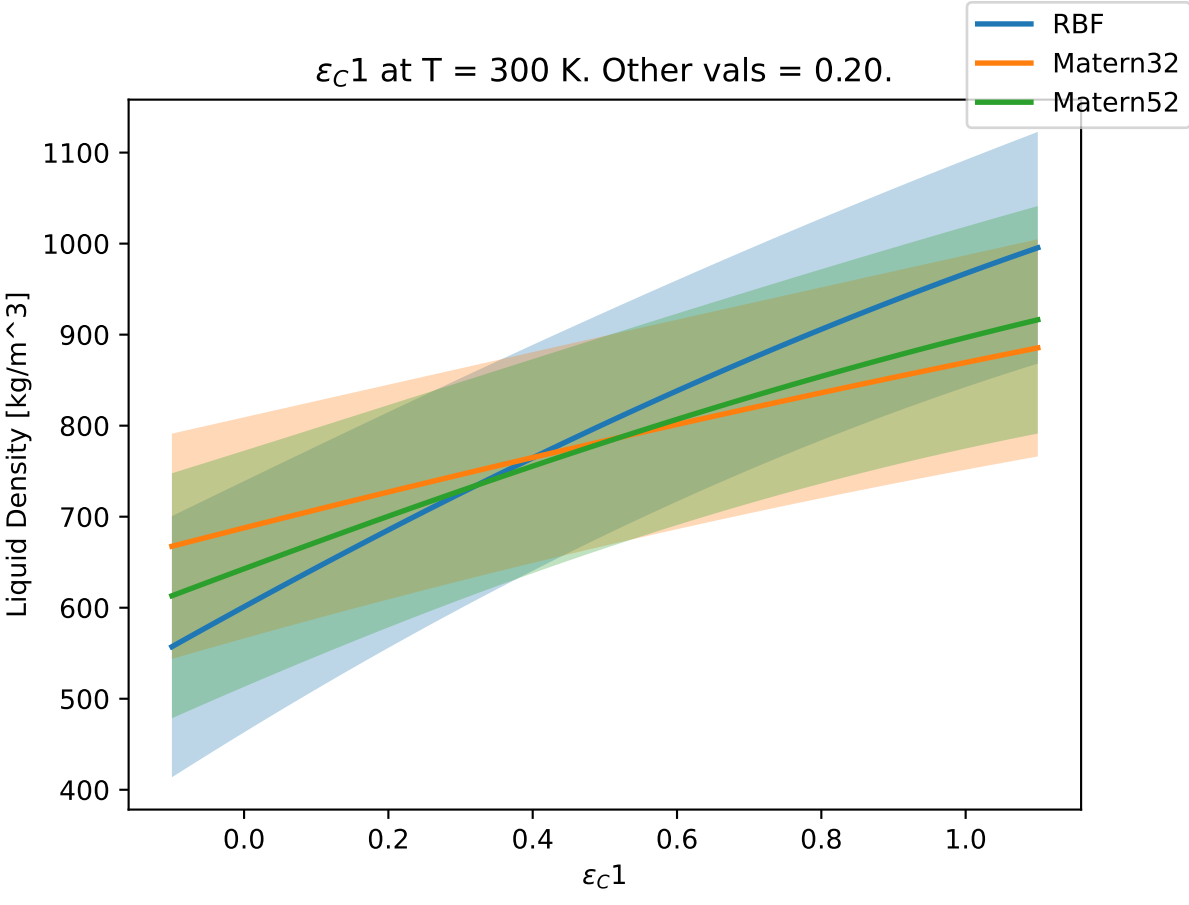

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

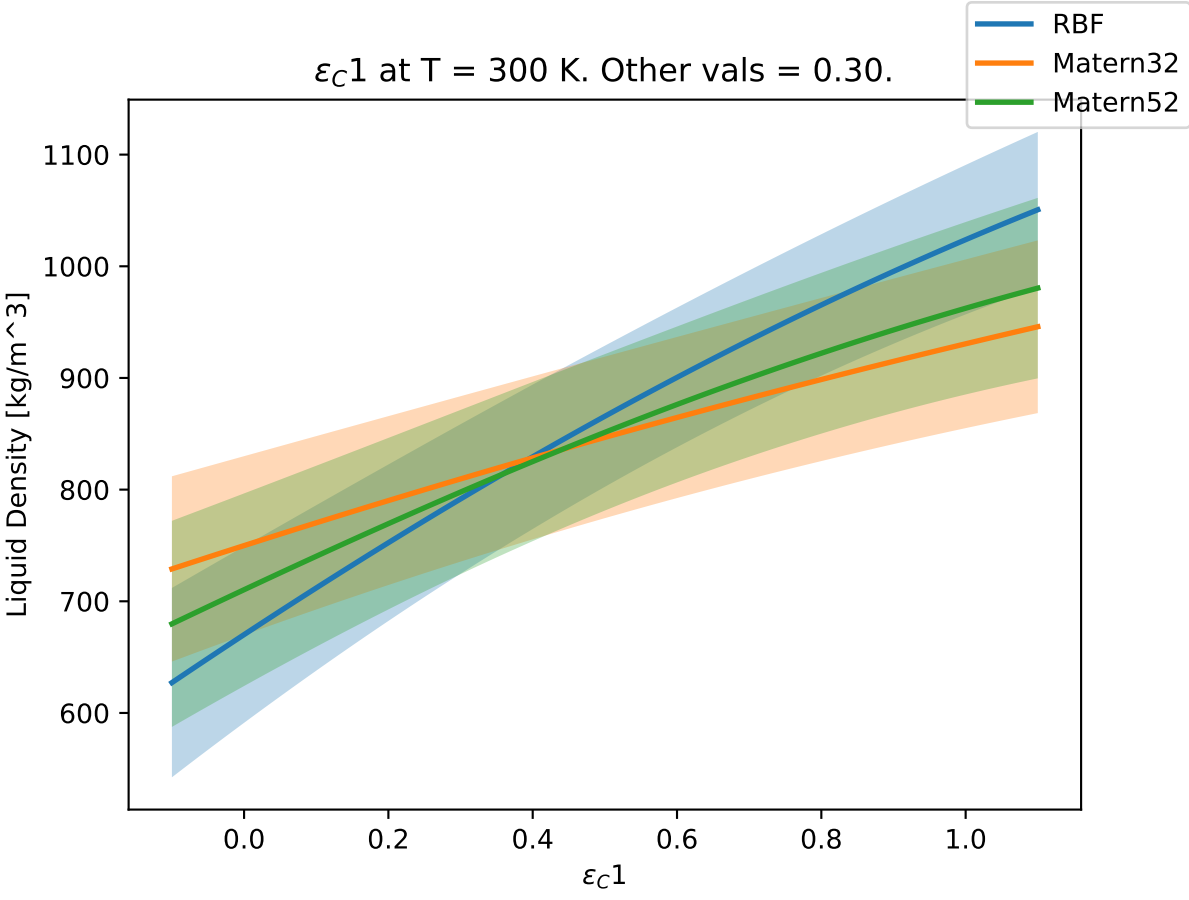

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

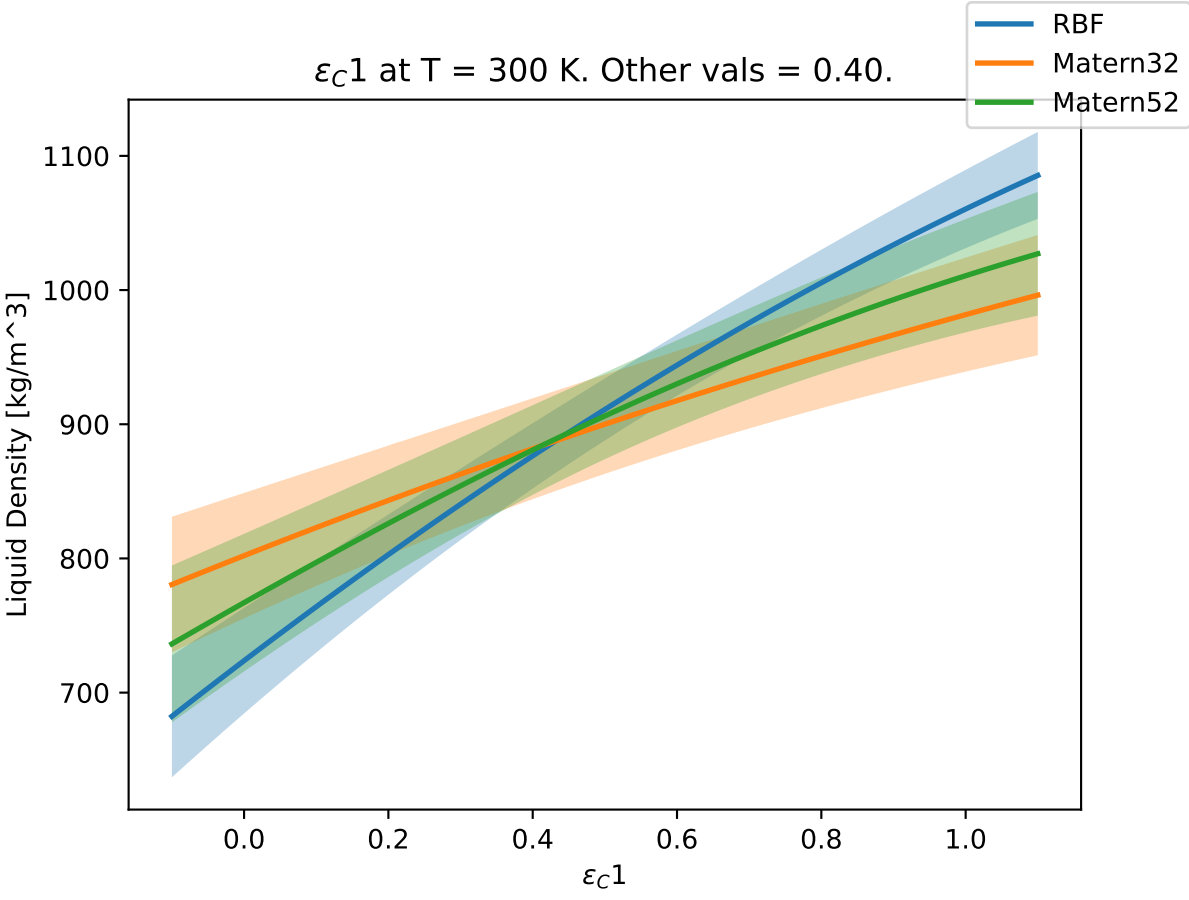

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

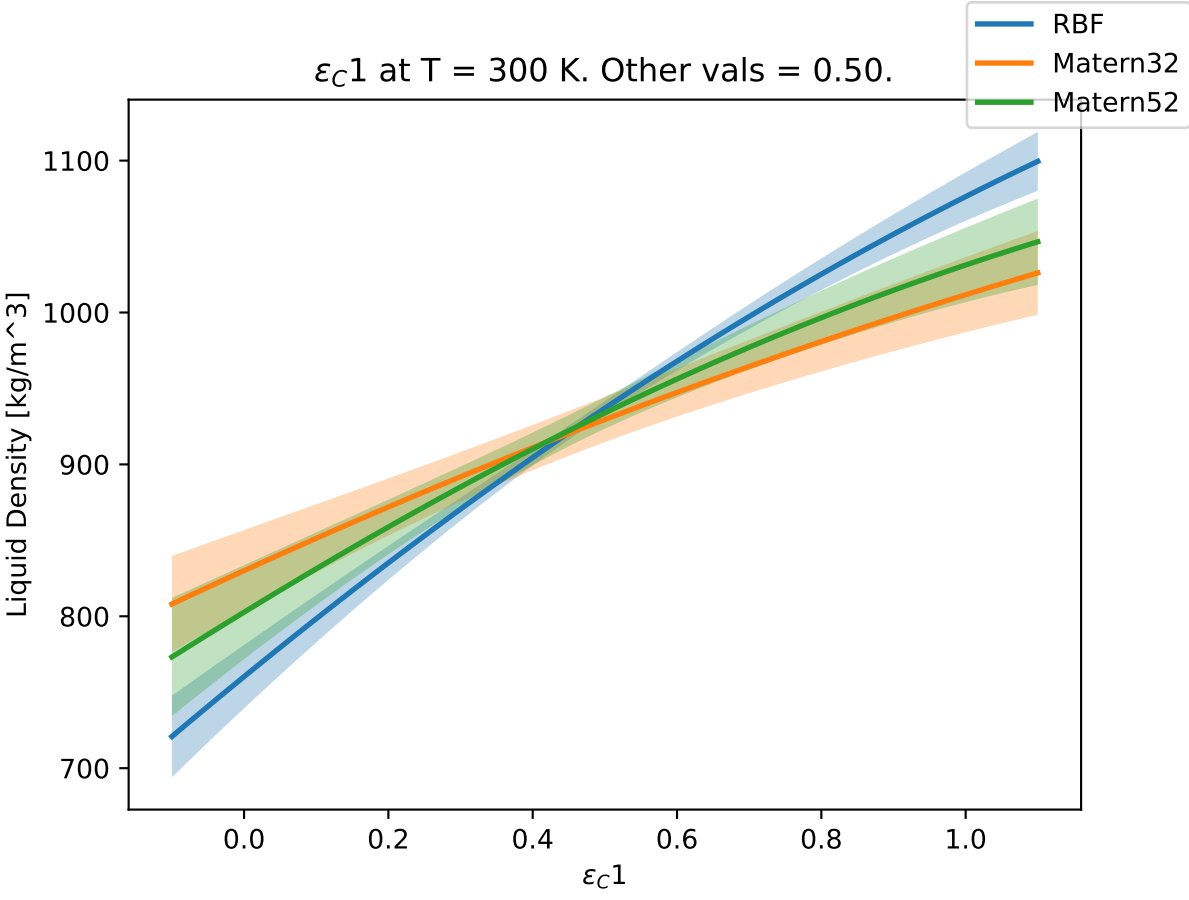

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

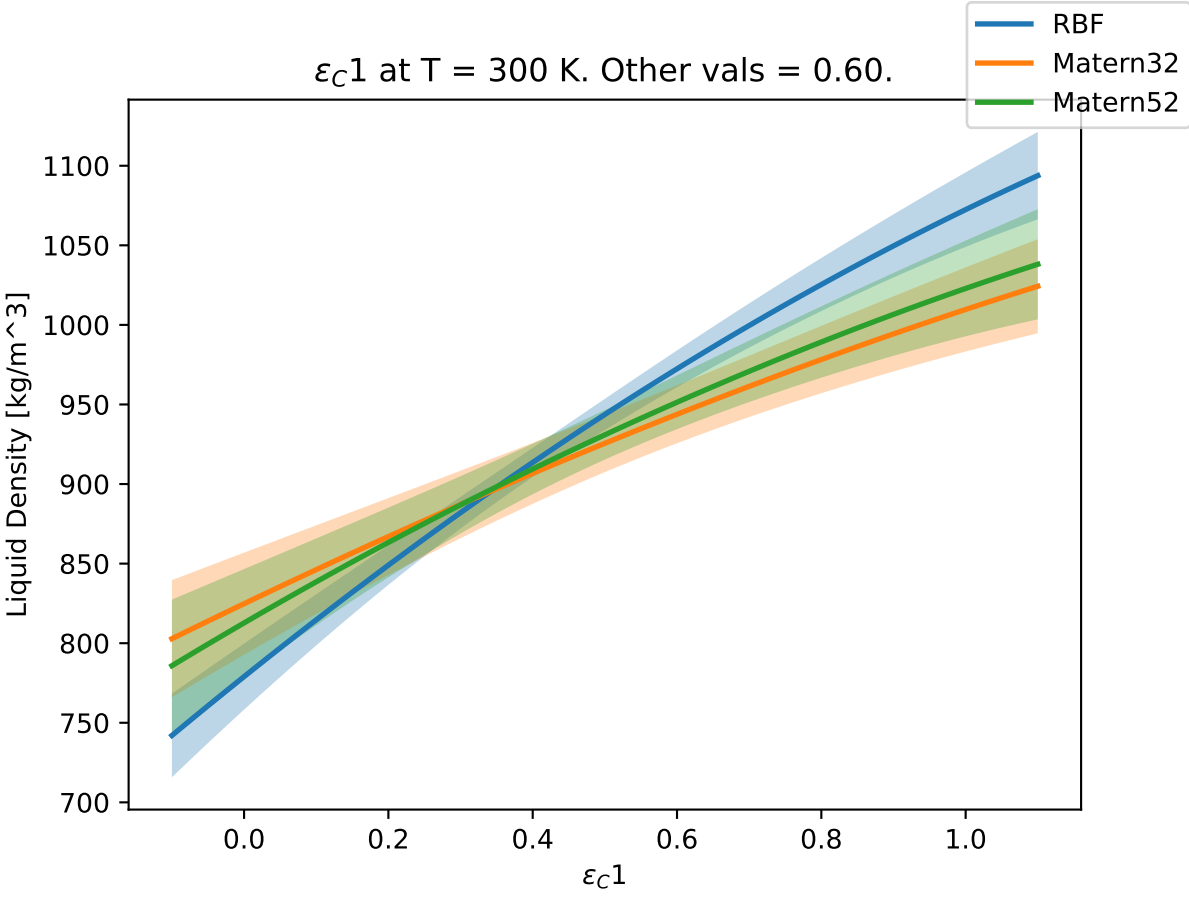

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

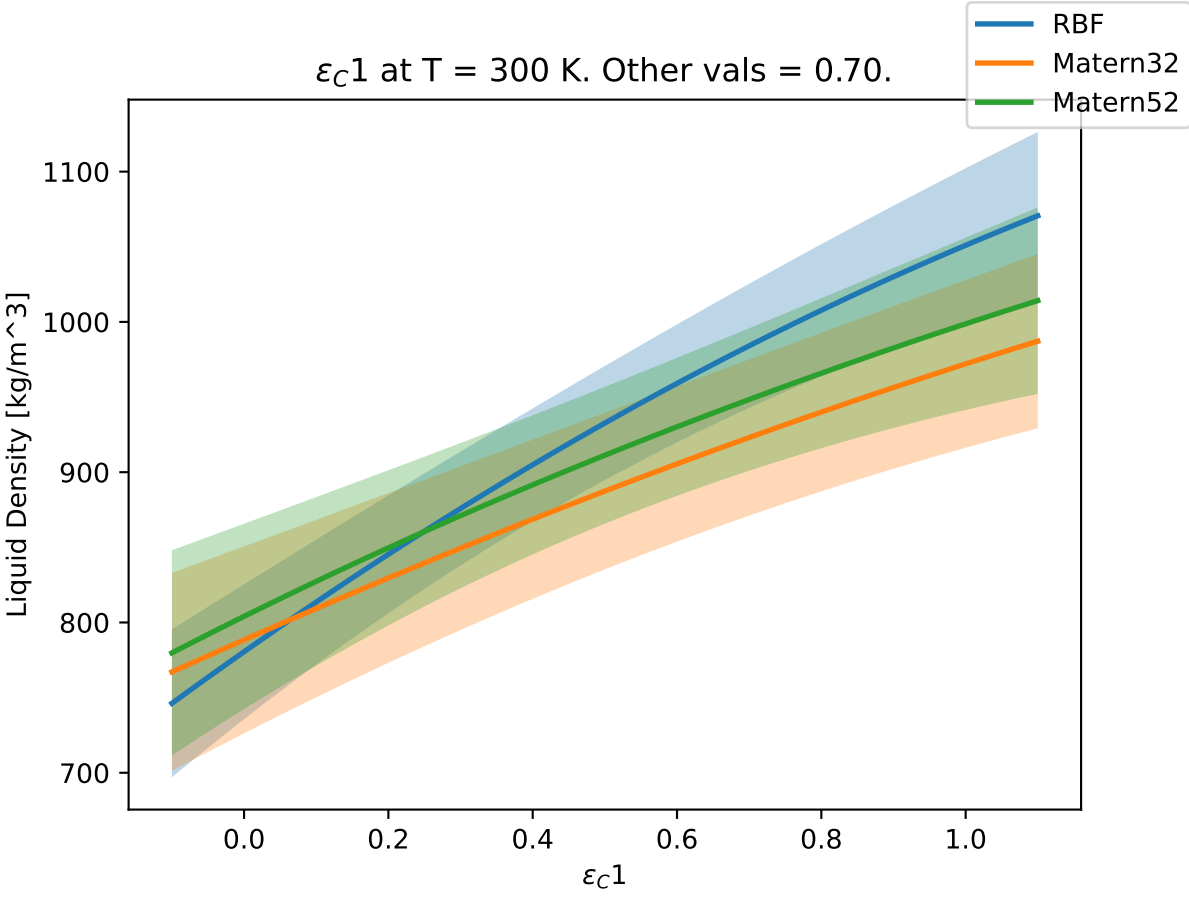

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
500
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

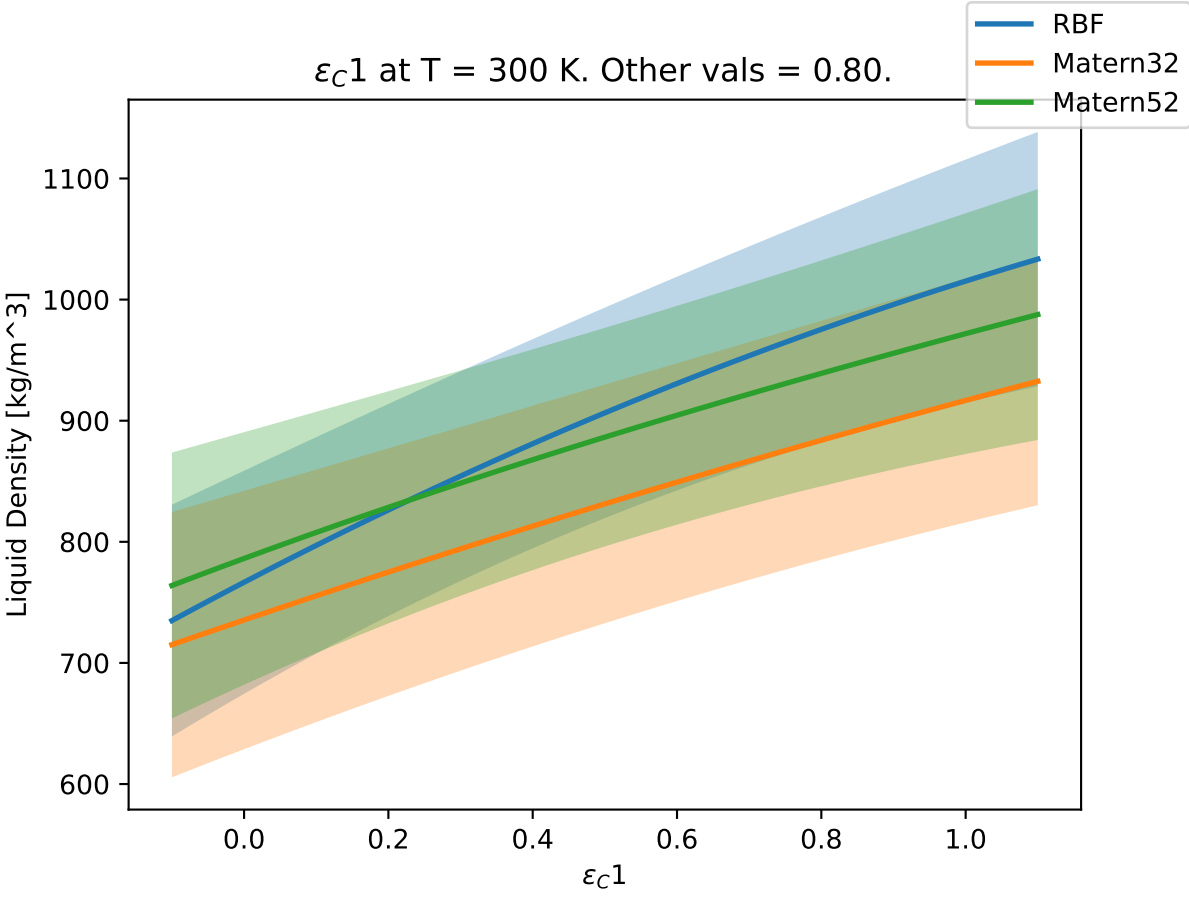

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

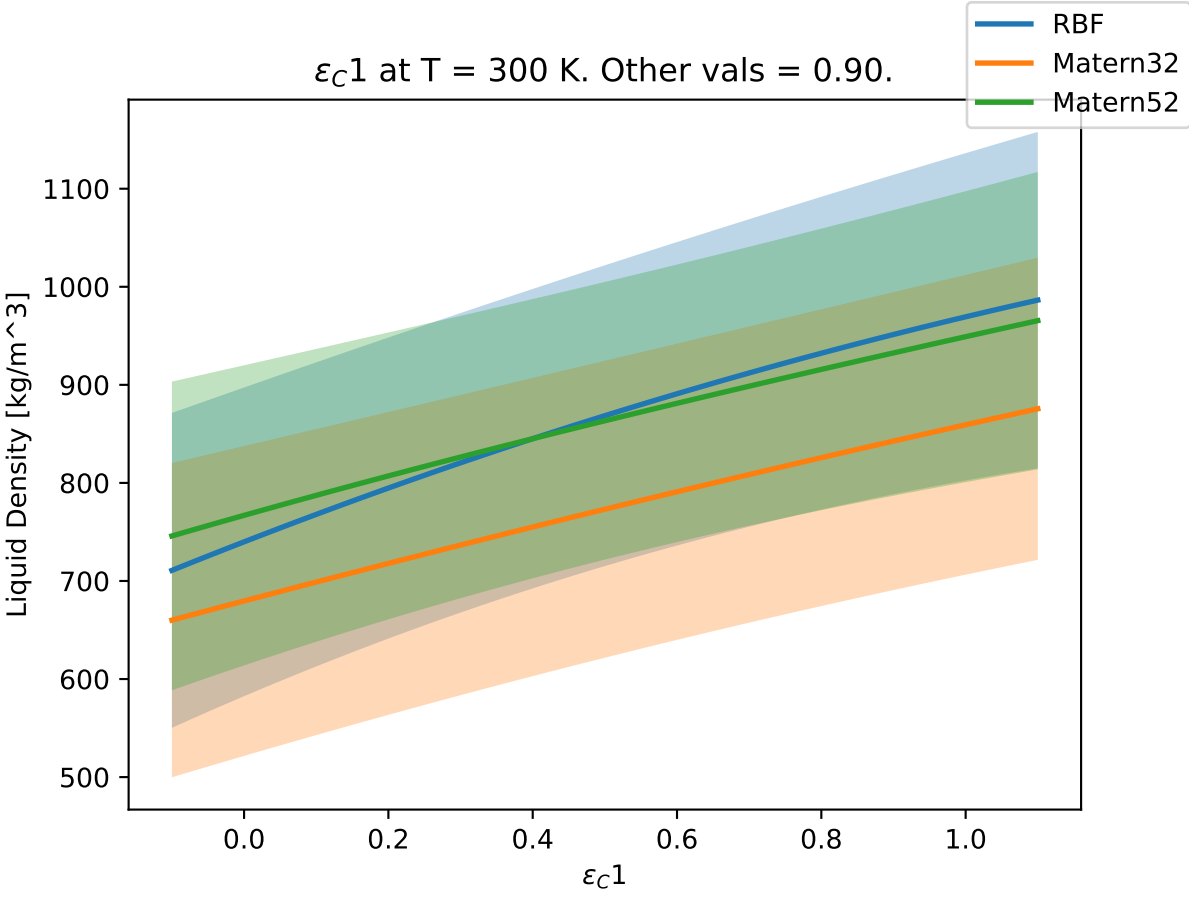

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

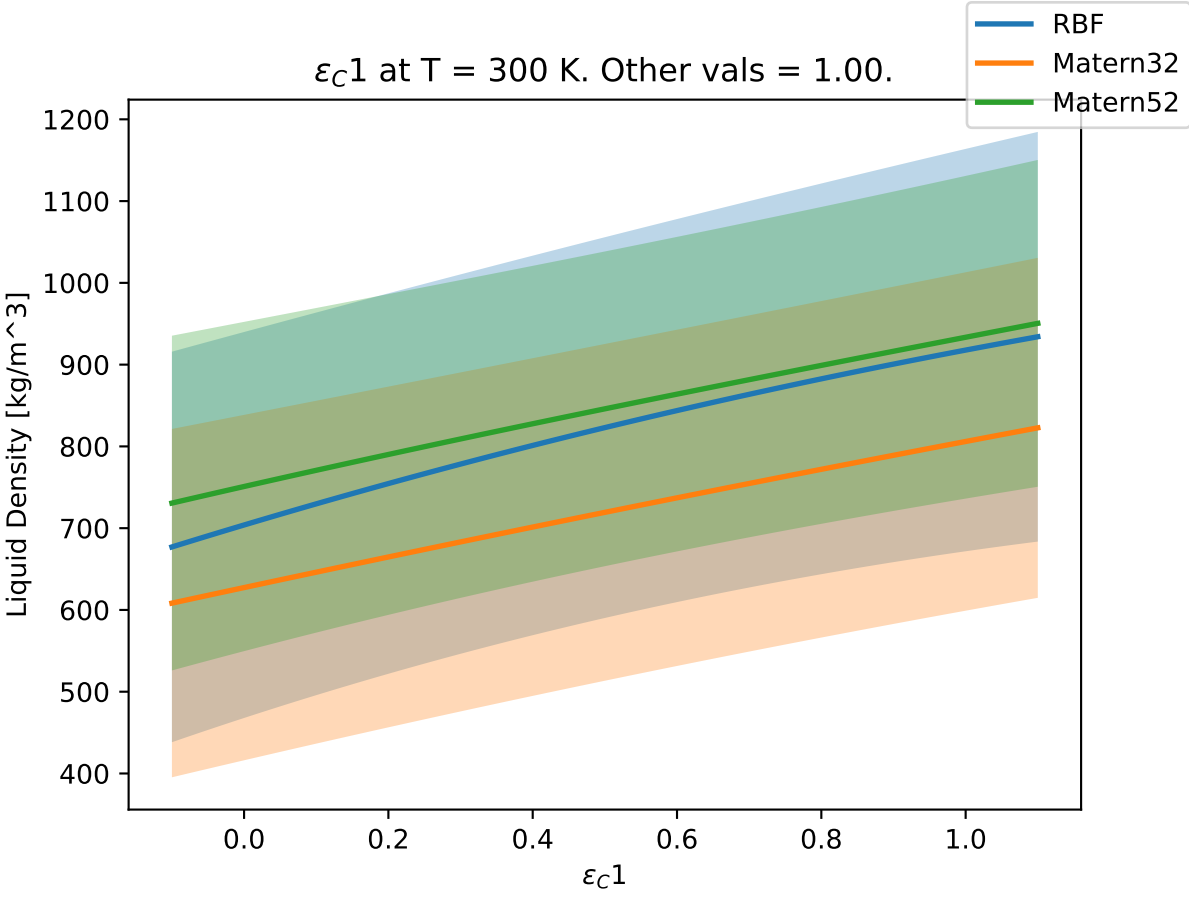

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

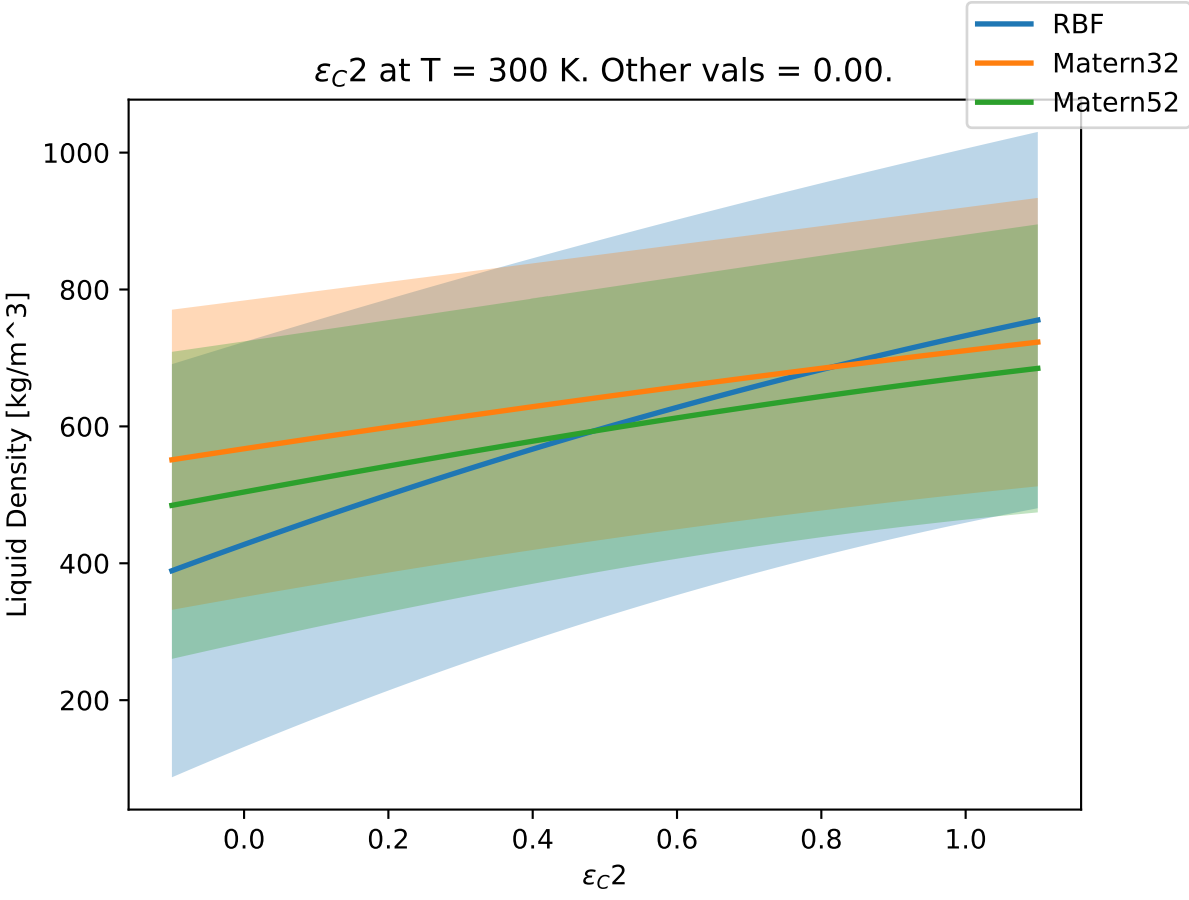

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1100
1050
1000
950
900
850
800
750
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

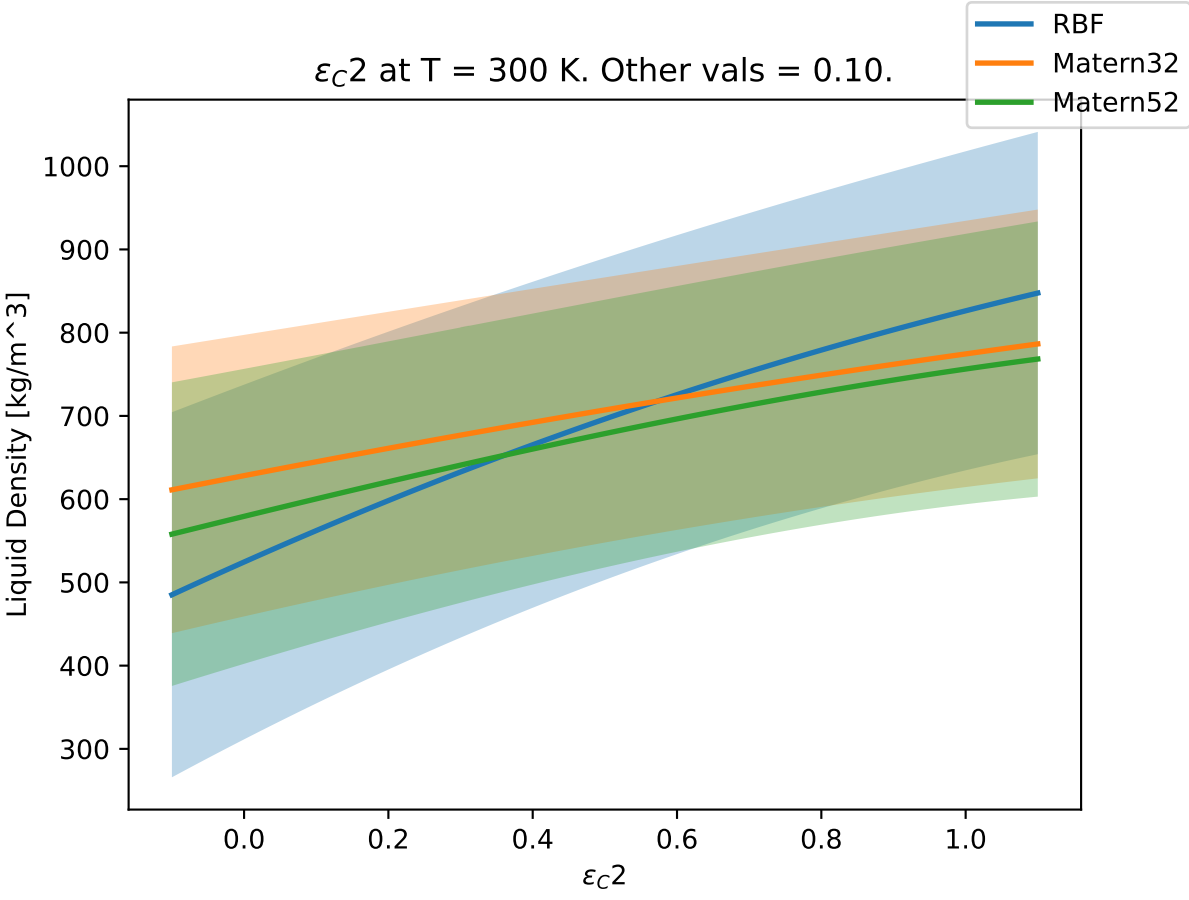

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

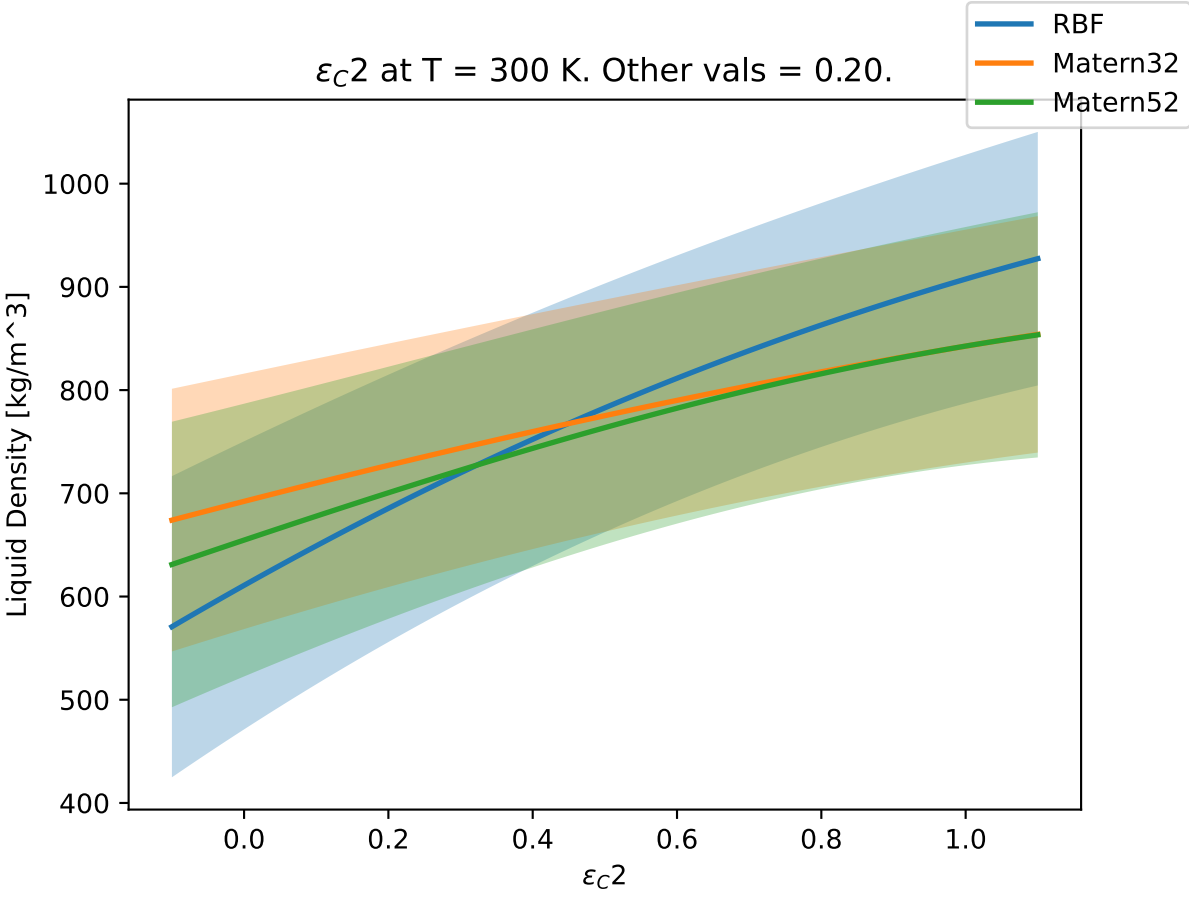

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

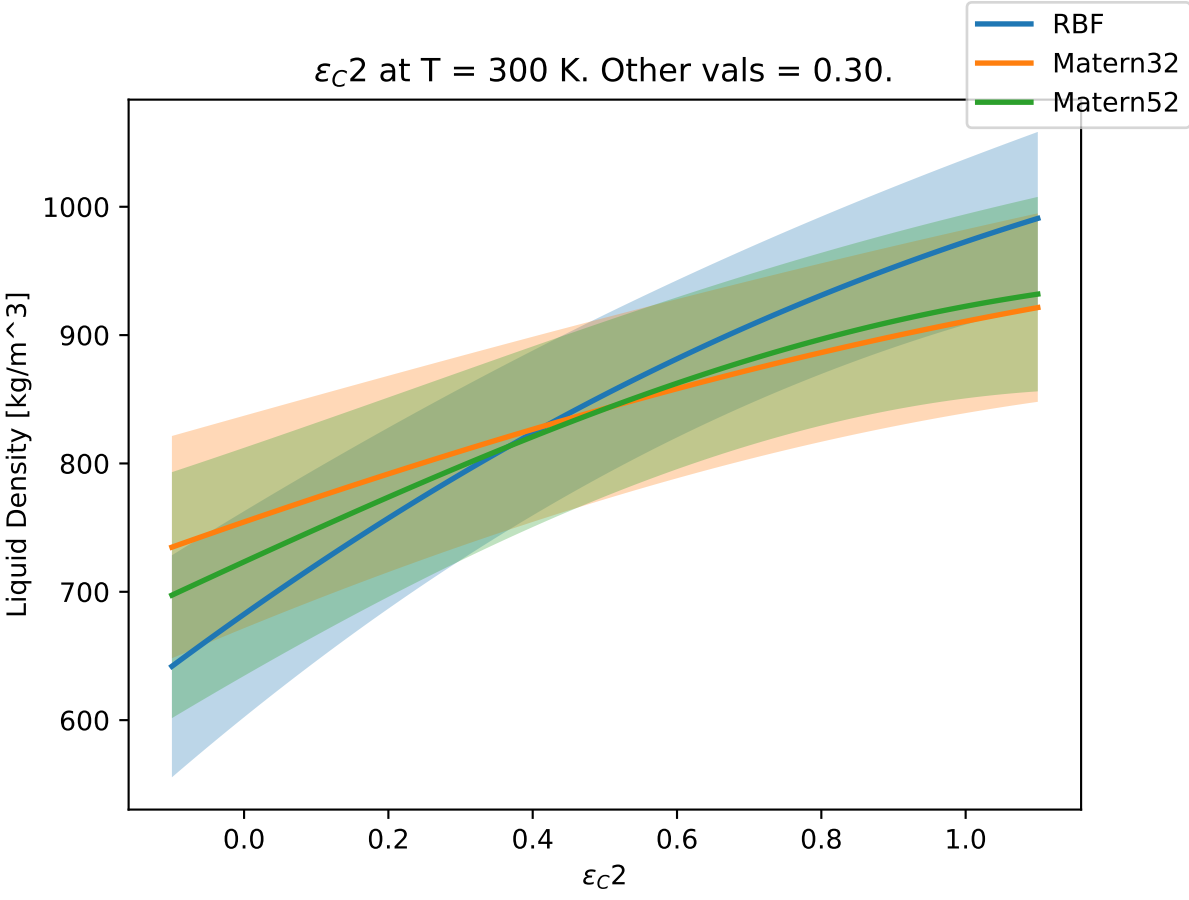

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

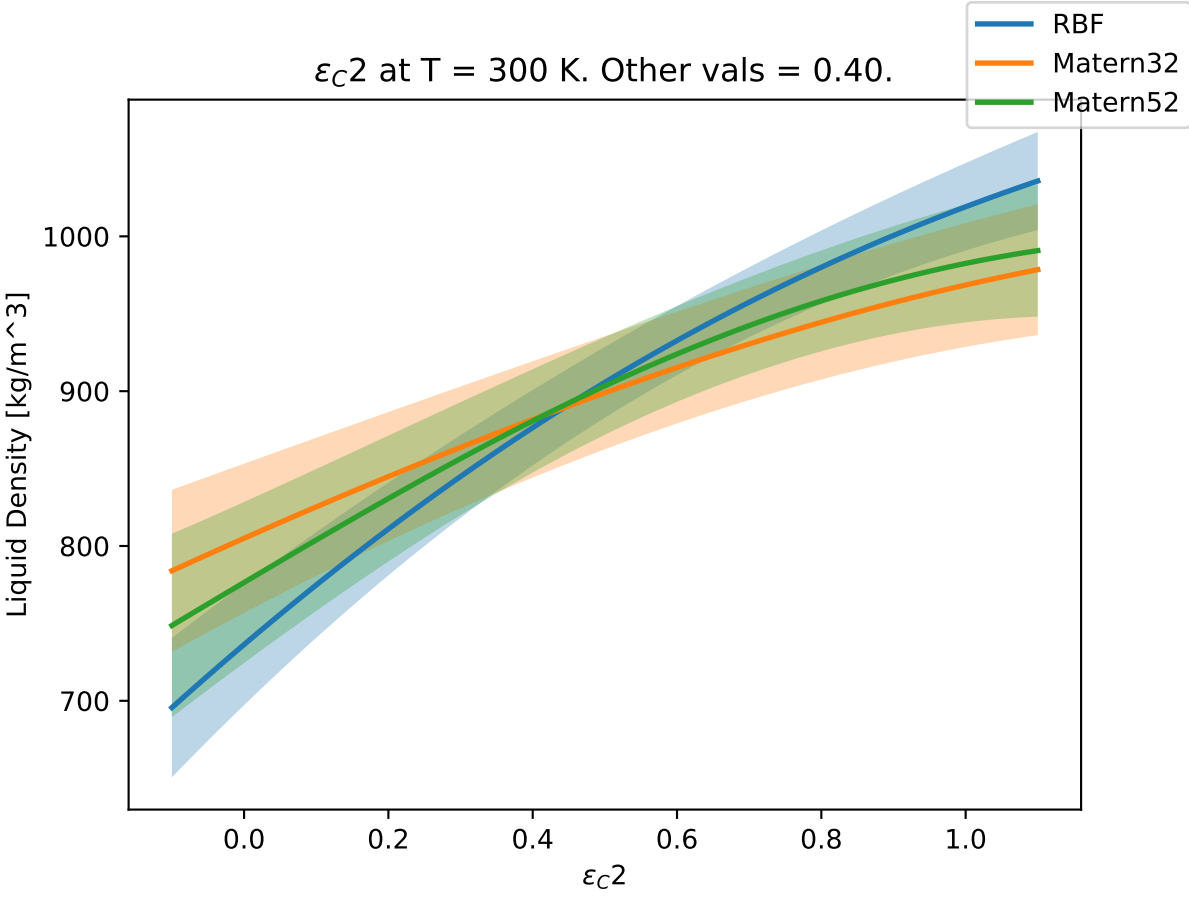

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

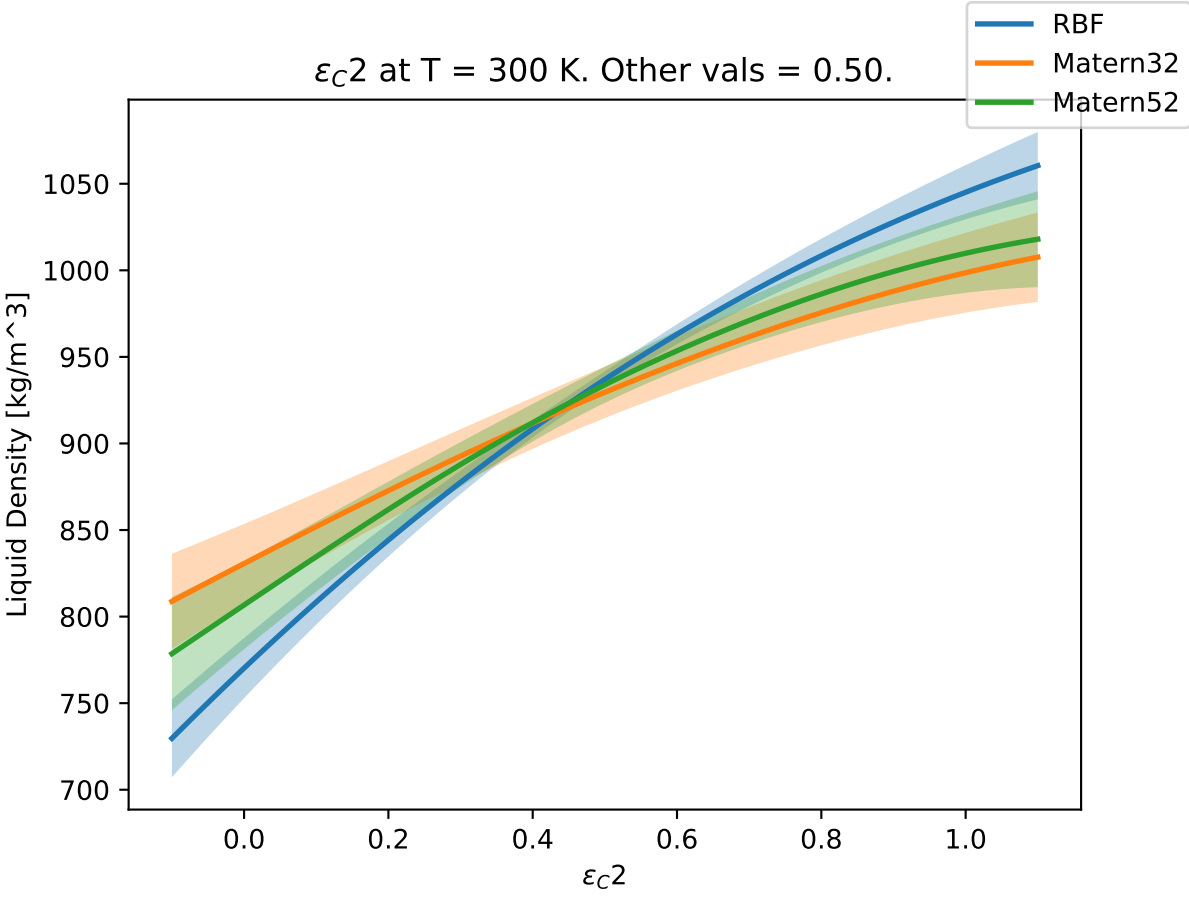

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

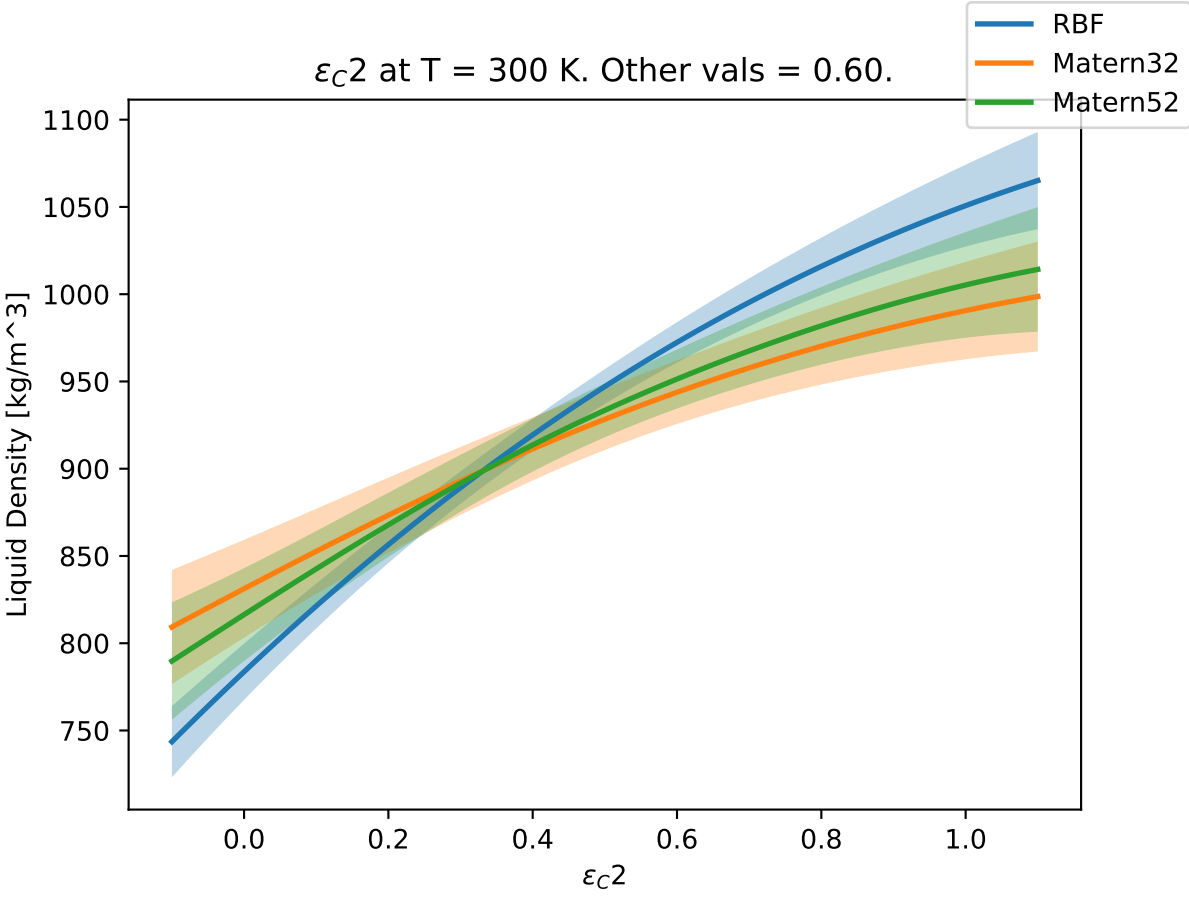

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1000
900
800
700
600
500
400
300
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

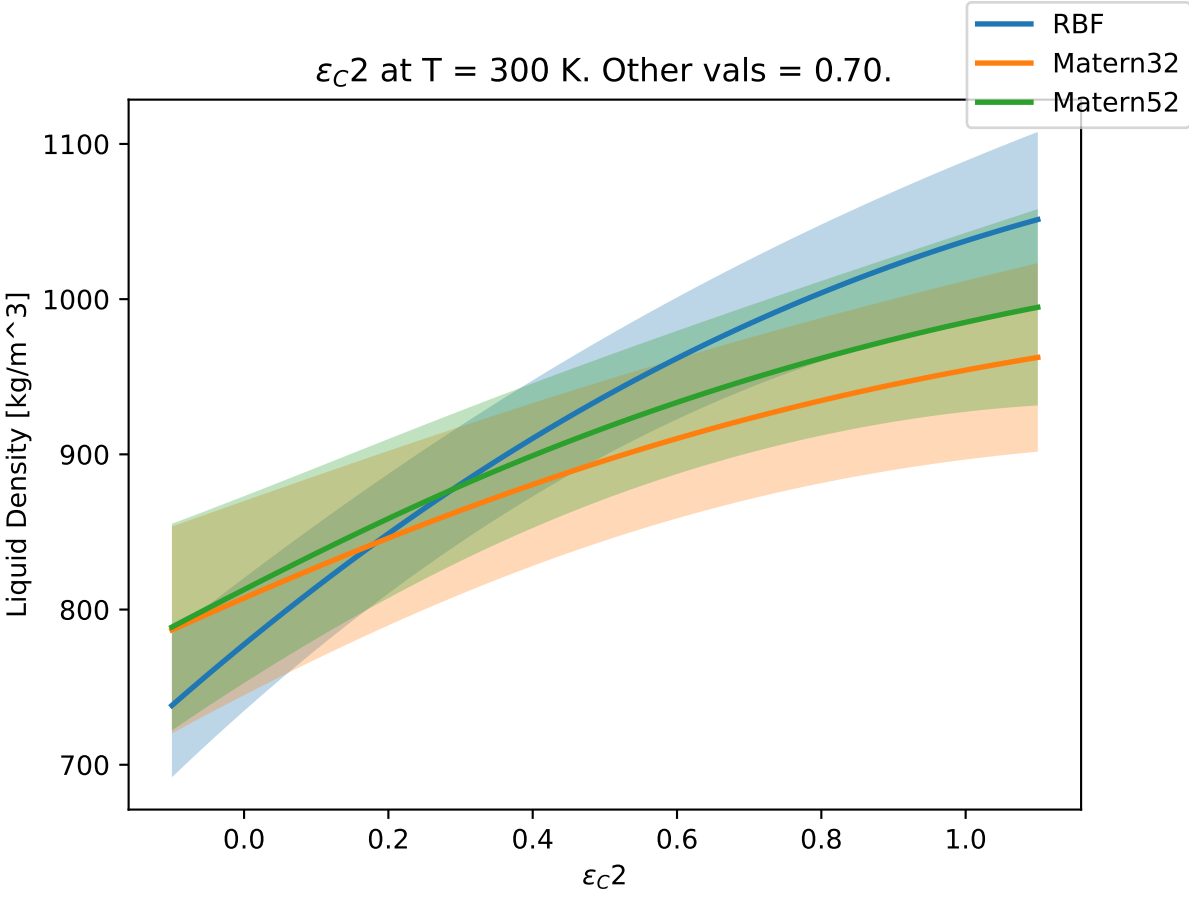

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1000
900
800
700
600
500
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

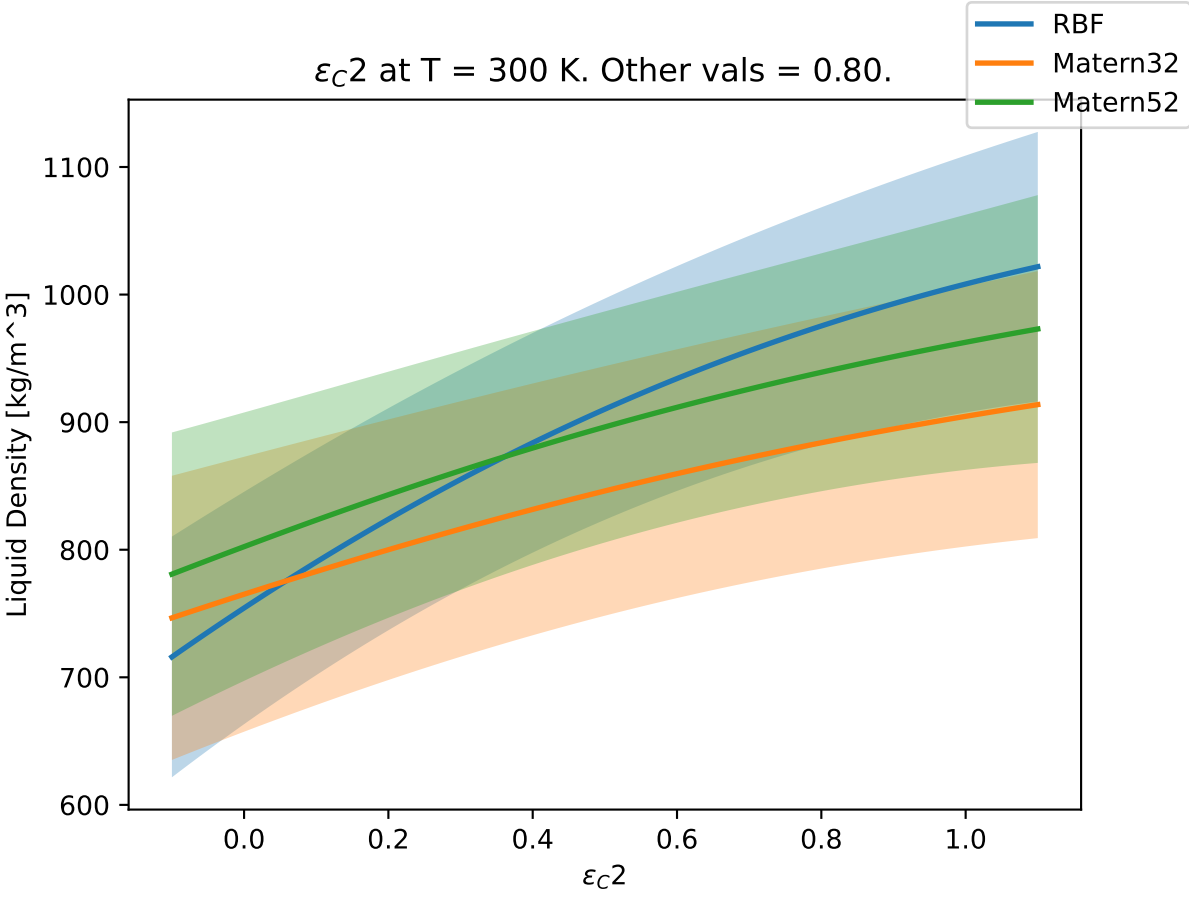

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

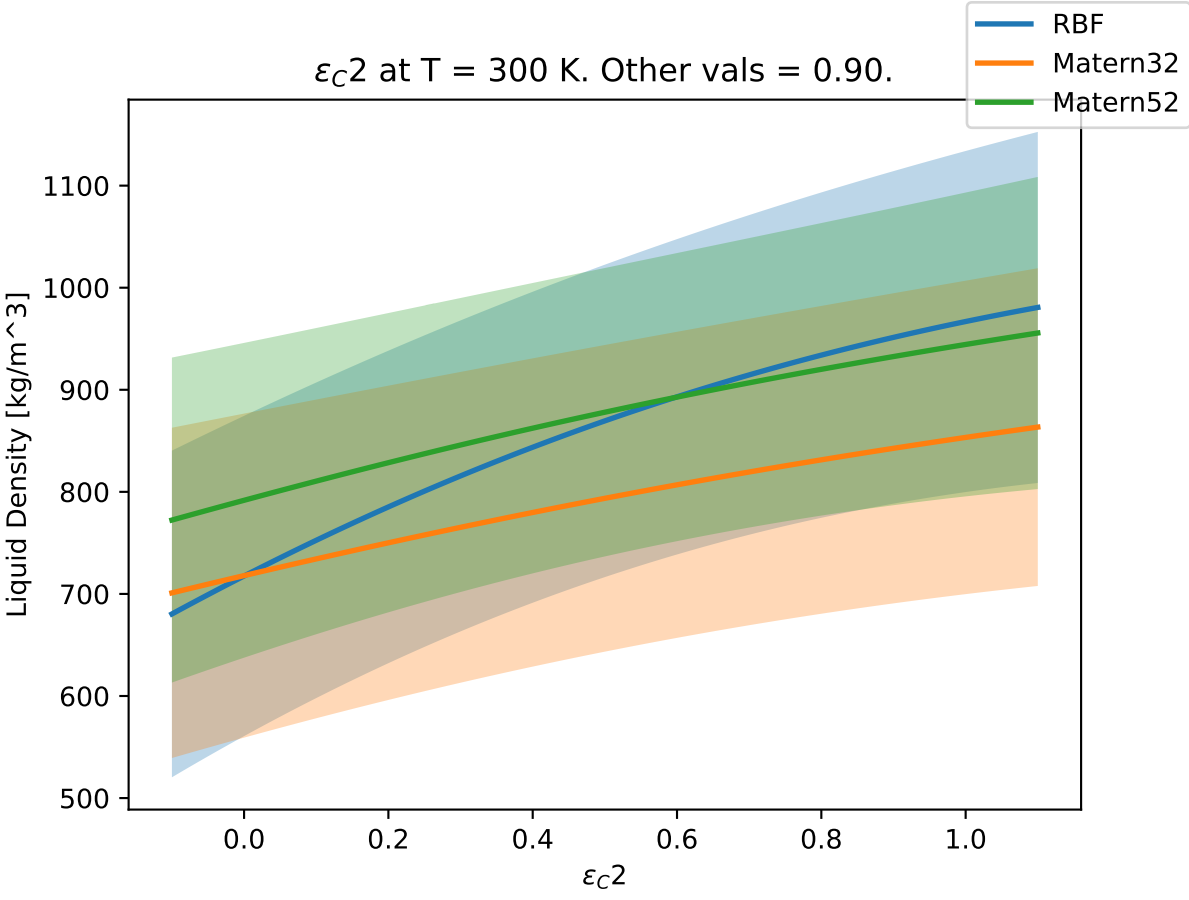

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

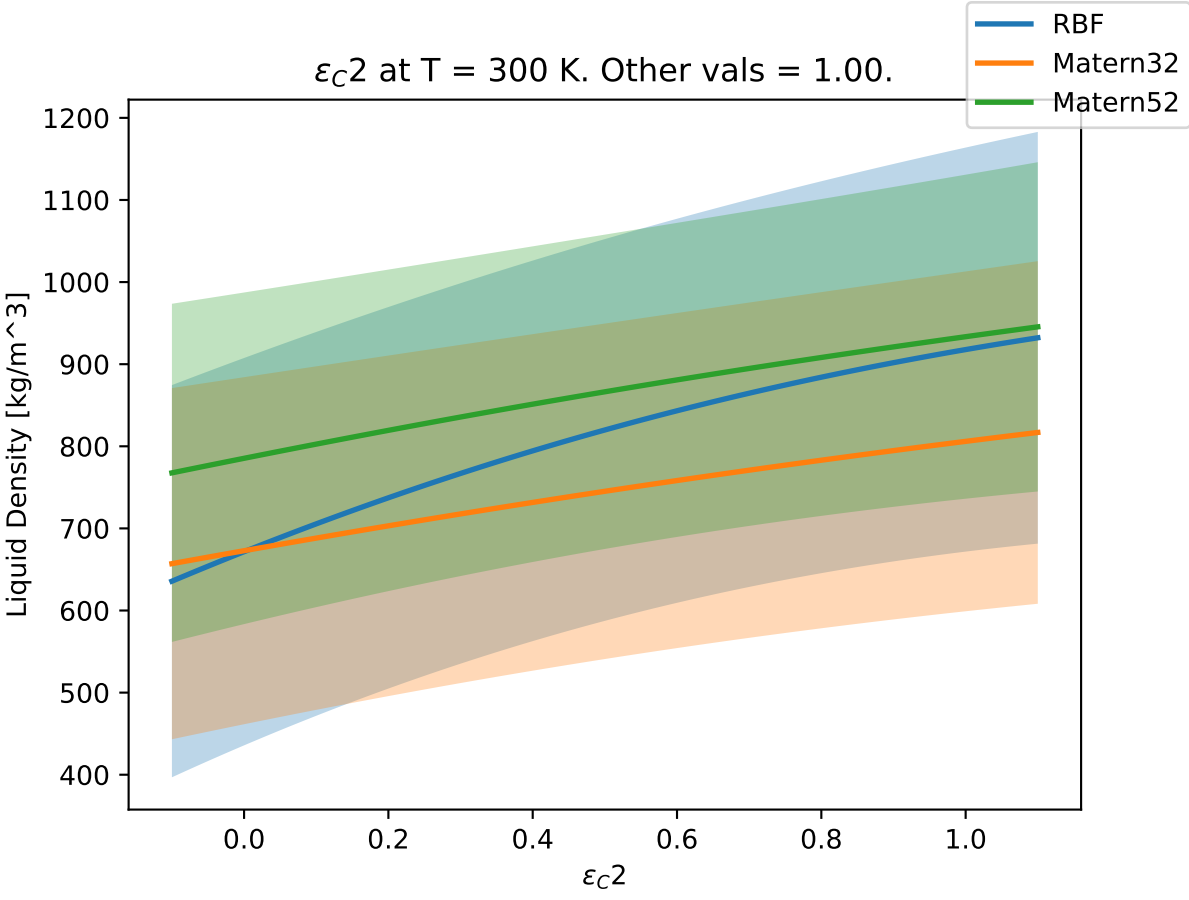

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1050
1000
950
900
850
800
750
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

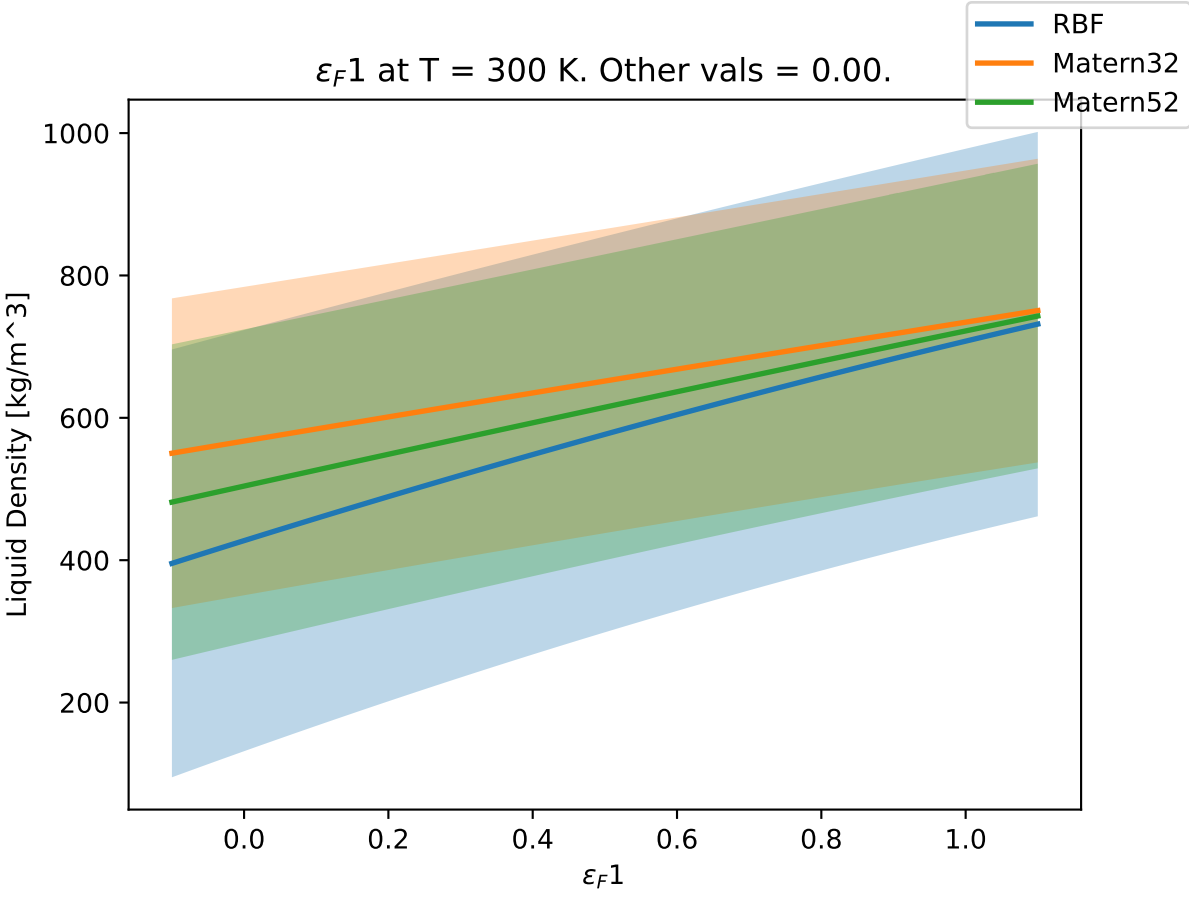

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1100
1050
1000
950
900
850
800
750
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

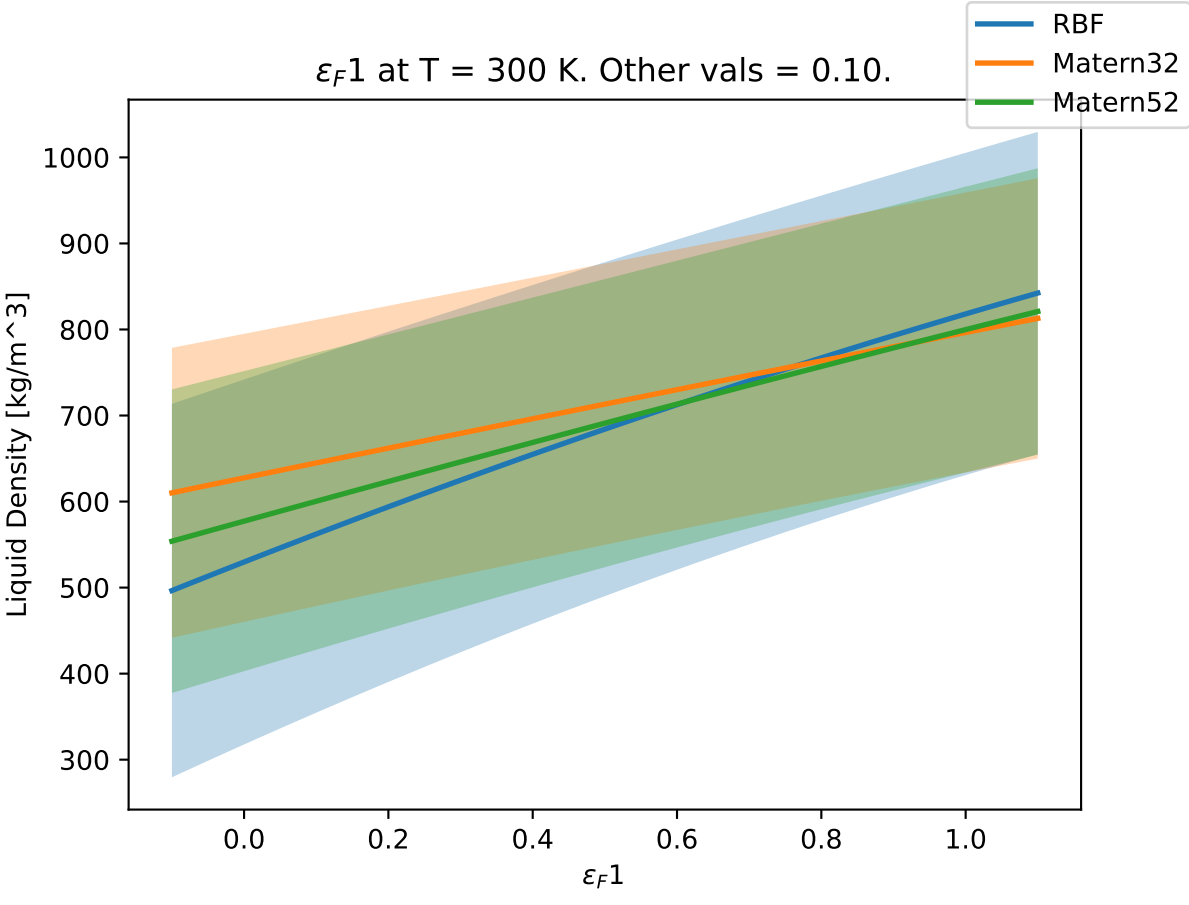

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

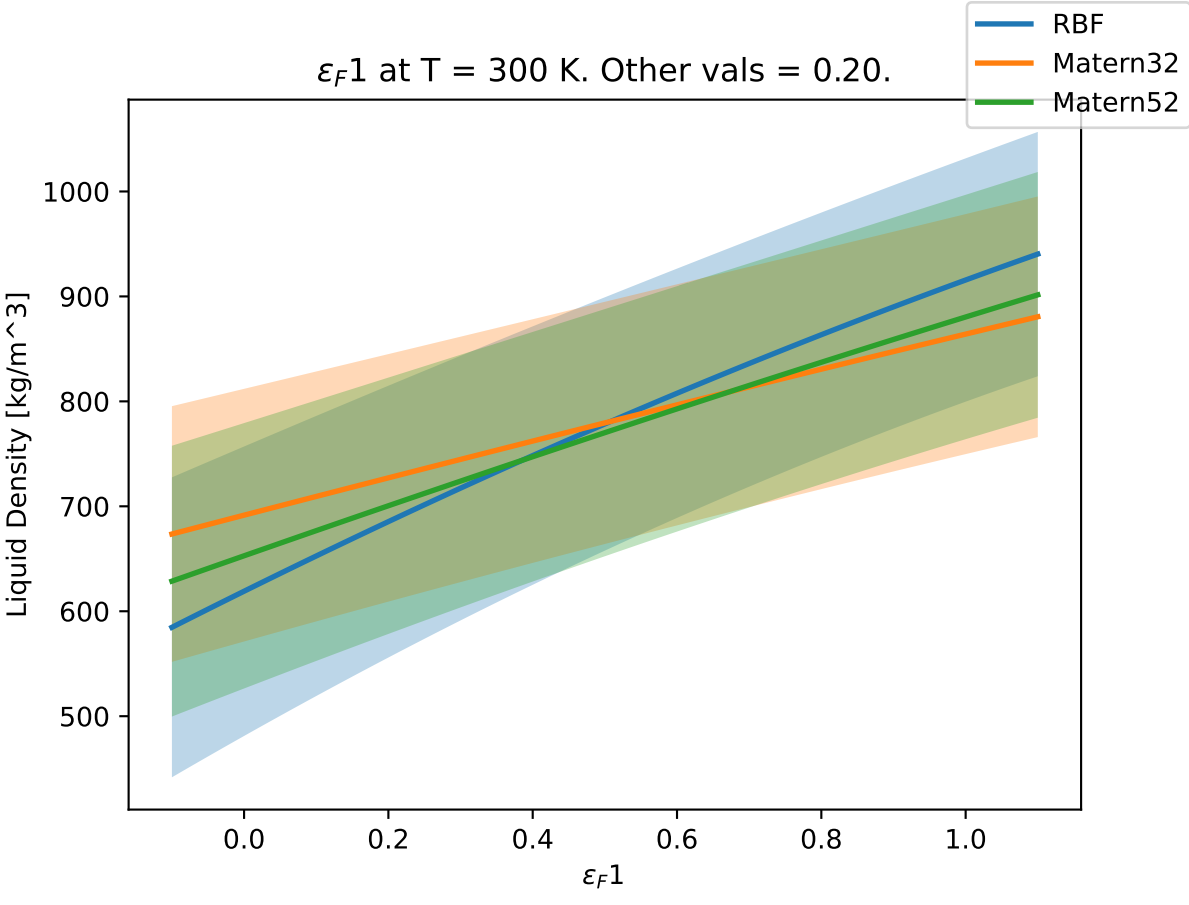

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

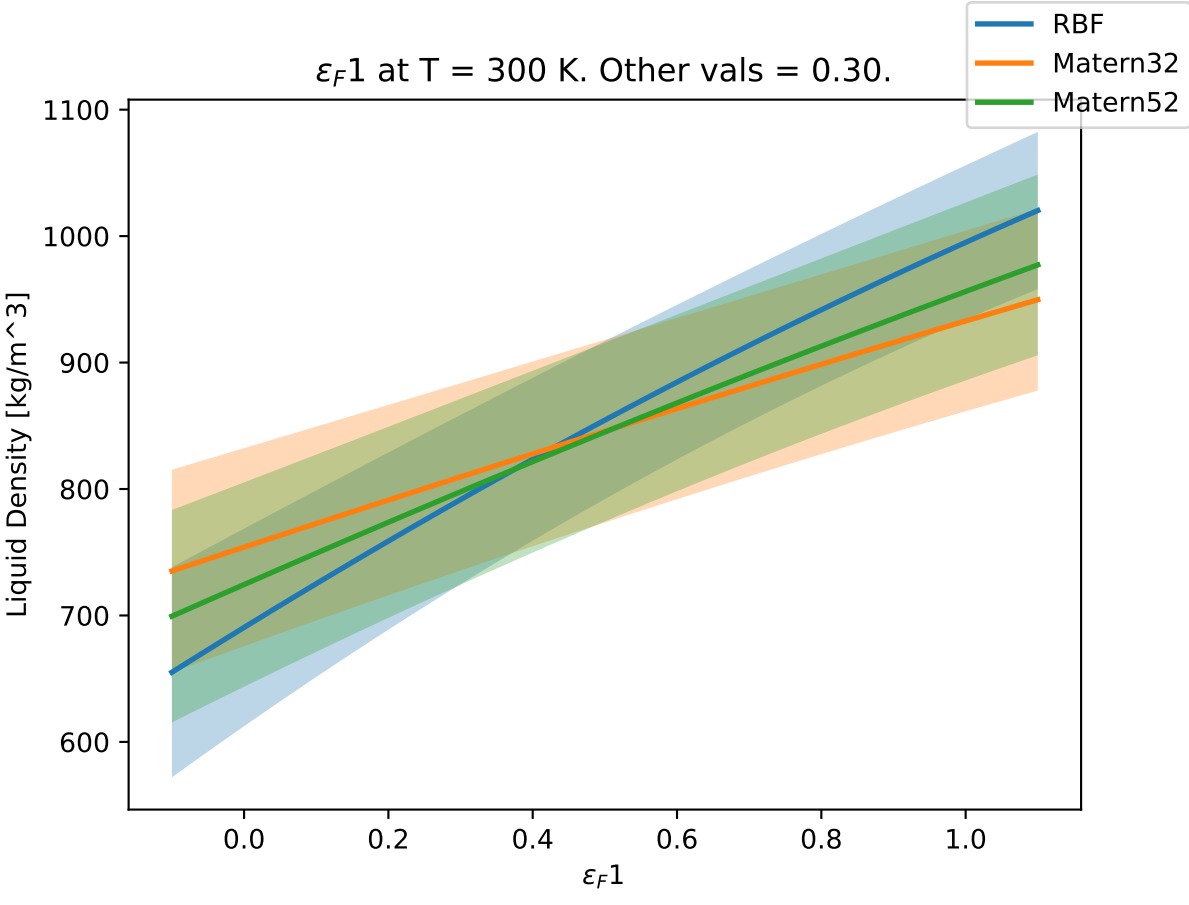

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

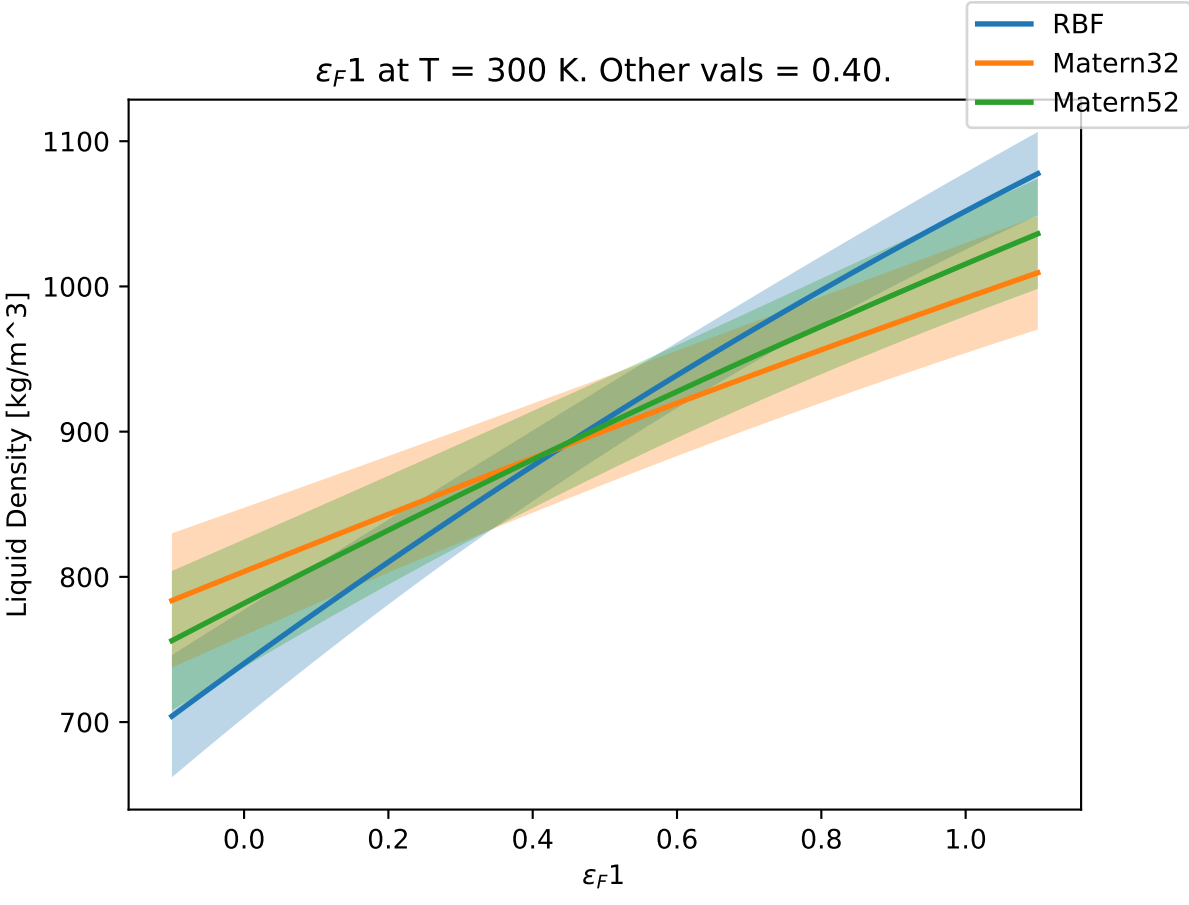

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

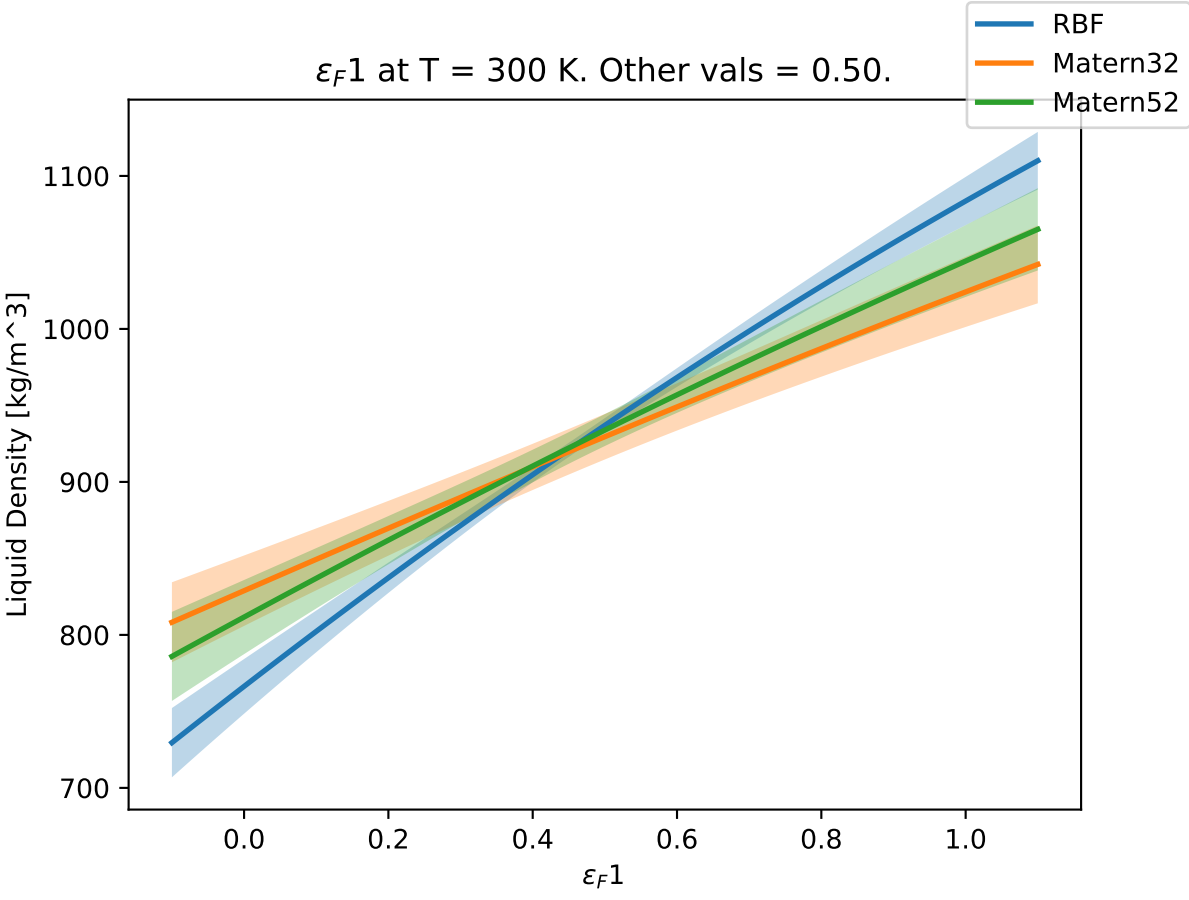

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
1000
800
600
400
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

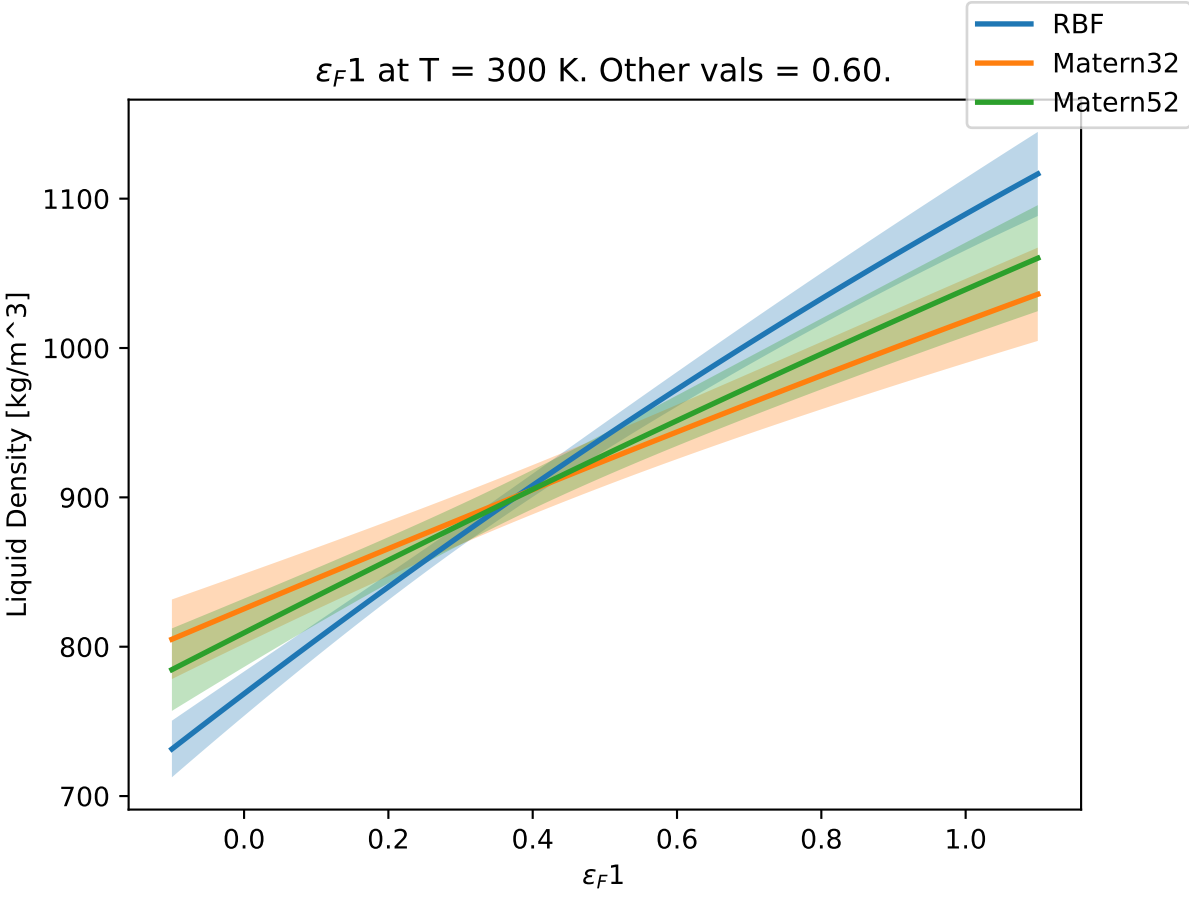

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.10.
Liquid Density [kg/m^3]
1000
900
800
700
600
500
400
300
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

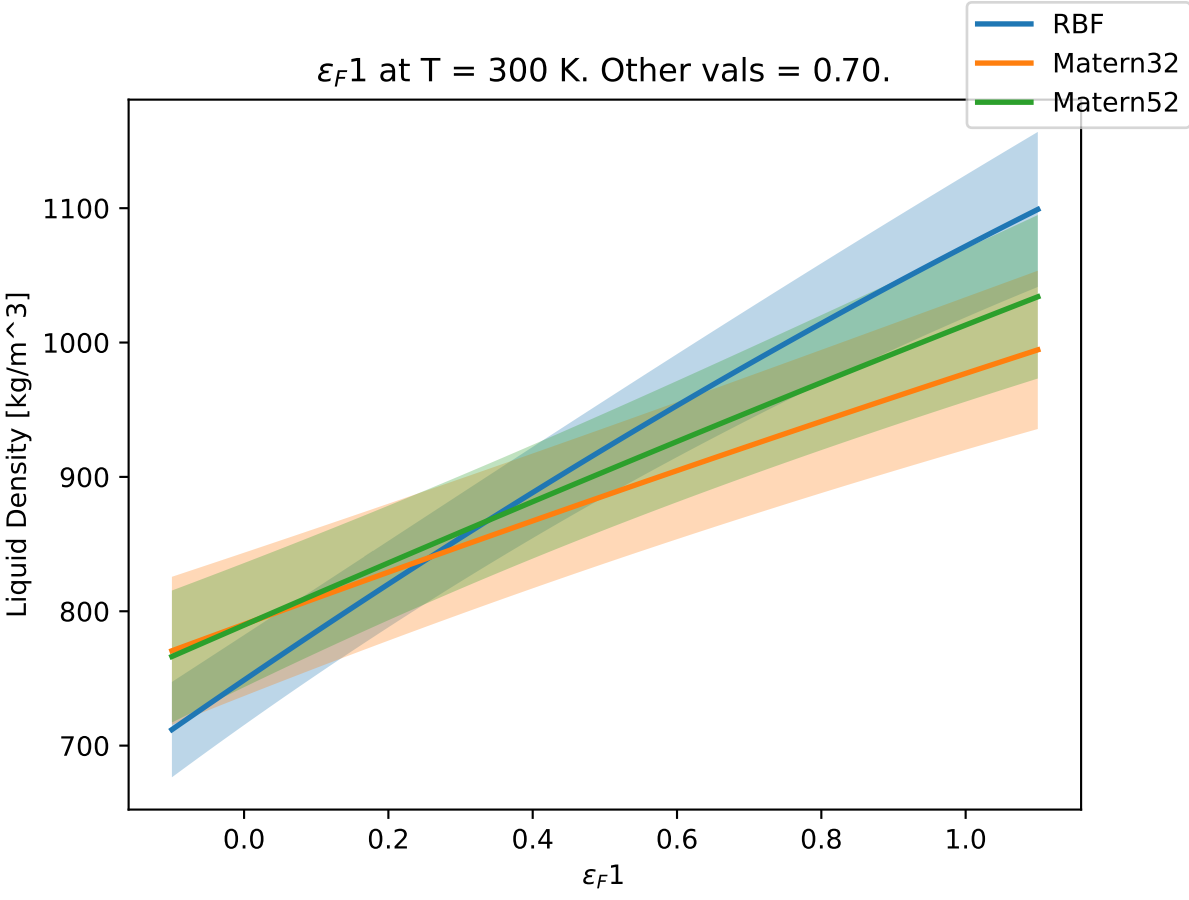

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

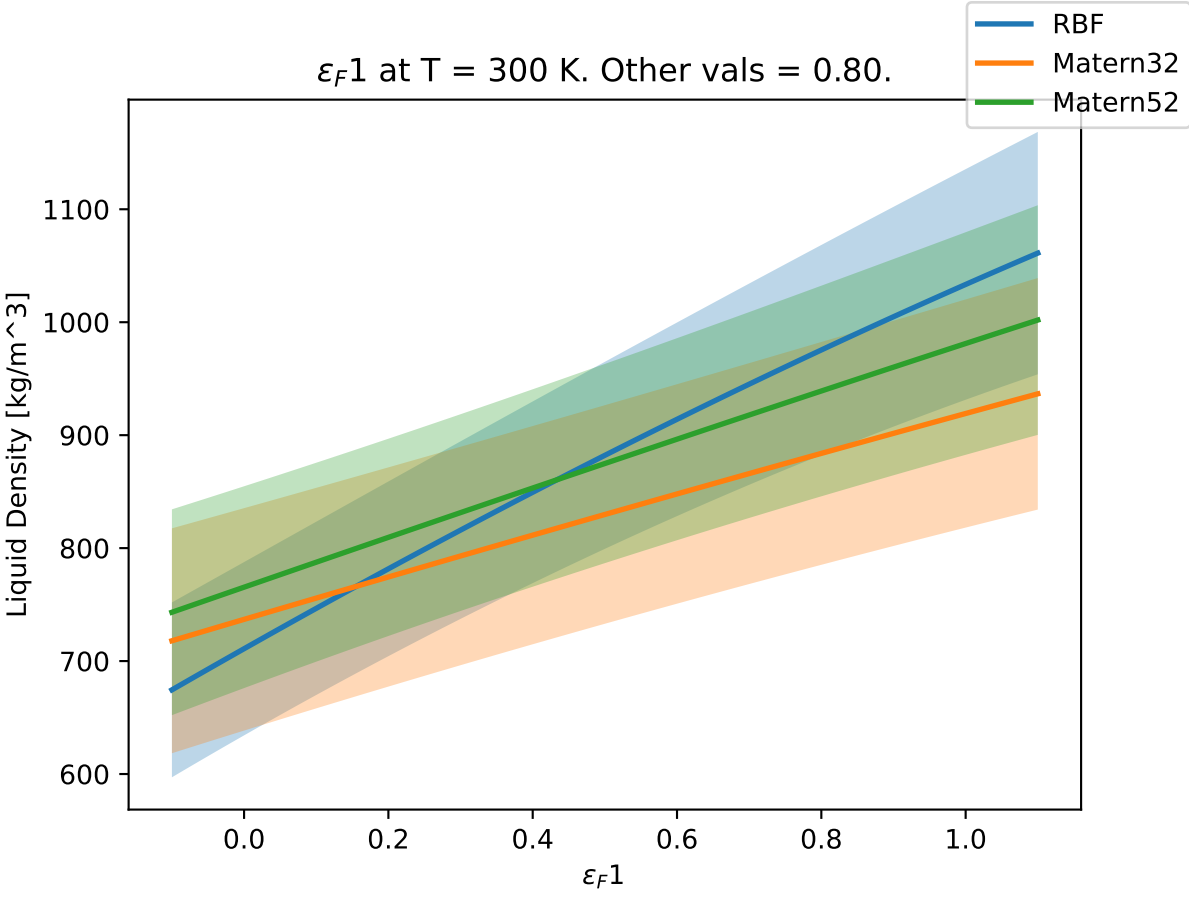

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.30.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

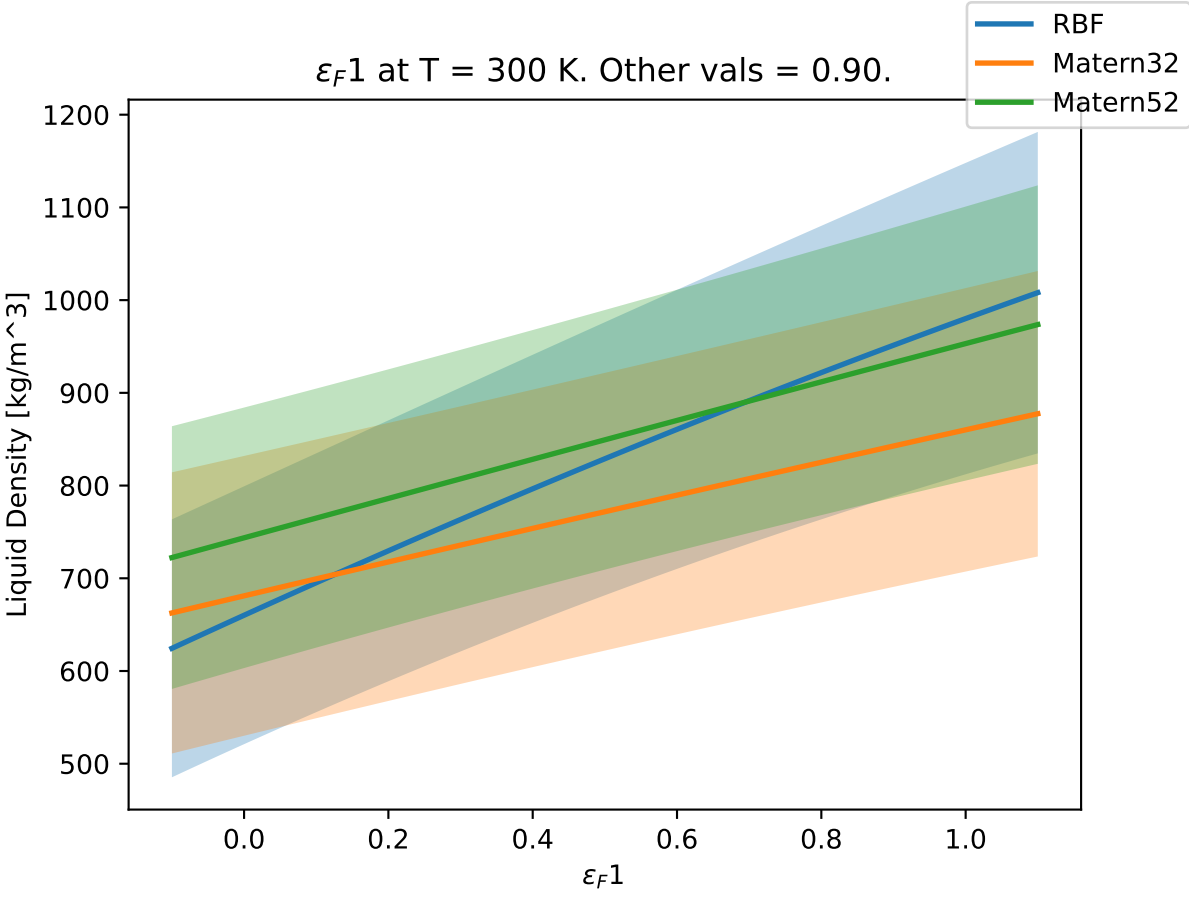

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.40.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

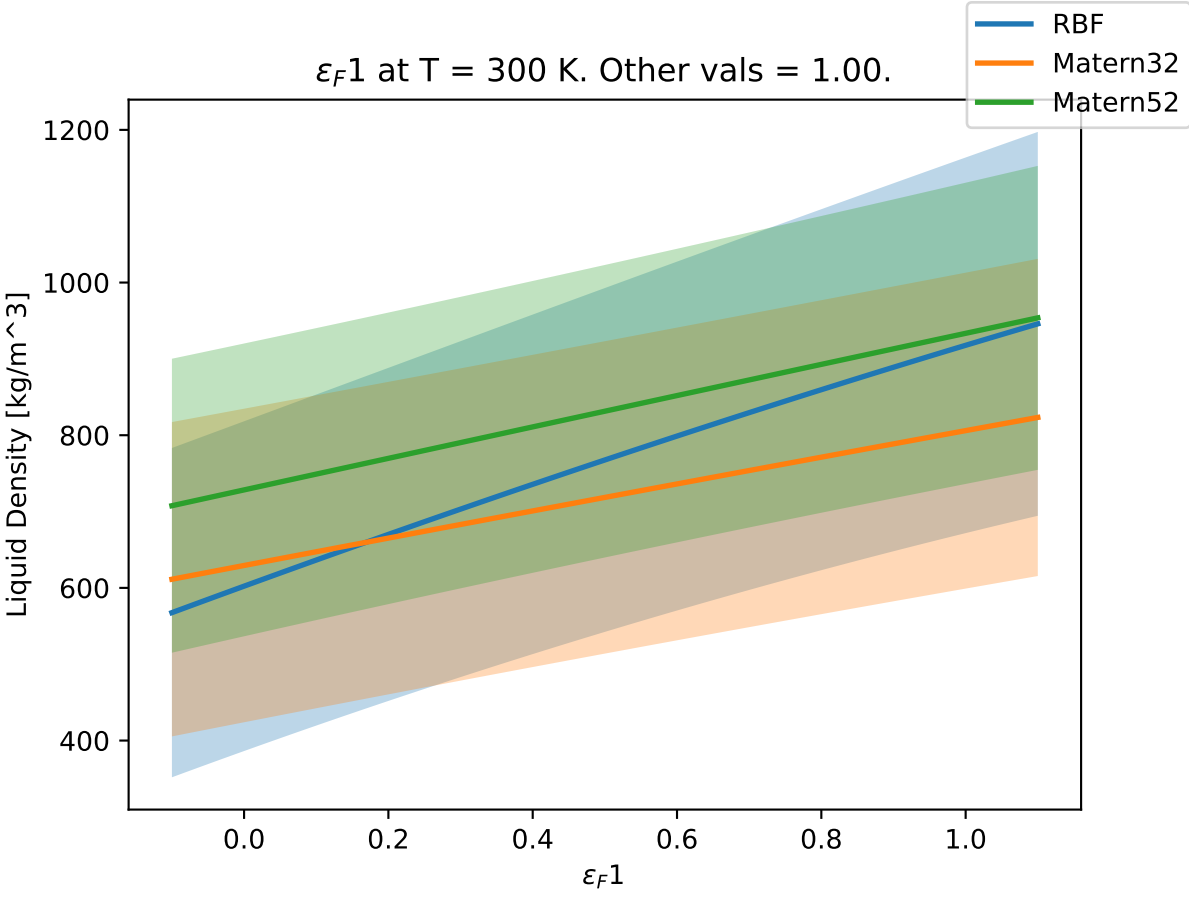

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

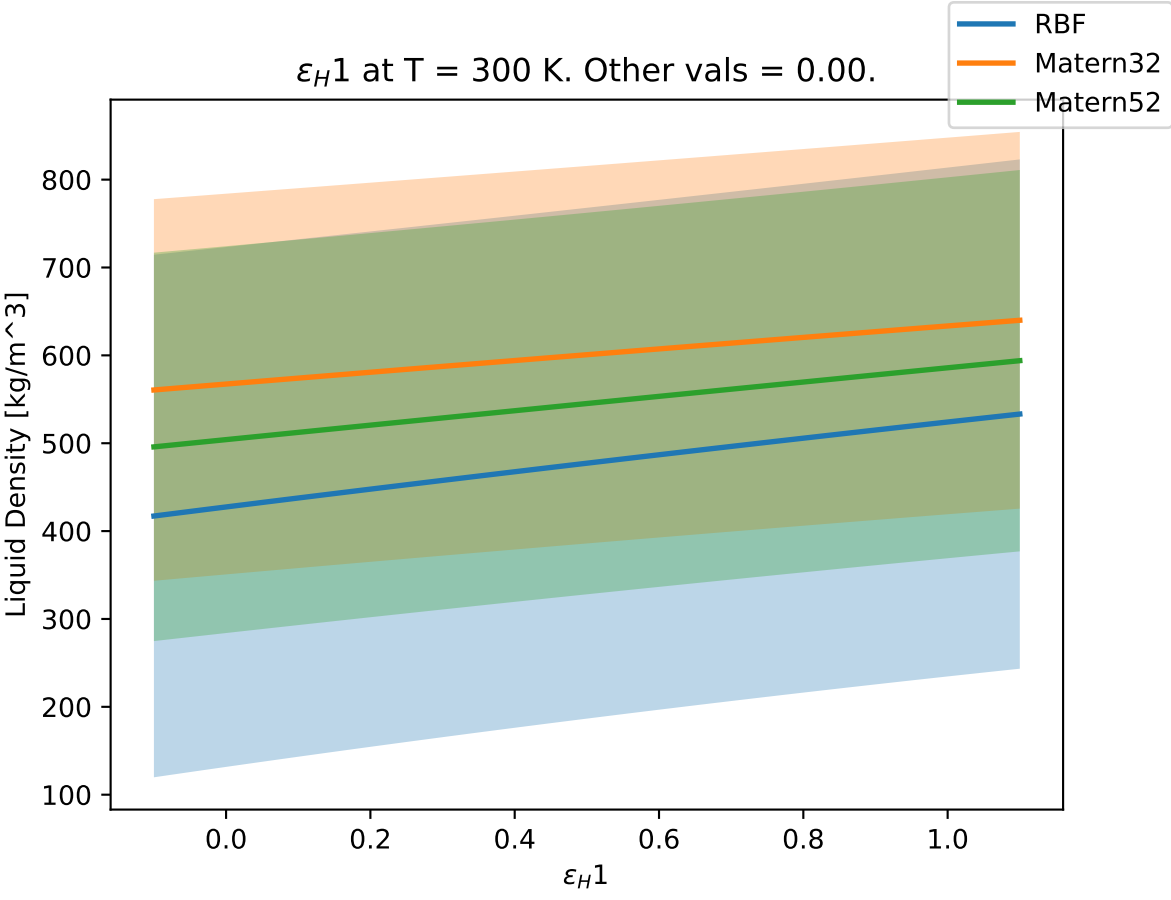

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

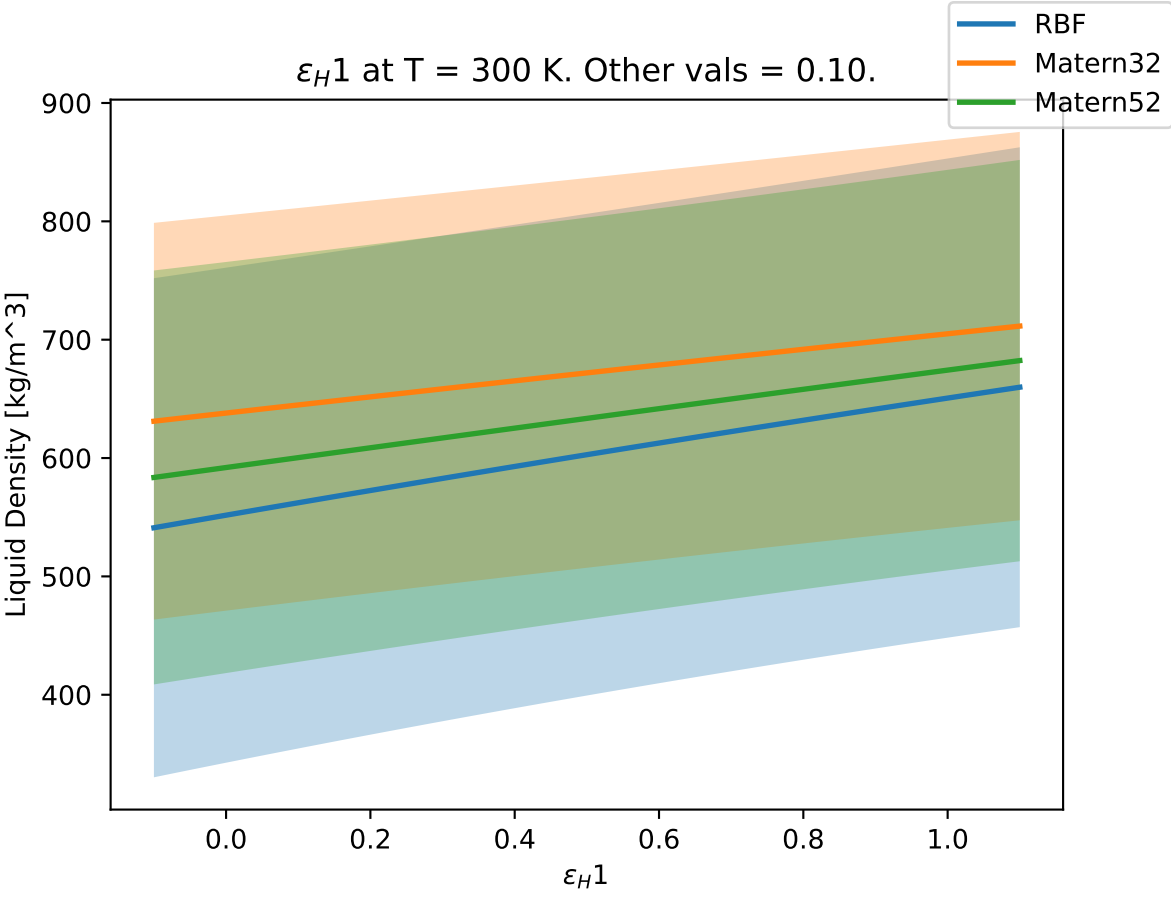

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

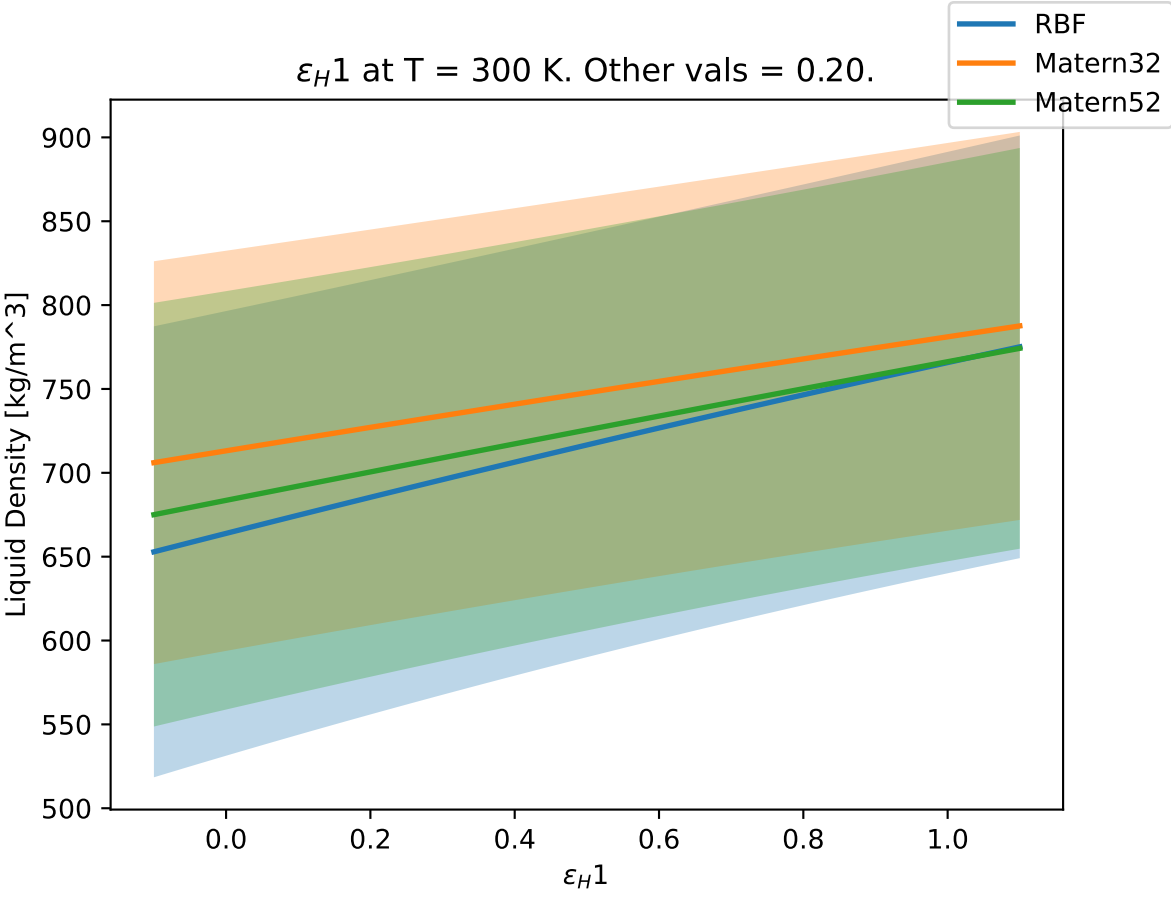

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1100
1000
900
800
700
600
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

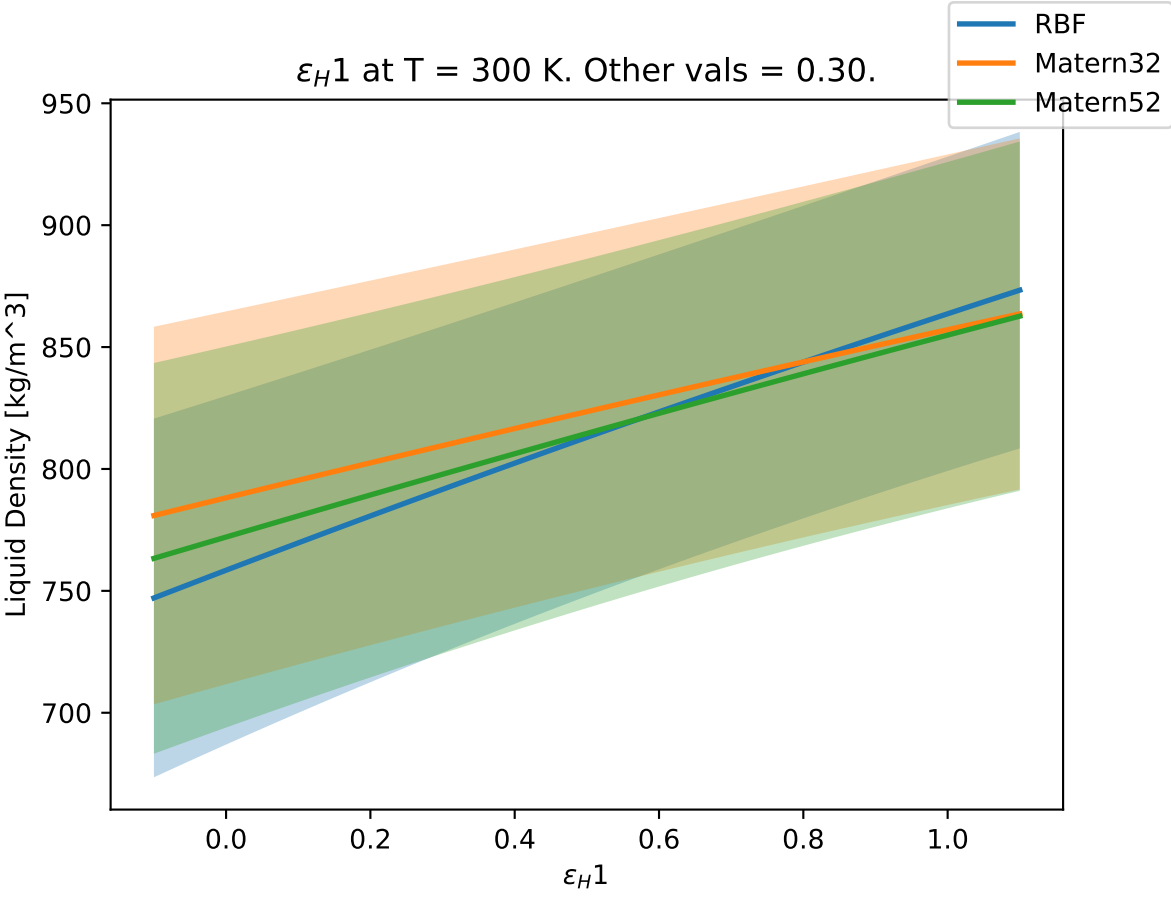

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
600
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

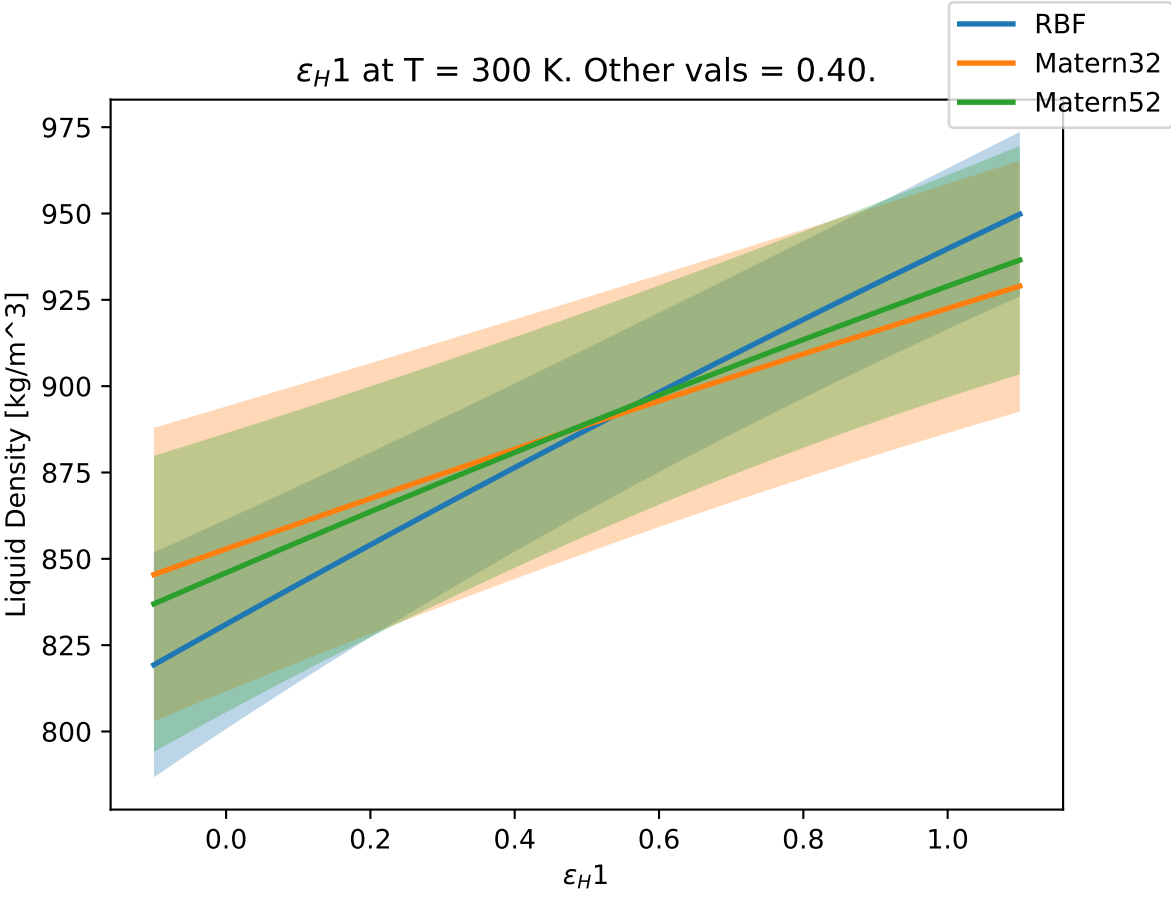

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
1200
1000
800
600
400
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

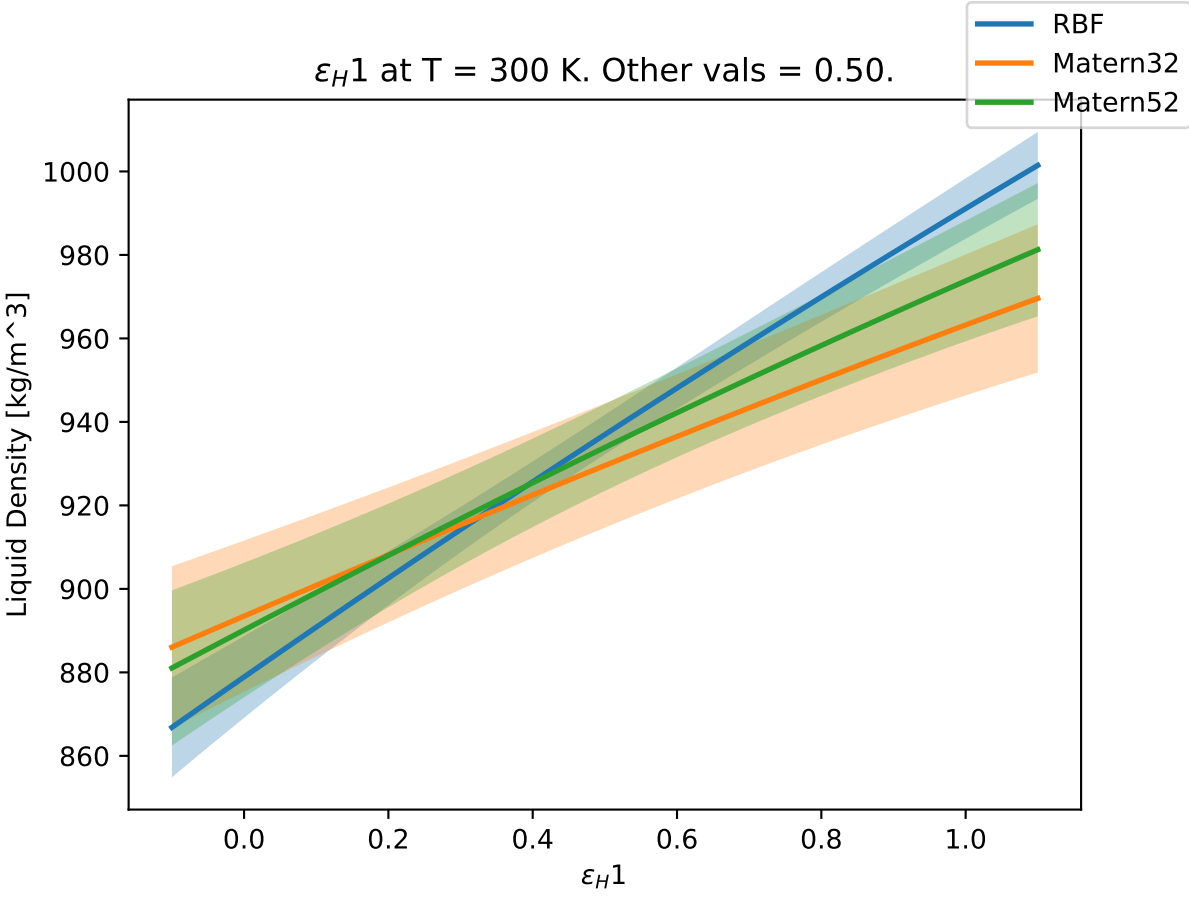

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.00.
Liquid Density [kg/m^3]
800
700
600
500
400
300
200
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

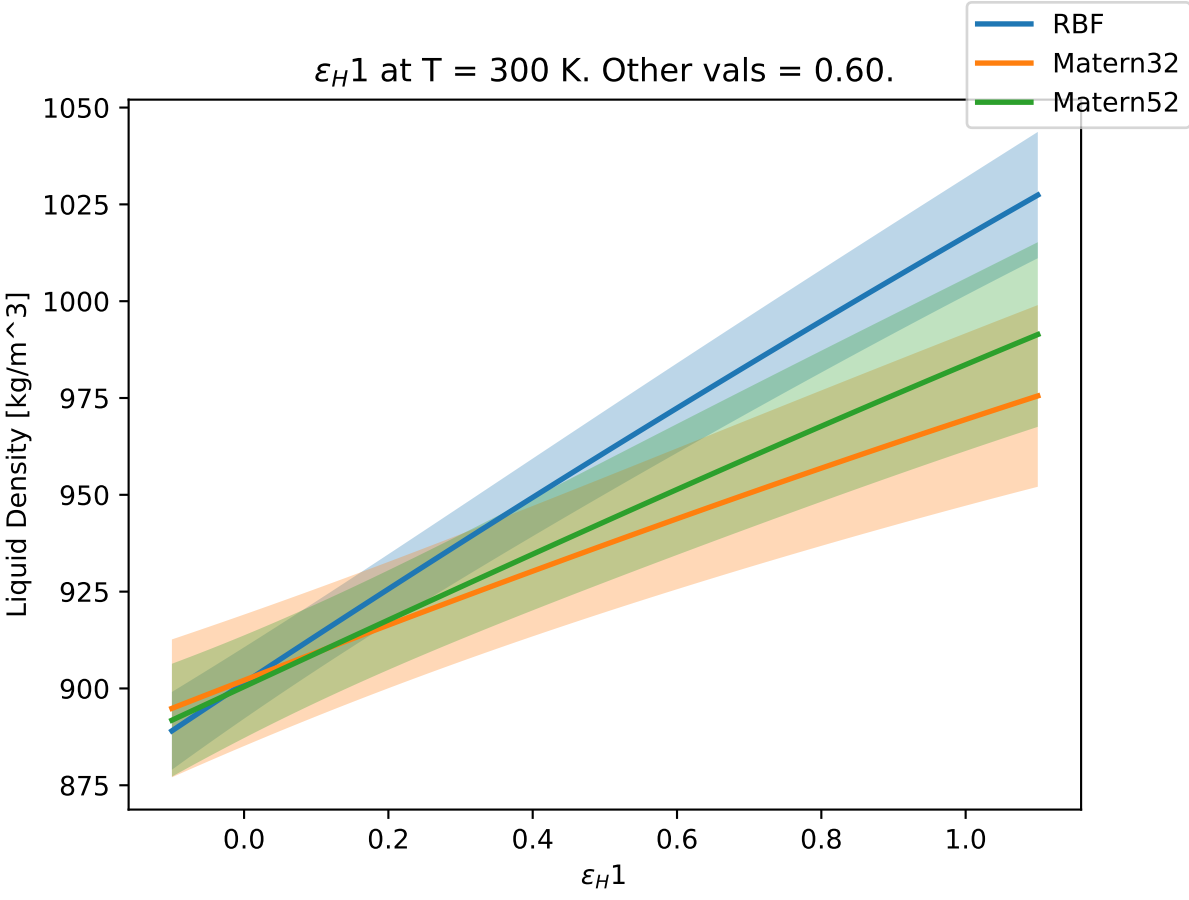

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.10.
900
800
700
600
500
400
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

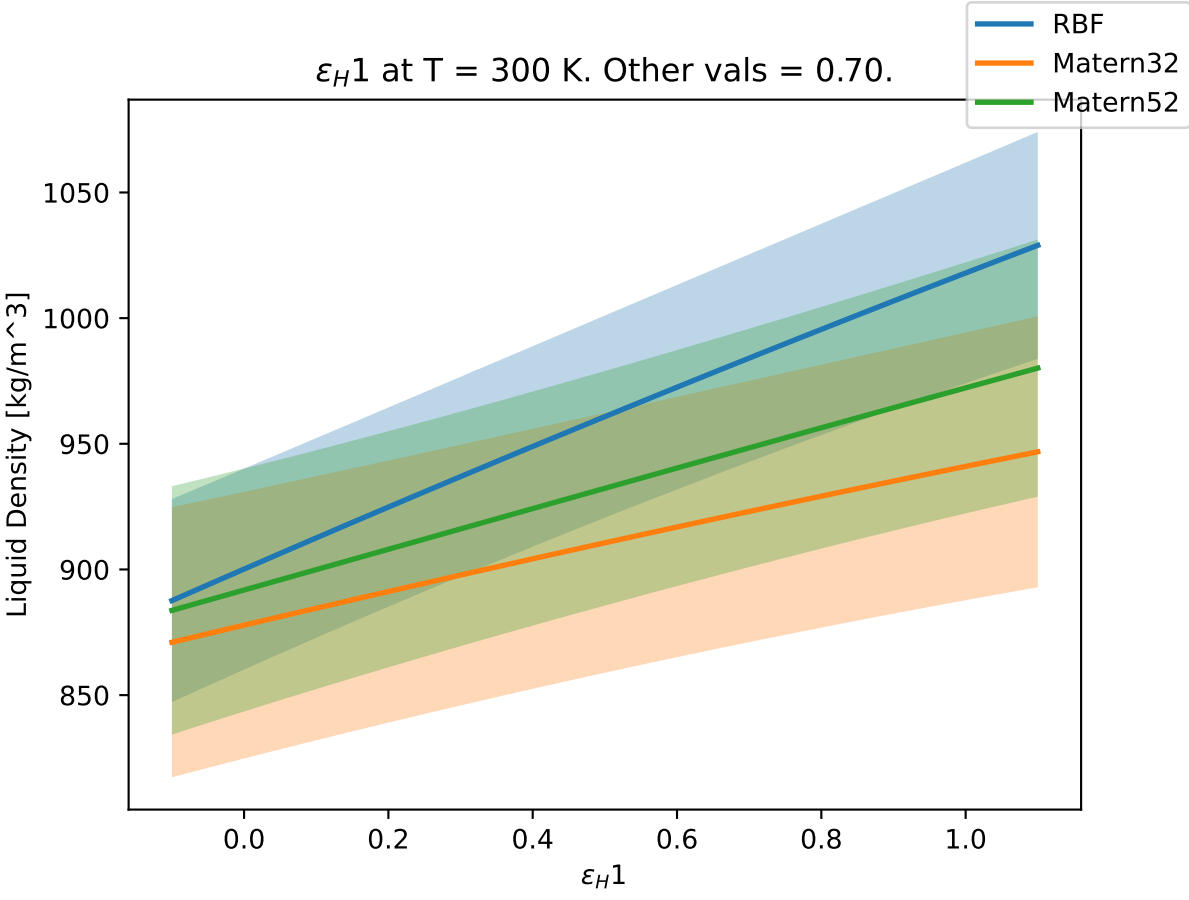

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.20.
Liquid Density [kg/m^3]
900
850
800
750
700
650
600
550
500
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

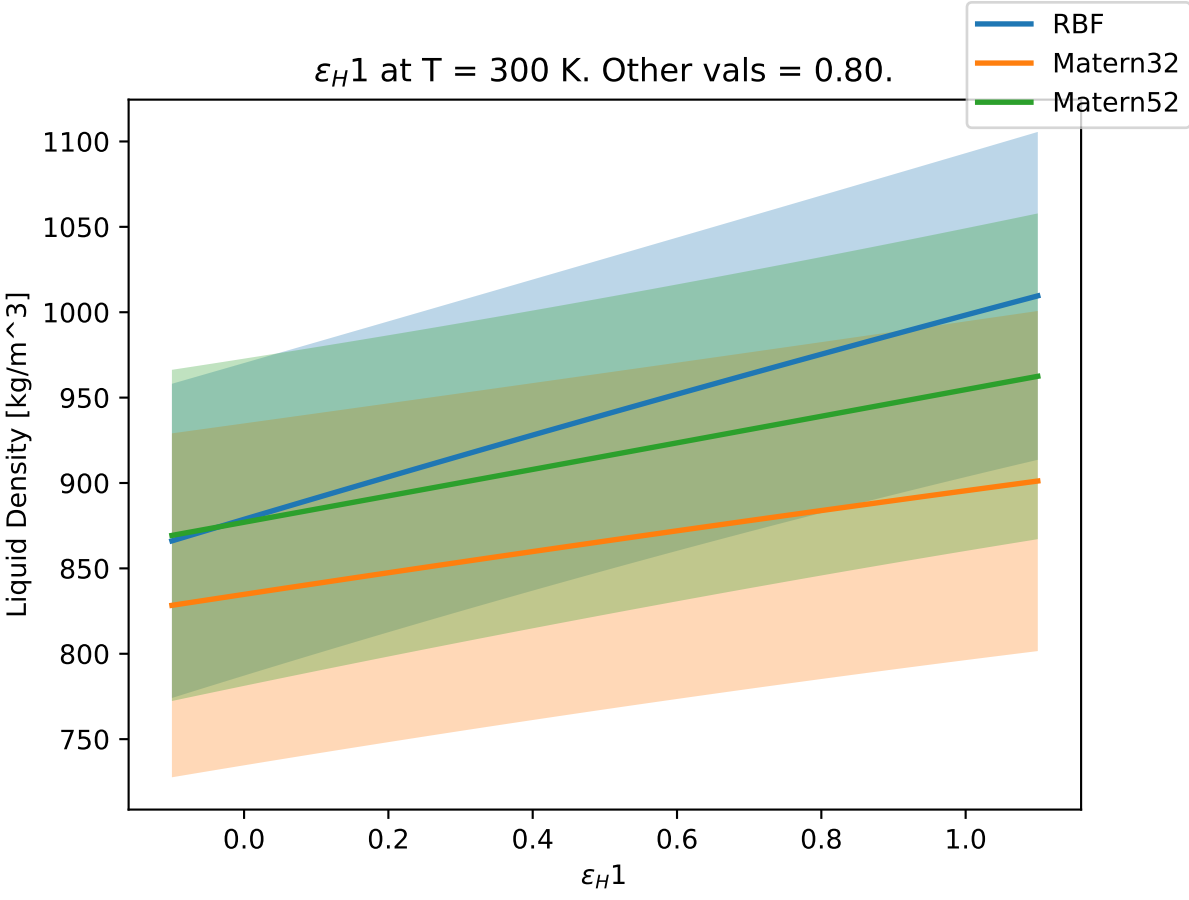

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.30.
950
900
850
800
750
700
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

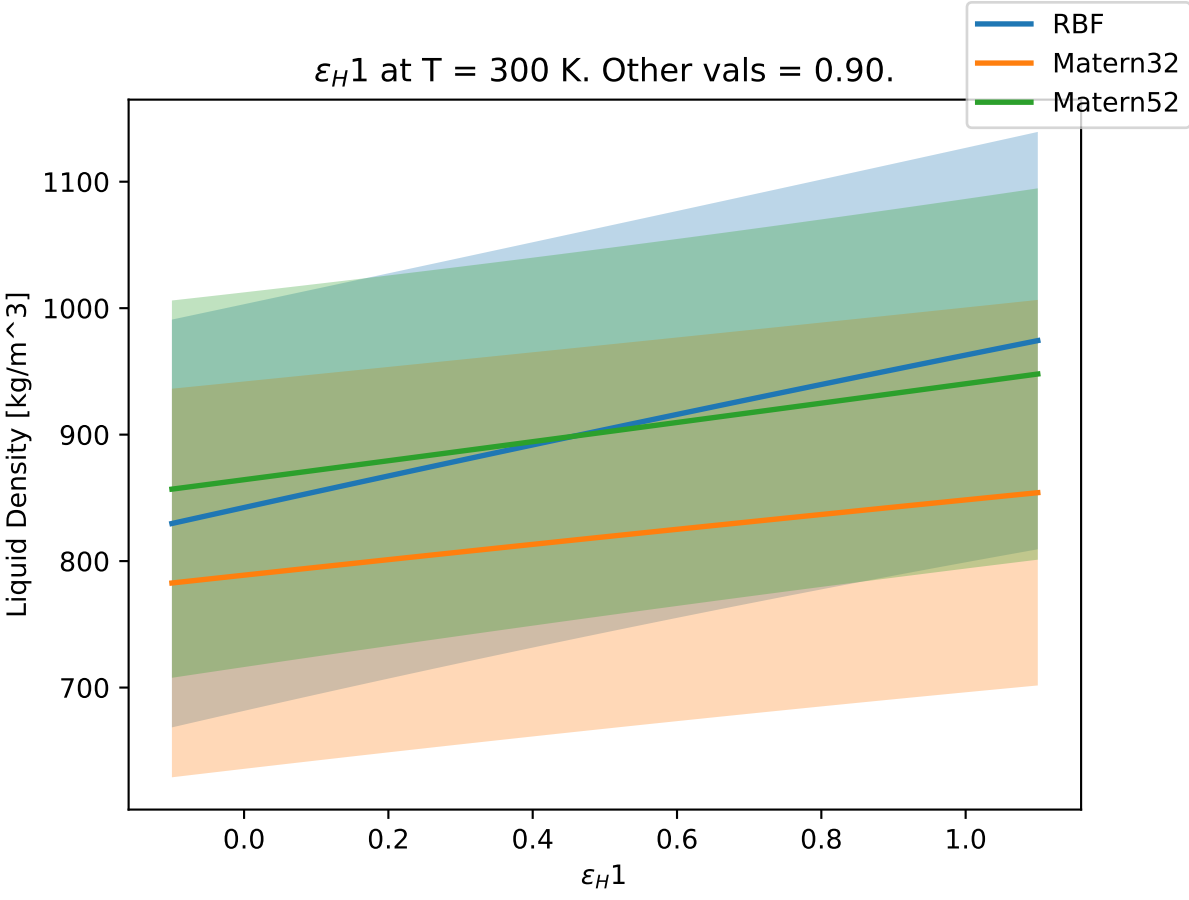

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.40.
975
950
925
900
875
850
825
800
Liquid Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

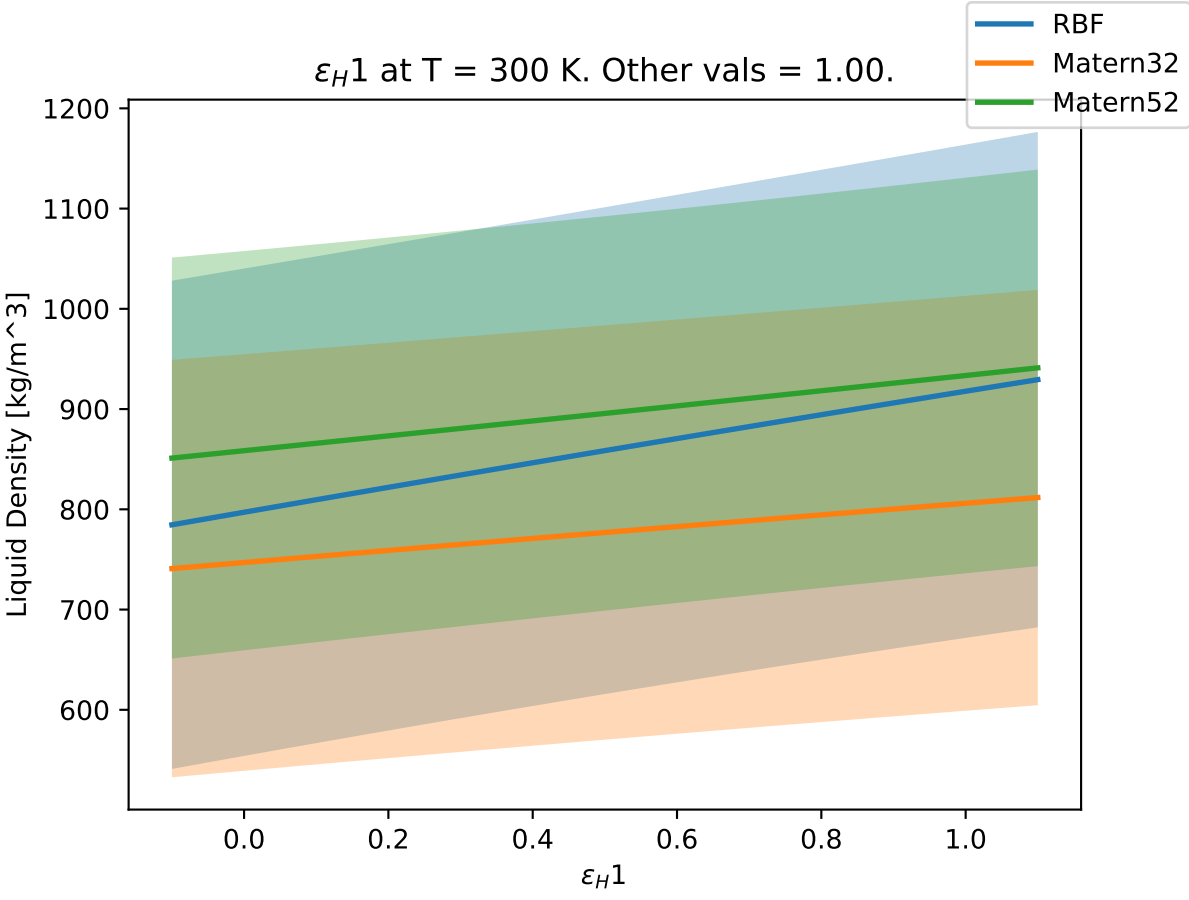

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.50.
Liquid Density [kg/m^3]
1000
980
960
940
920
900
880
860
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.60.
Liquid Density [kg/m^3]
1050
1025
1000
975
950
925
900
875
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.70.
Liquid Density [kg/m^3]
1050
1000
950
900
850
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.80.
Liquid Density [kg/m^3]
1100
1050
1000
950
900
850
800
750
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.90.
Liquid Density [kg/m^3]
1100
1000
900
800
700
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 1.00.
Liquid Density [kg/m^3]
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800
700
600
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0.4
0.6
0.8
1.0
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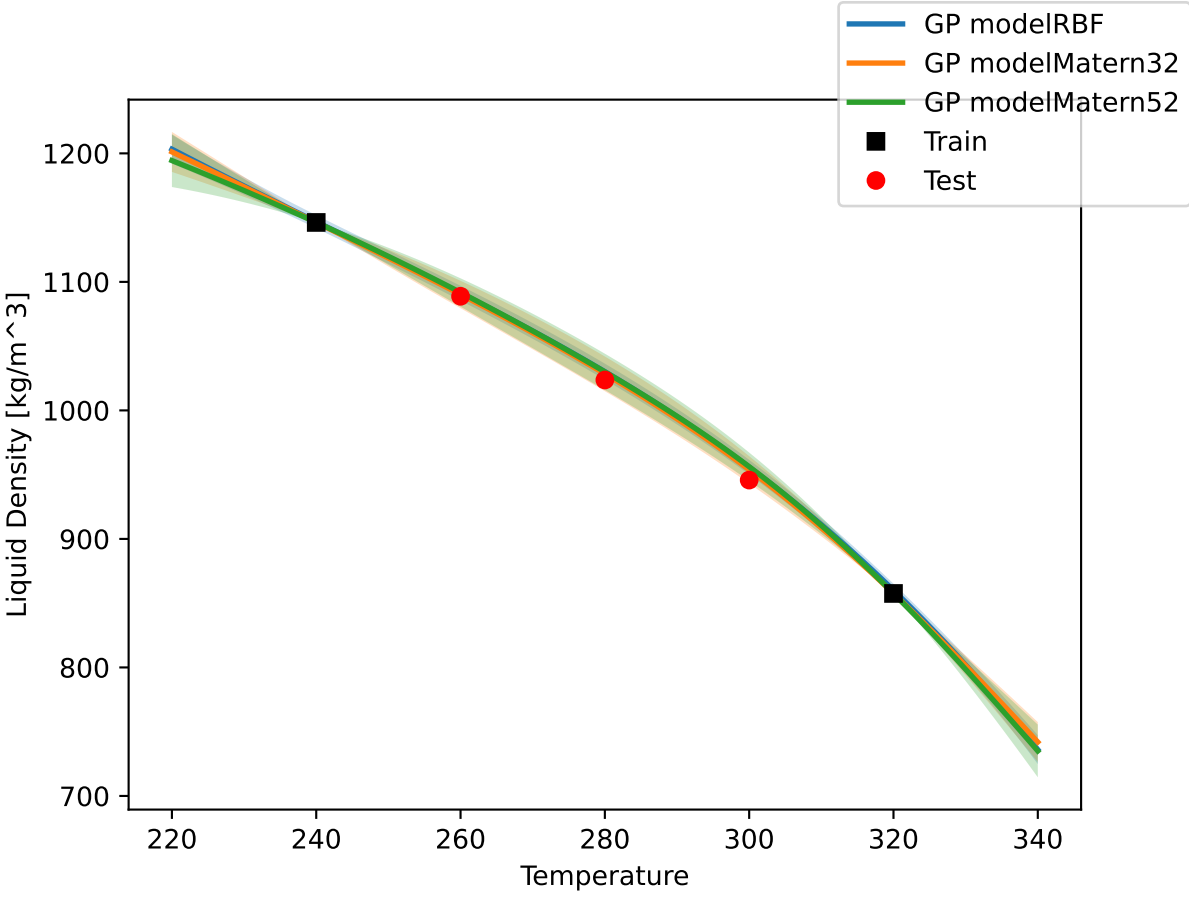
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GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
1200
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240
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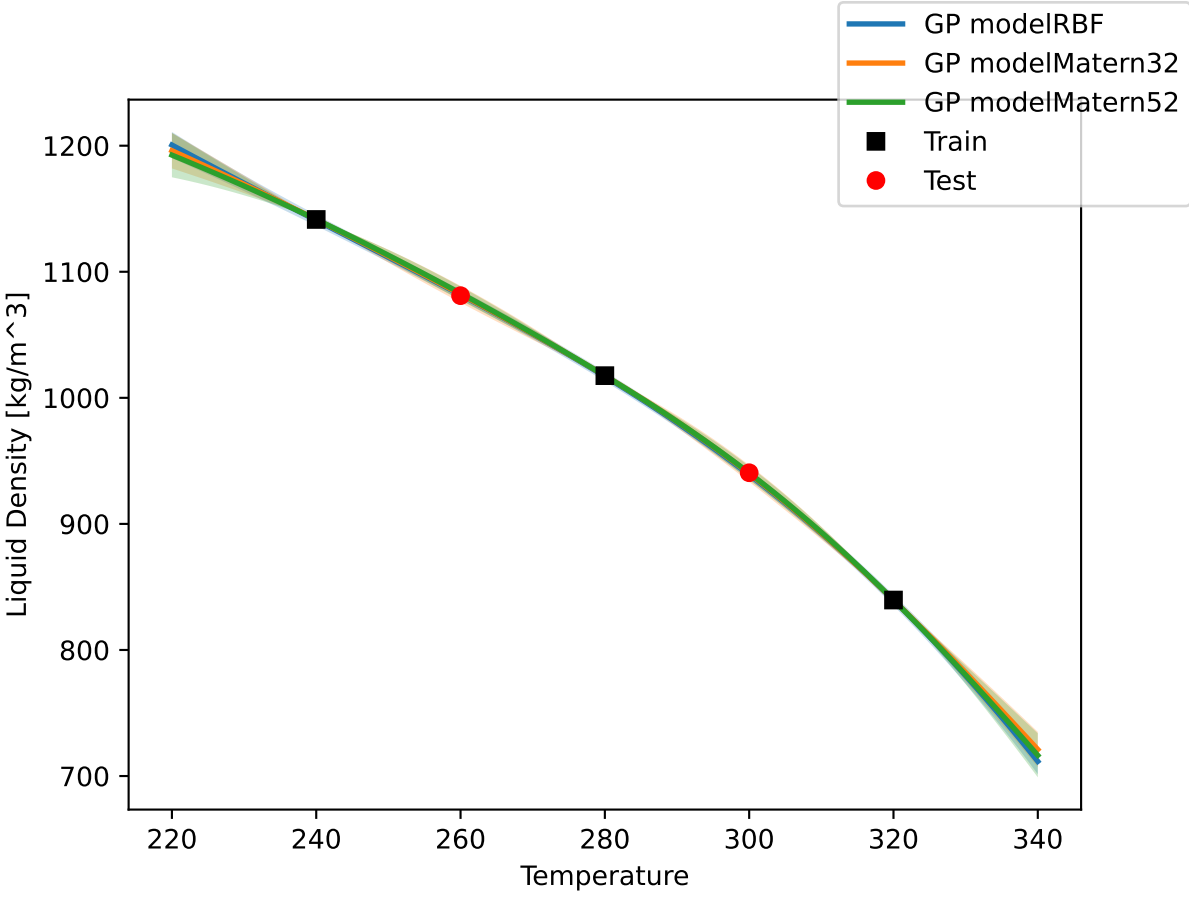
300
320
340
Temperature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Test
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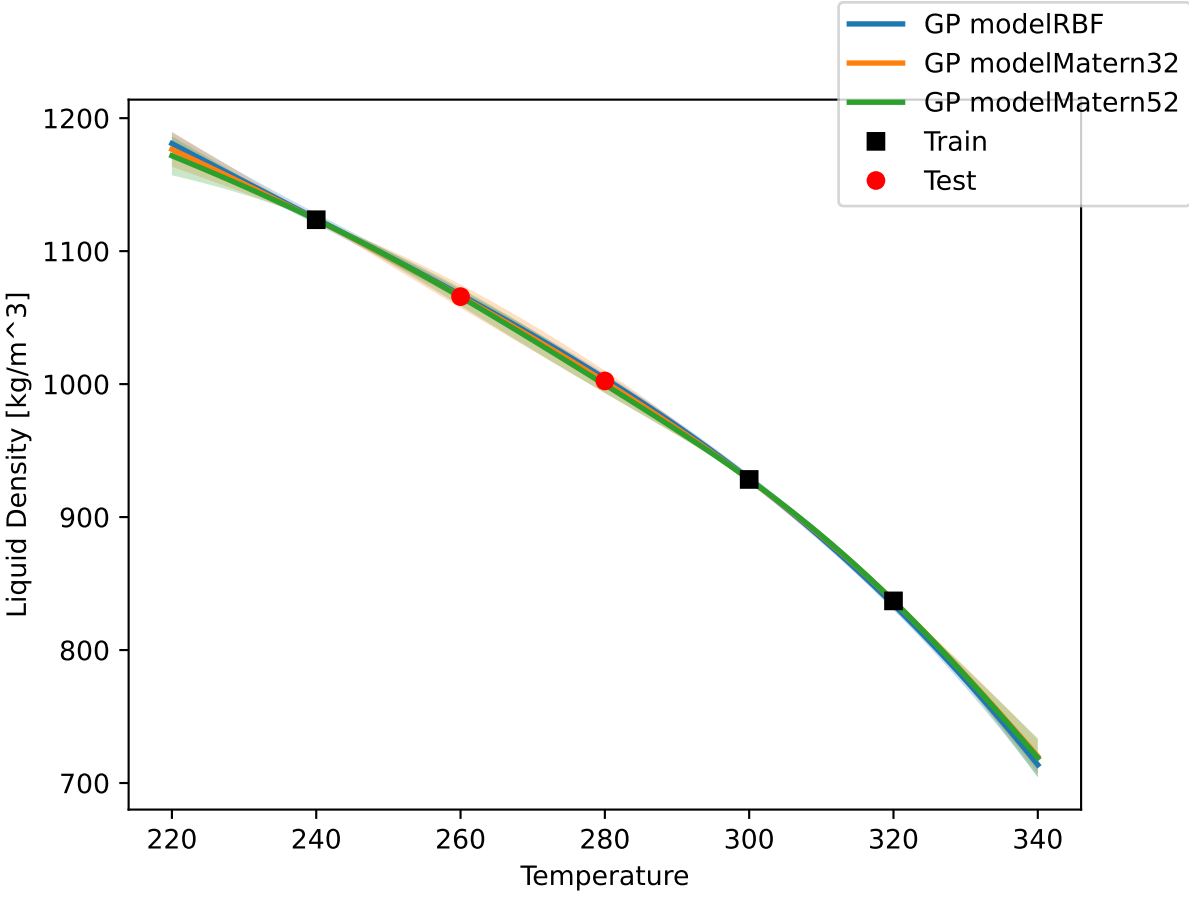
Temperature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Train
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Liquid Density [kg/m^3]
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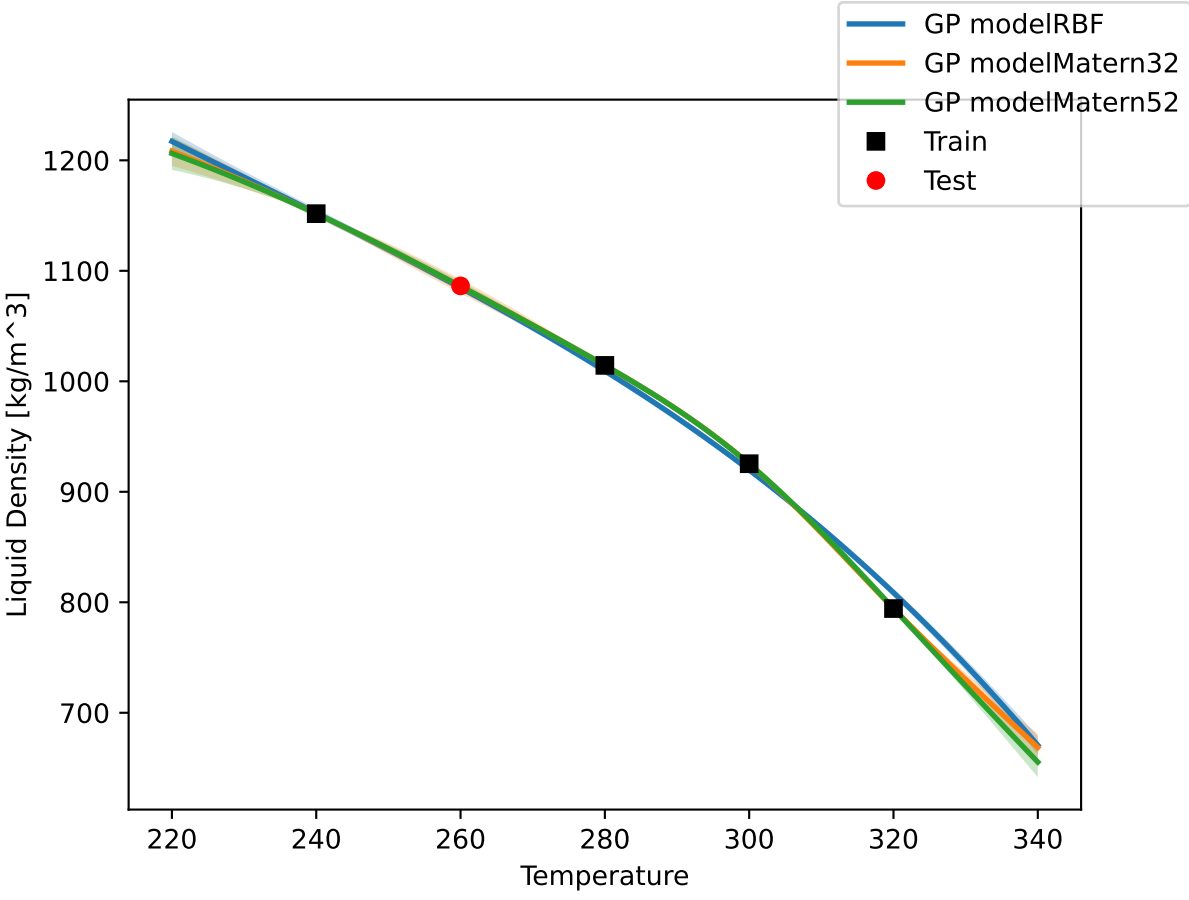
Temperature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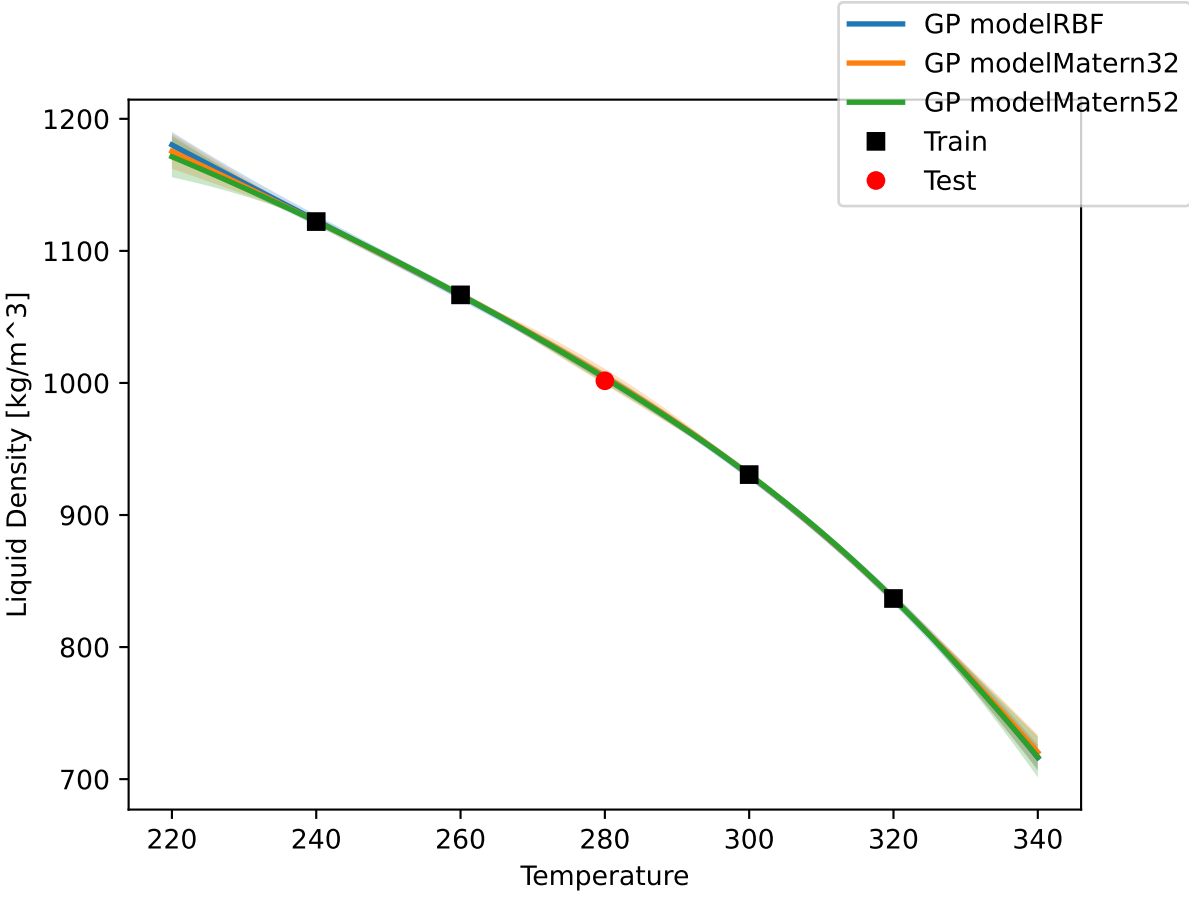
Temperature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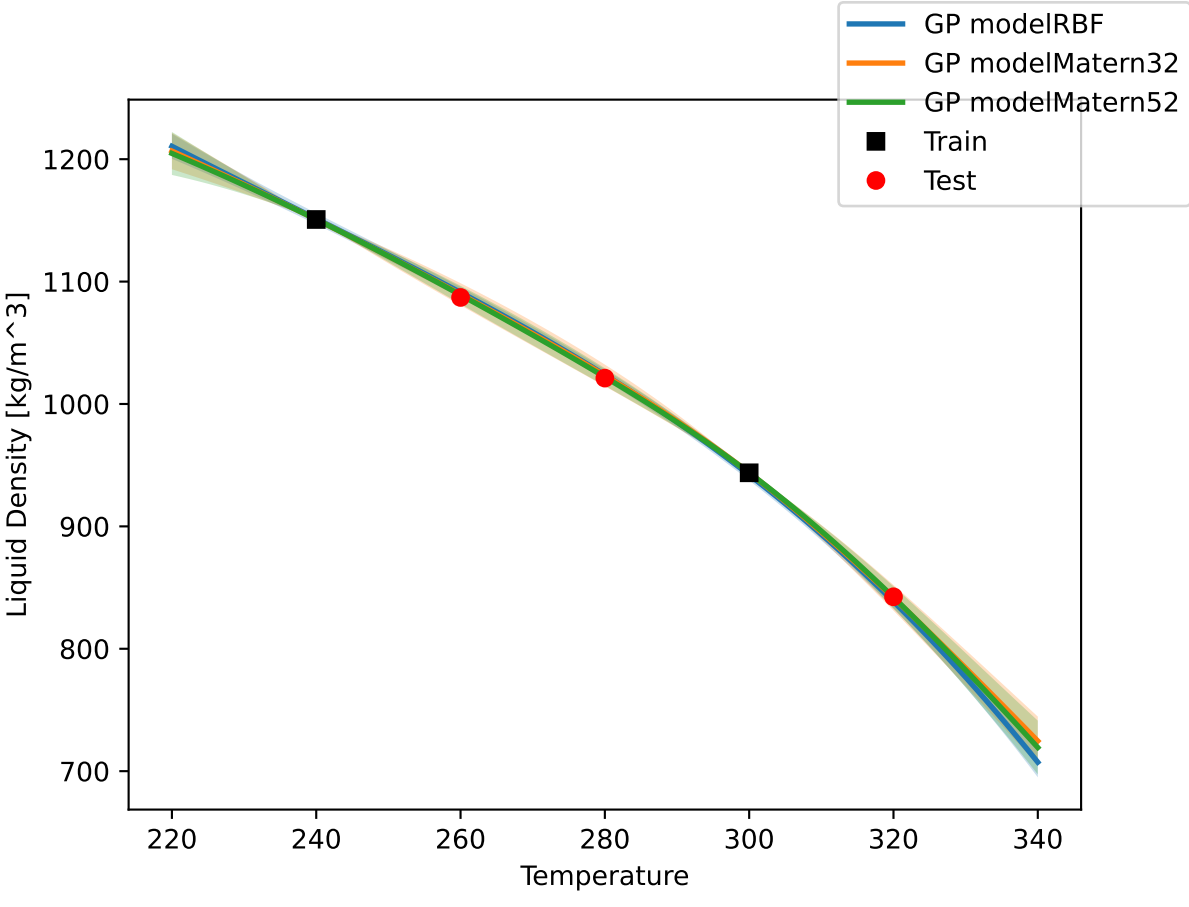
Temperature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Liquid Density [kg/m^3]
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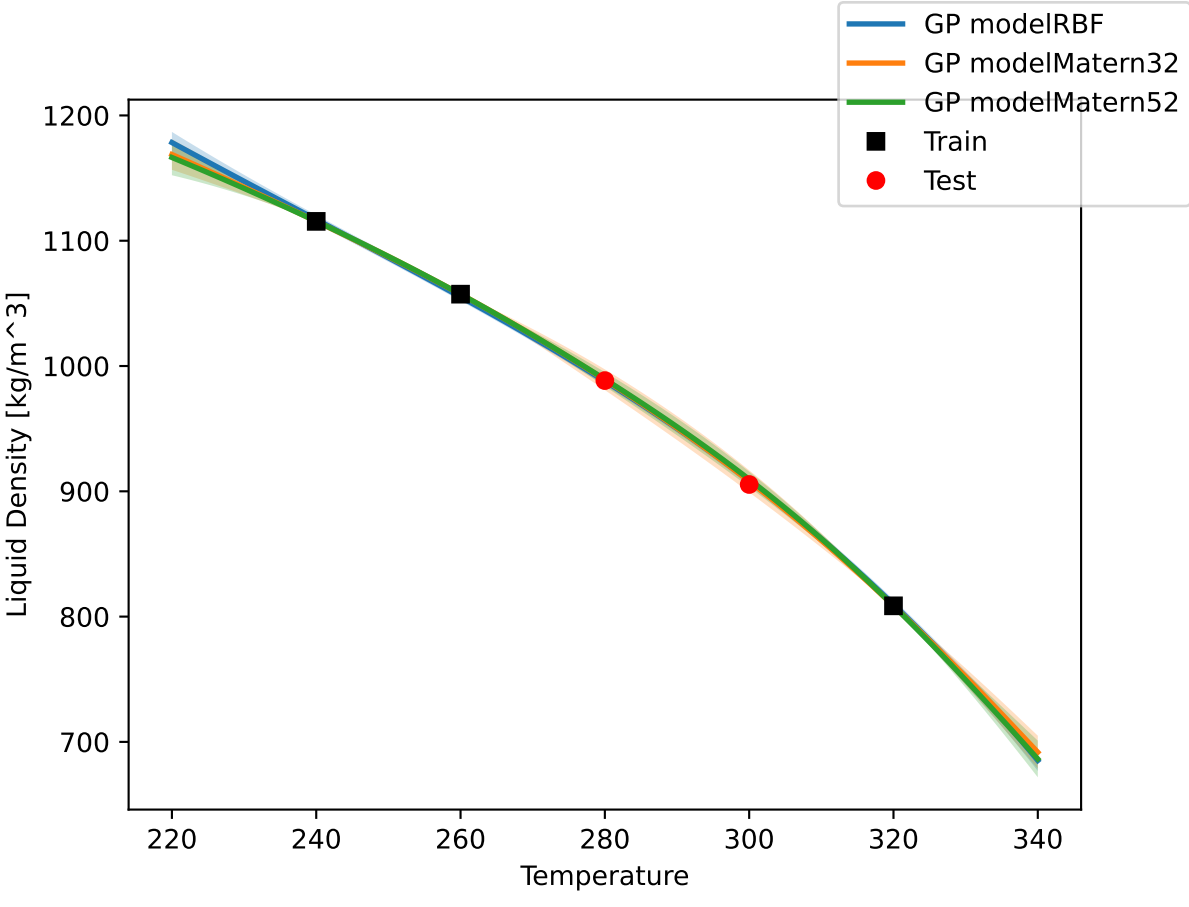
Temperature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Liquid Density [kg/m^3]
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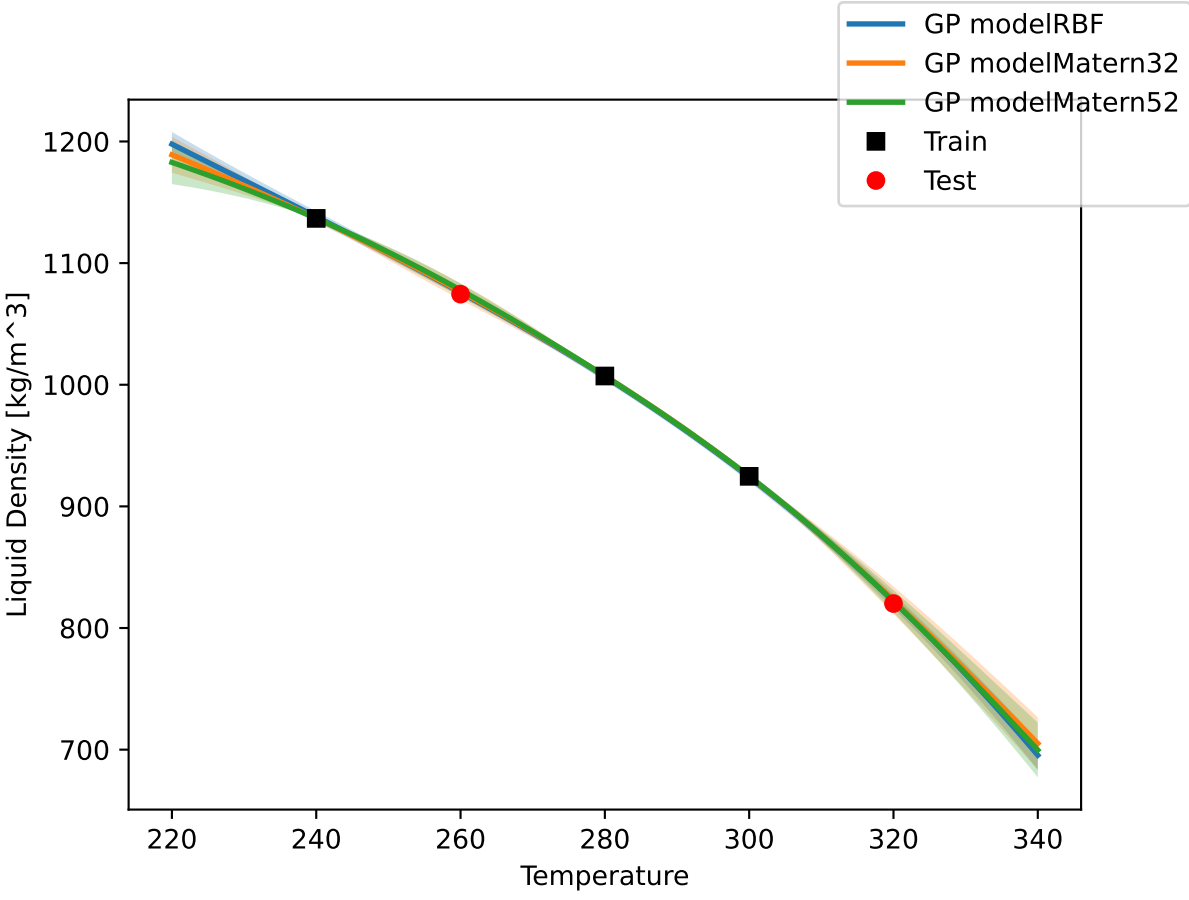
Temperature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Liquid Density [kg/m^3]
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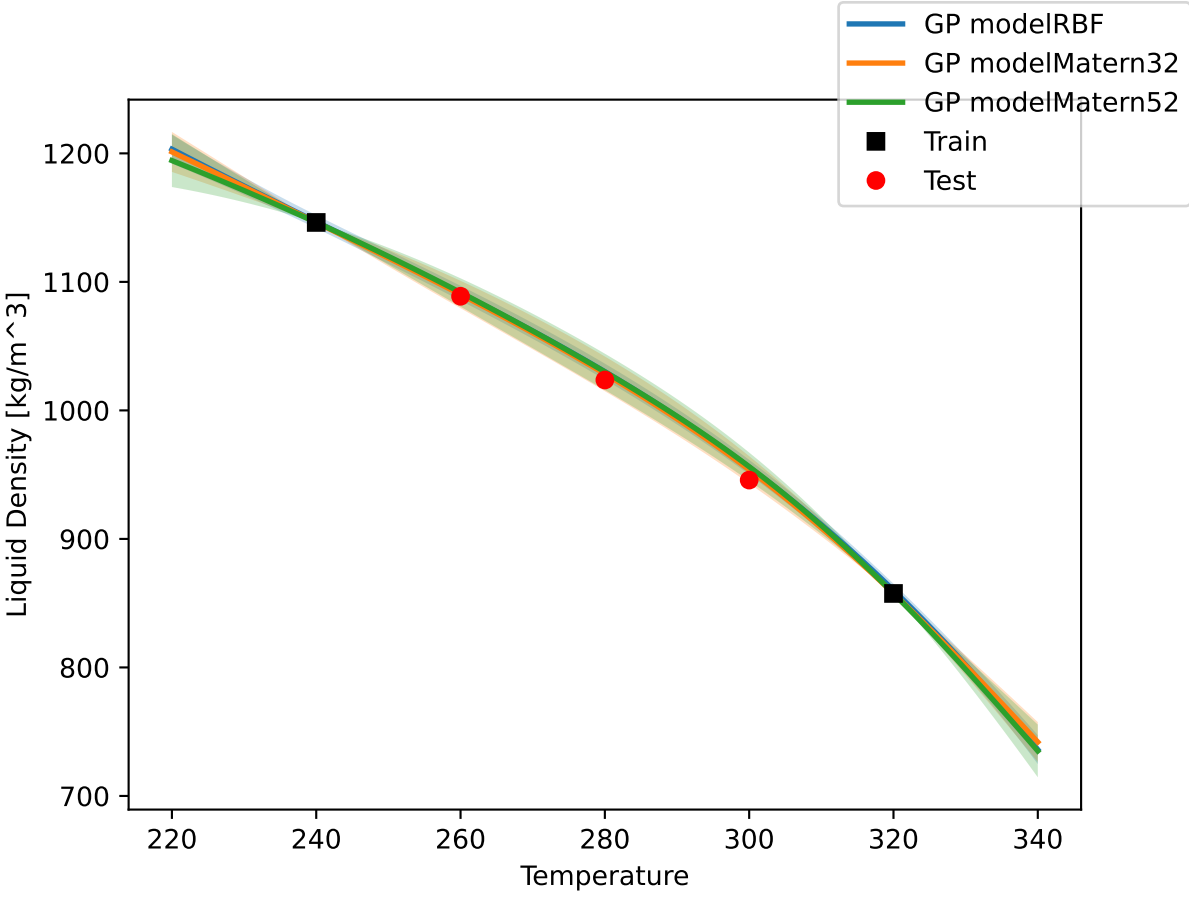
Temperature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Liquid Density [kg/m^3]
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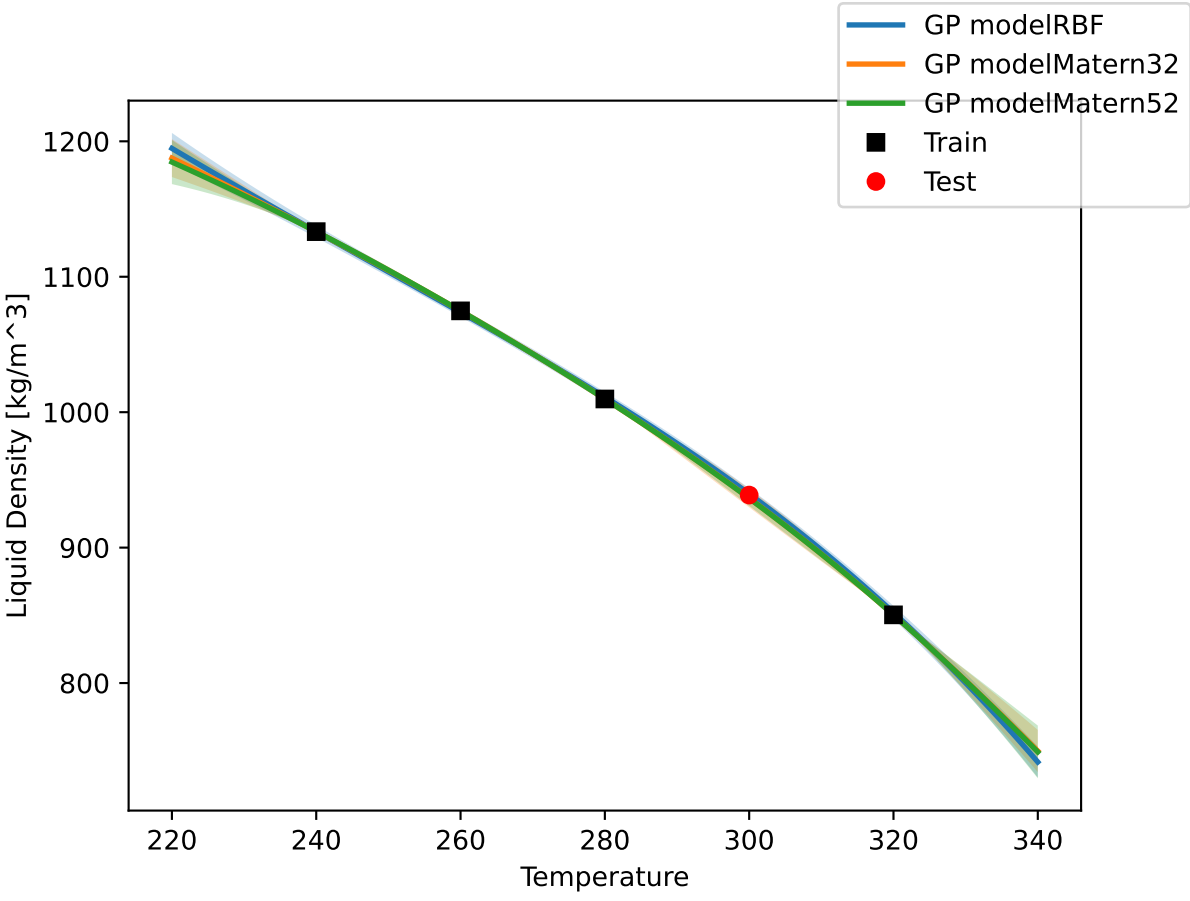
Temperature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Liquid Density [kg/m^3]
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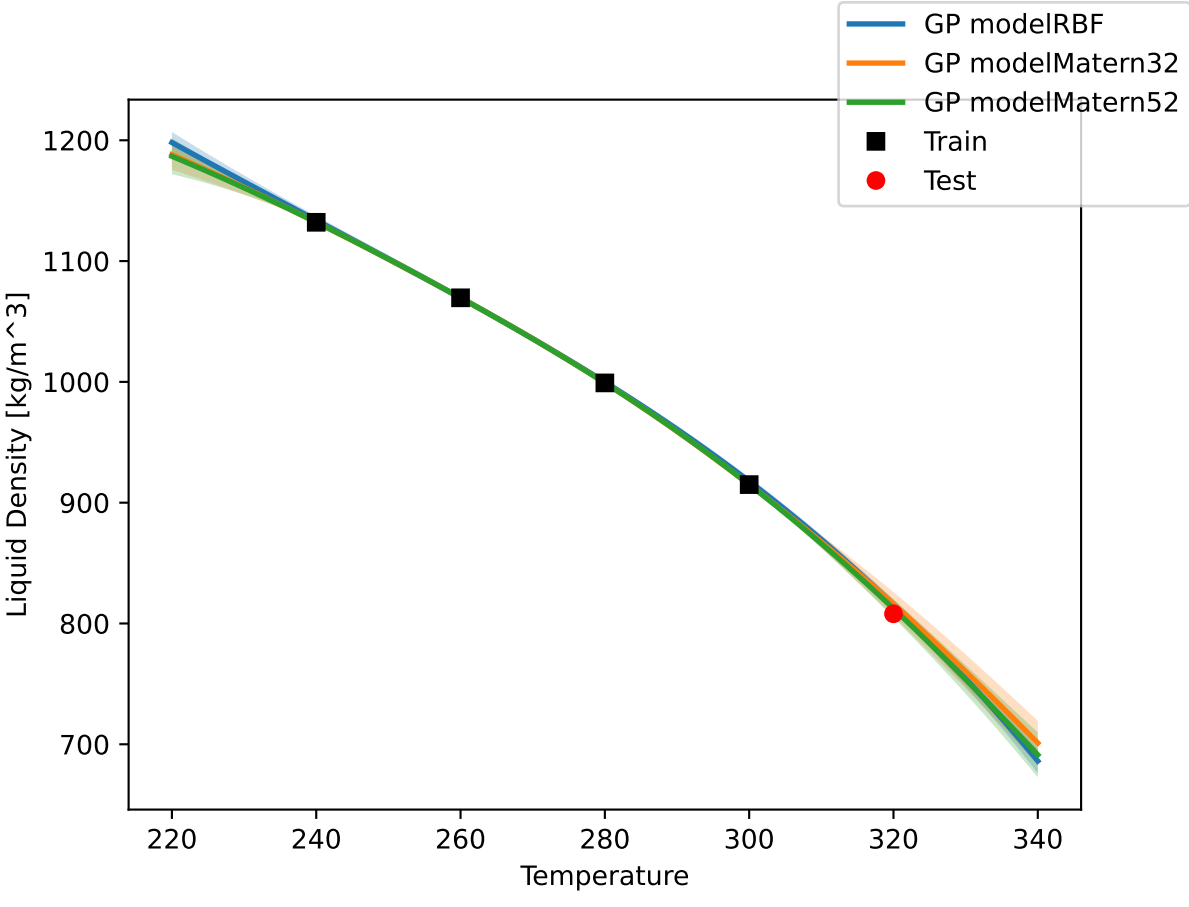
Temperature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Train
Test
Liquid Density [kg/m^3]
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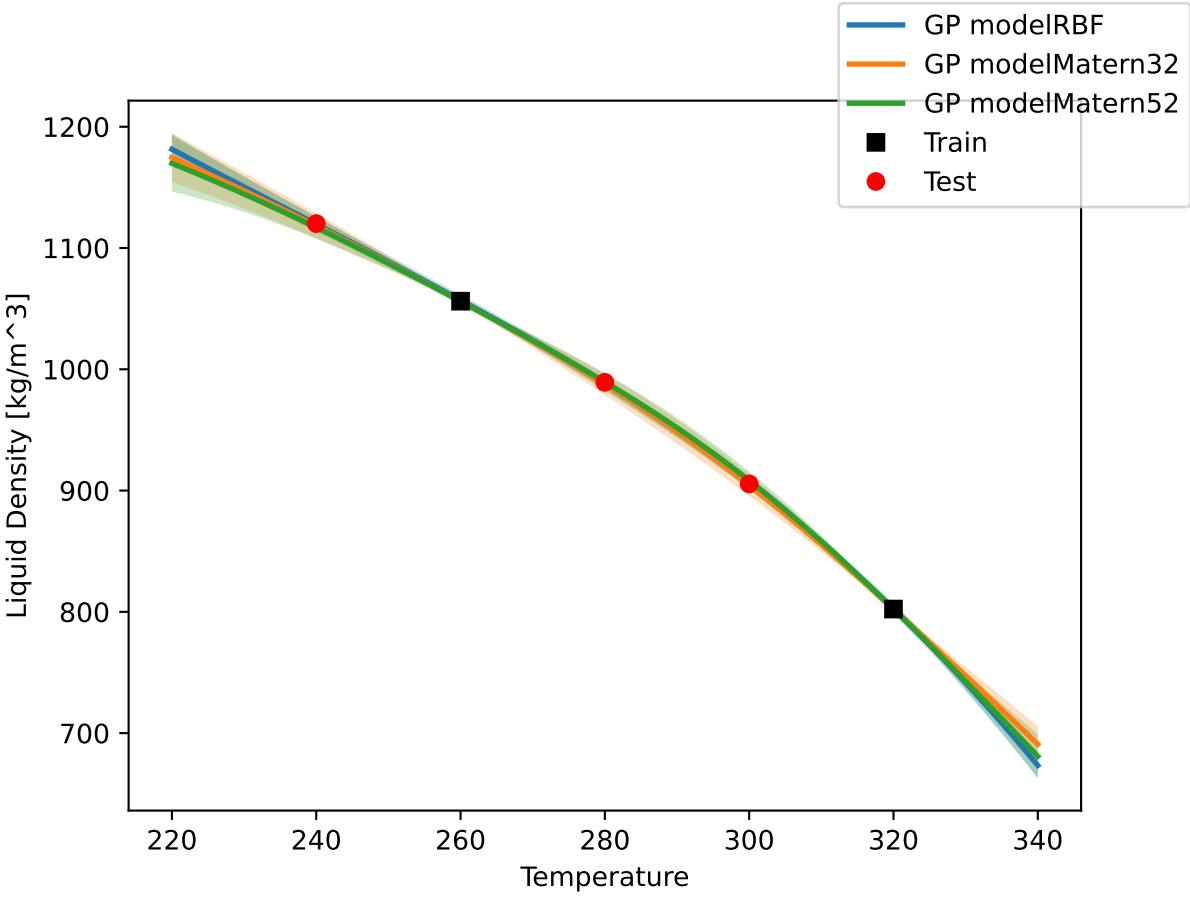
Temperature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Liquid Density [kg/m^3]
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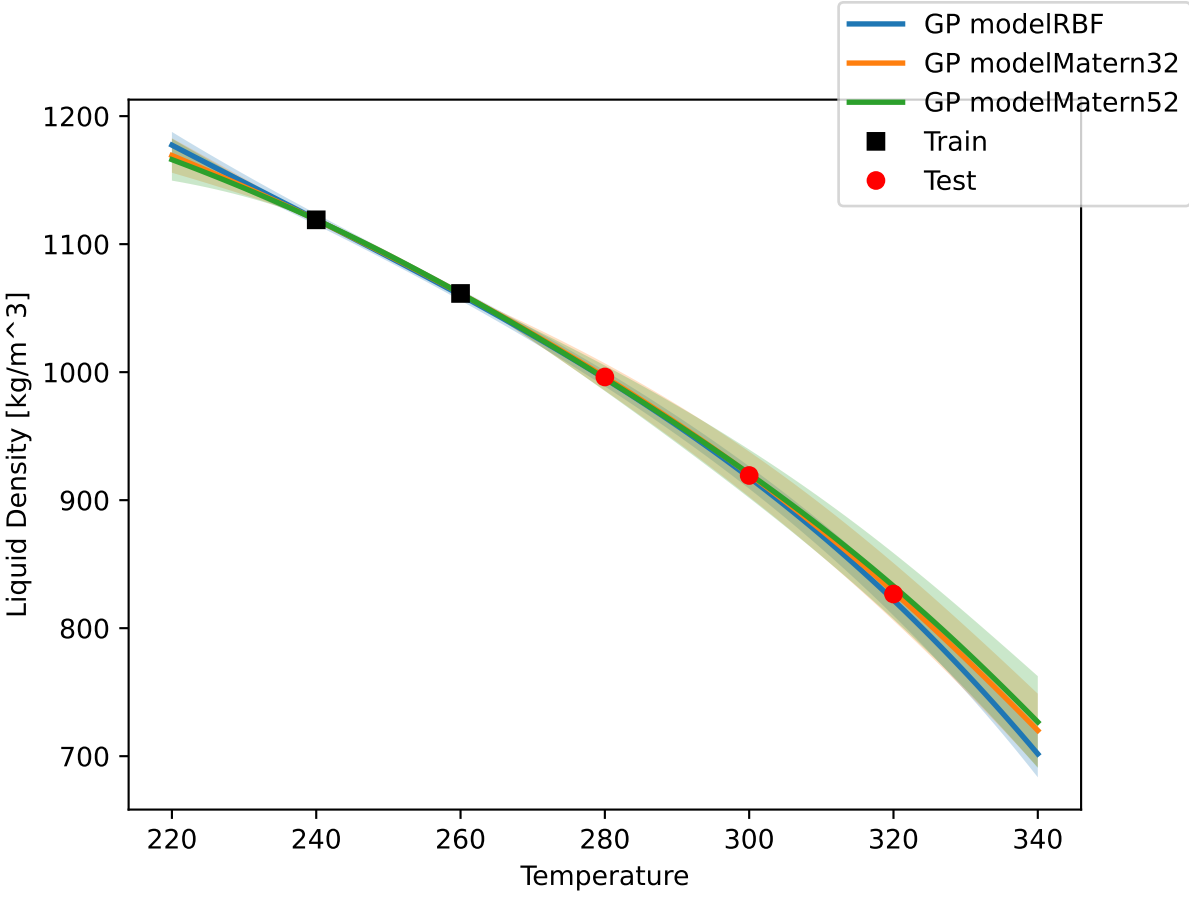
Temperature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Liquid Density [kg/m^3]
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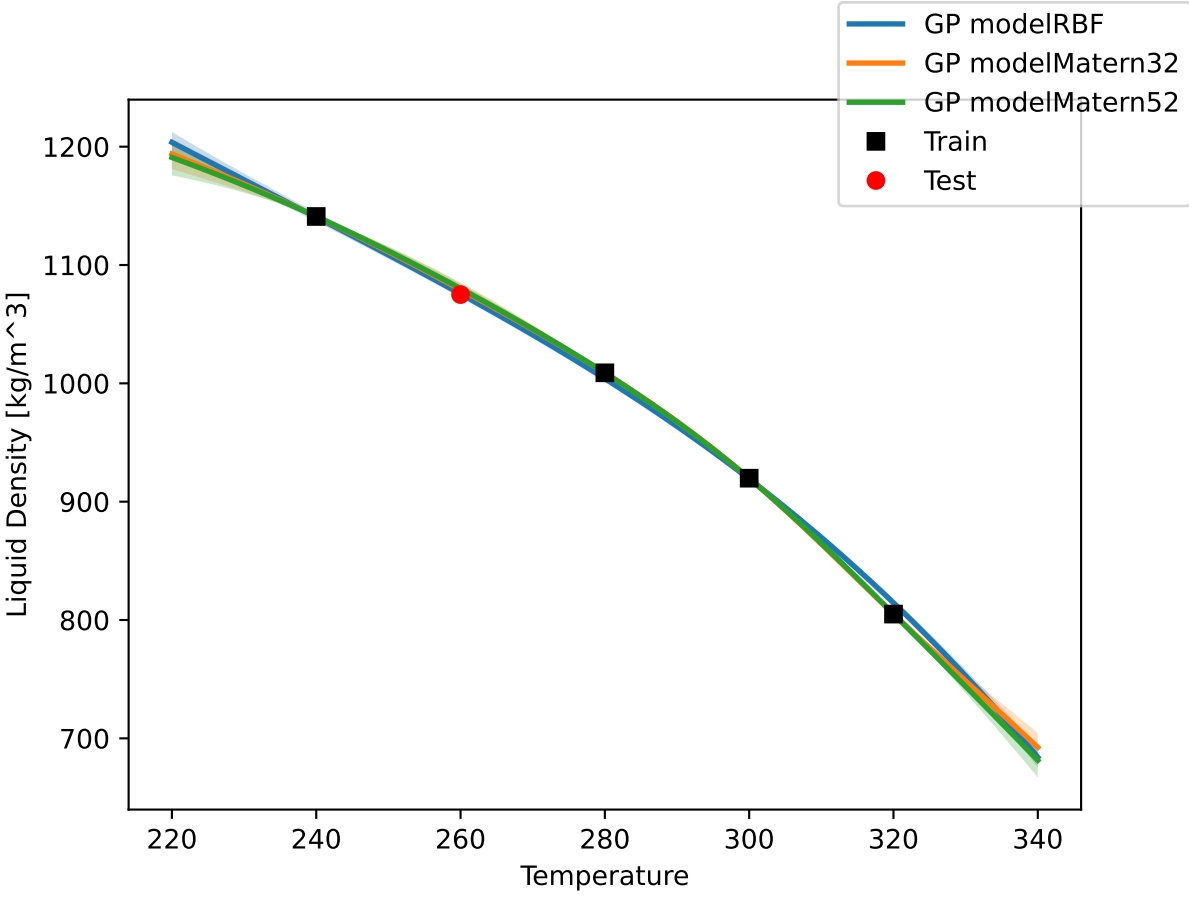
Temperature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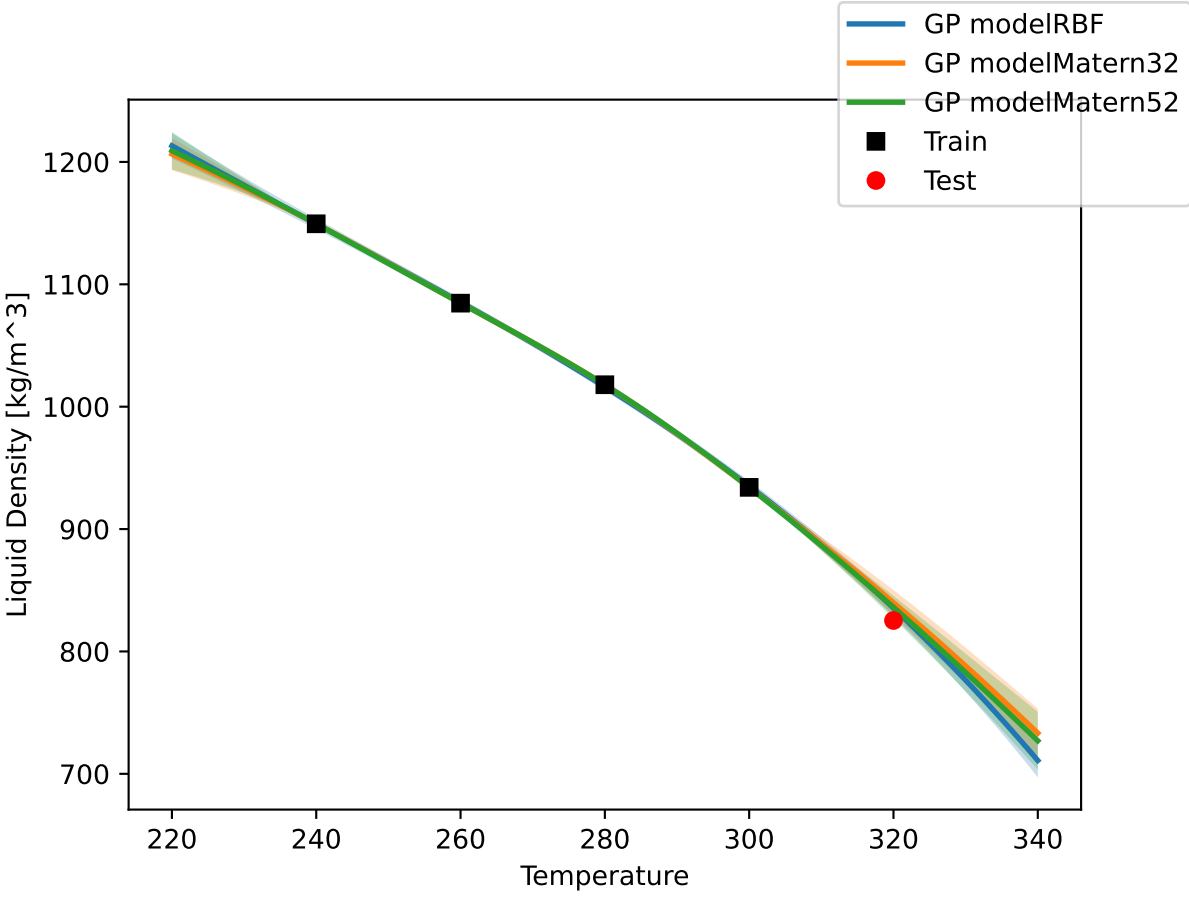
Temperature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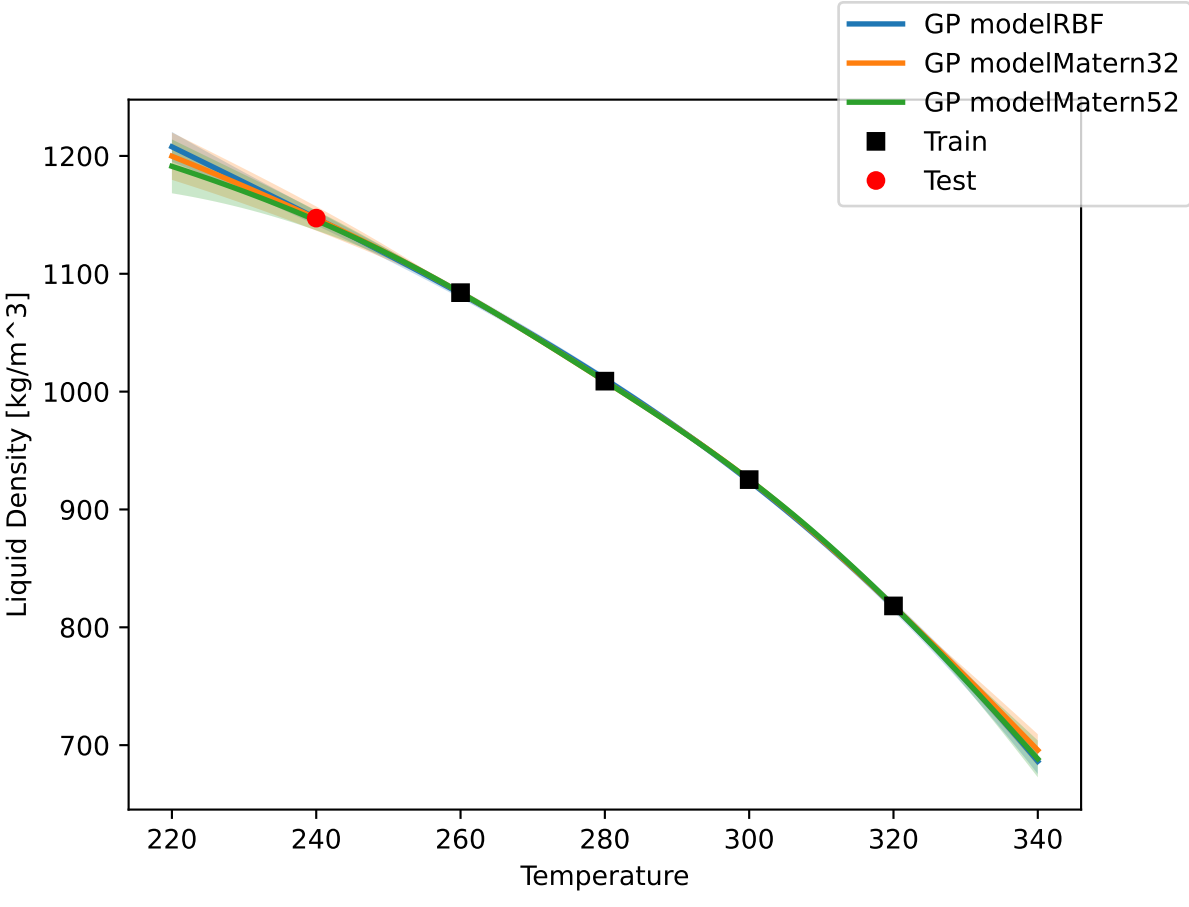
Temperature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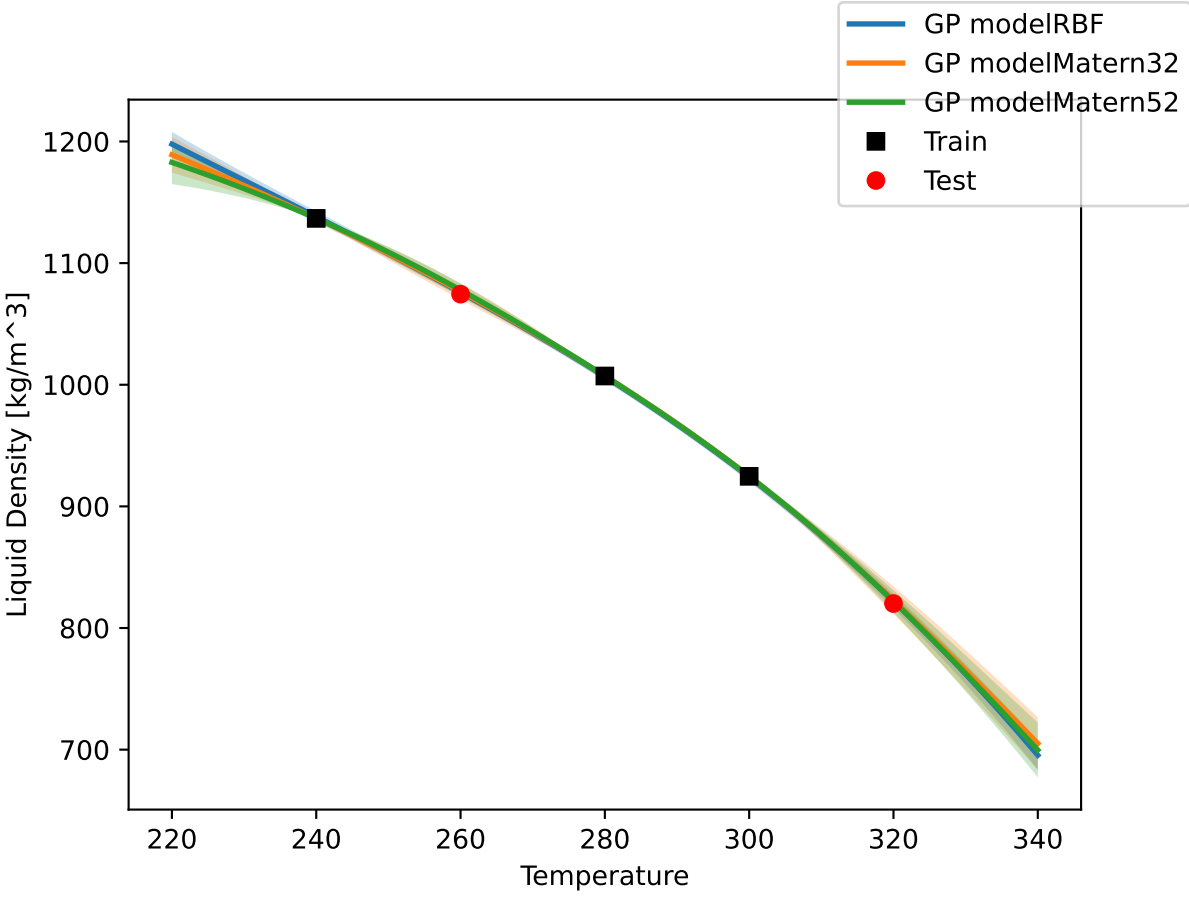
Temperature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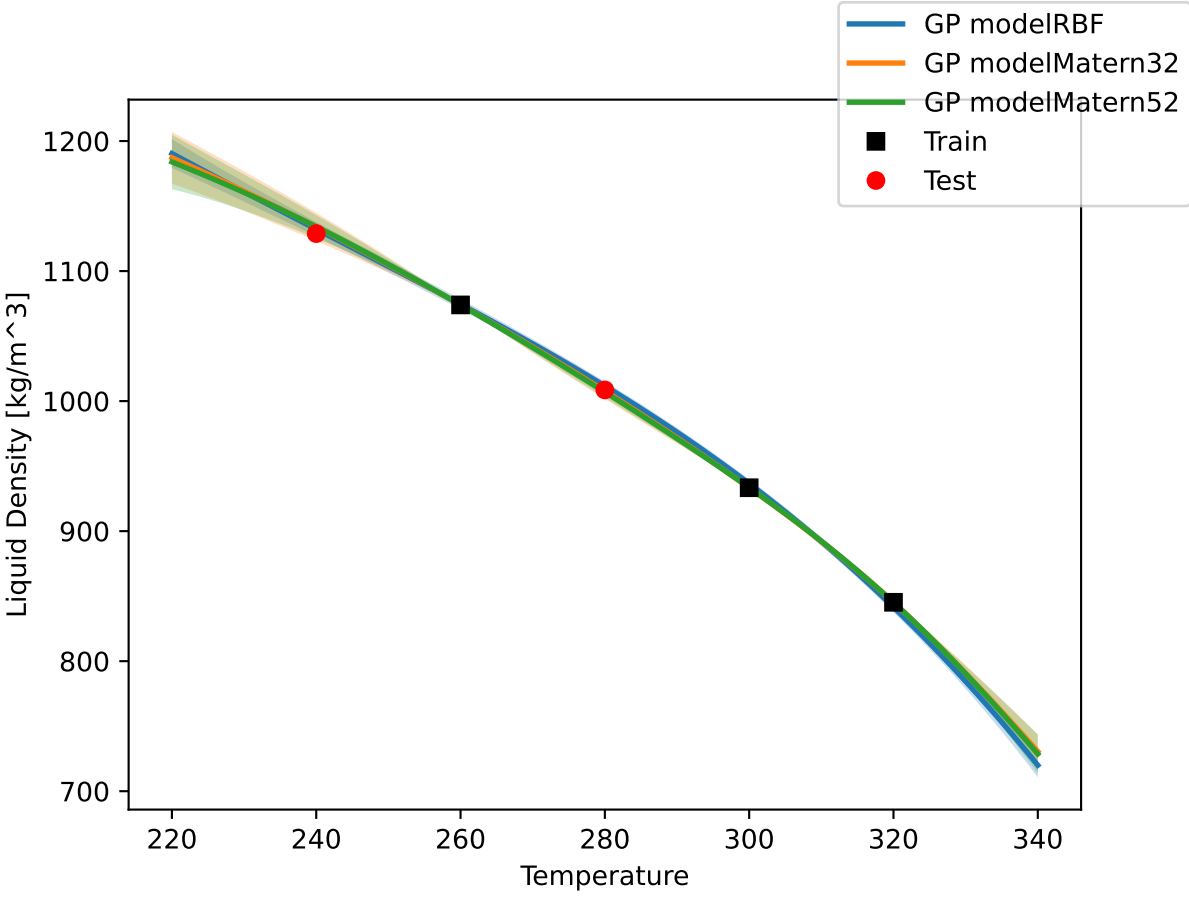
Temperature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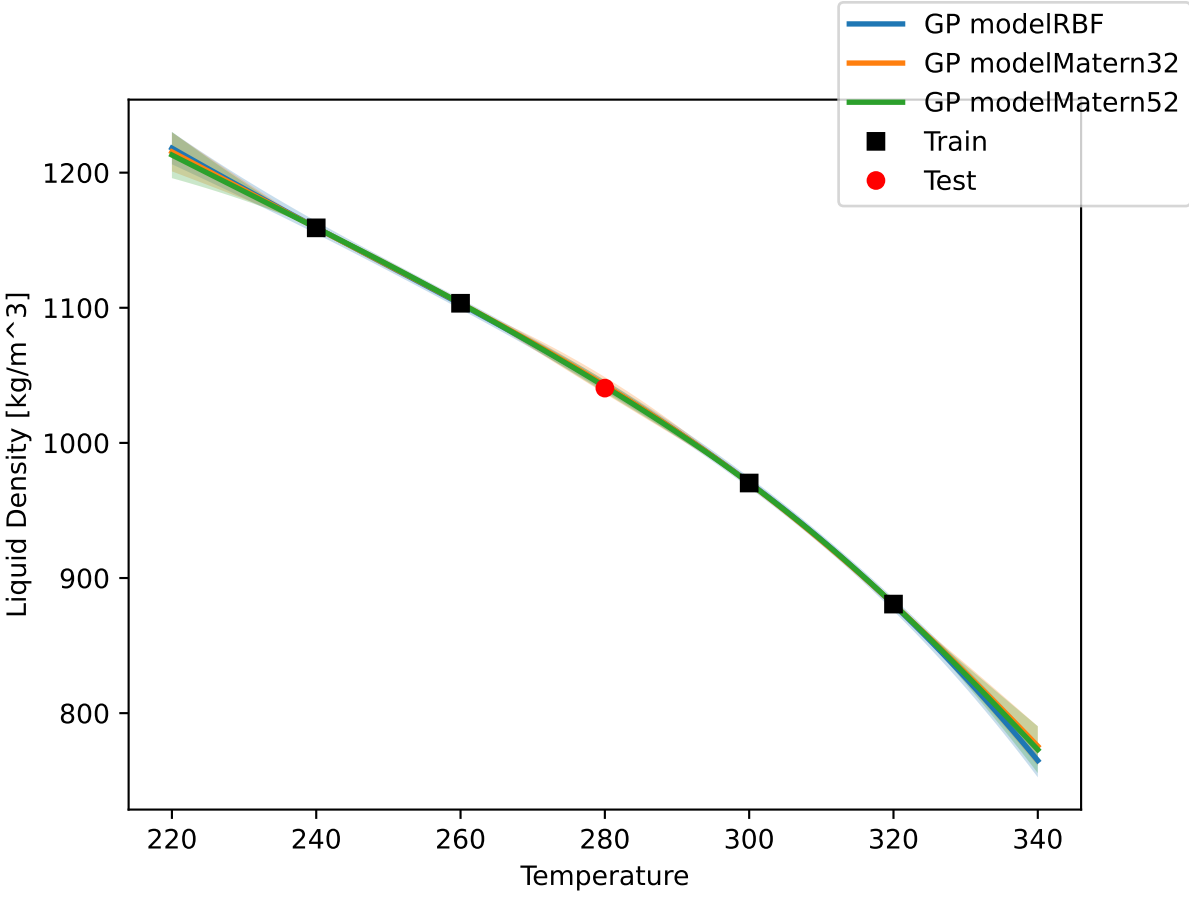
Temperature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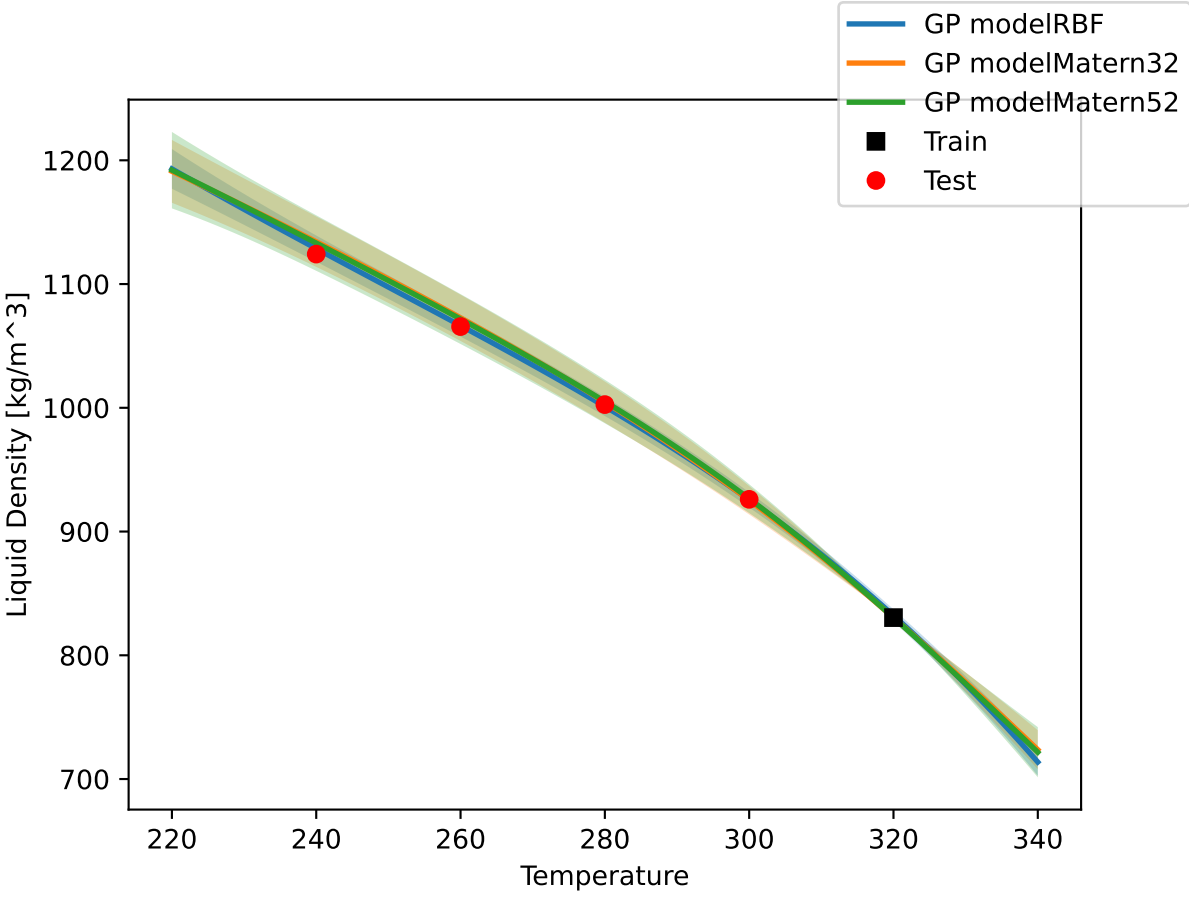
Temperature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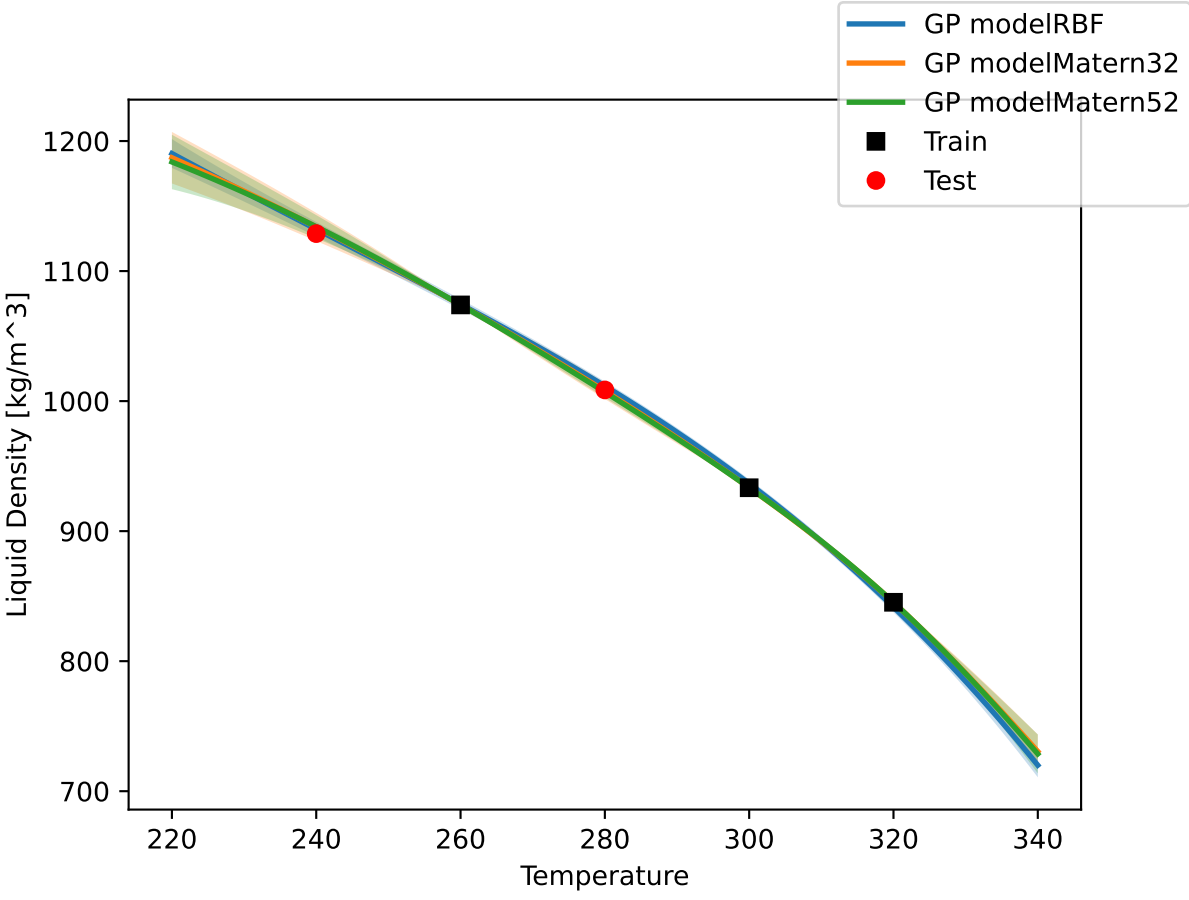
Temperature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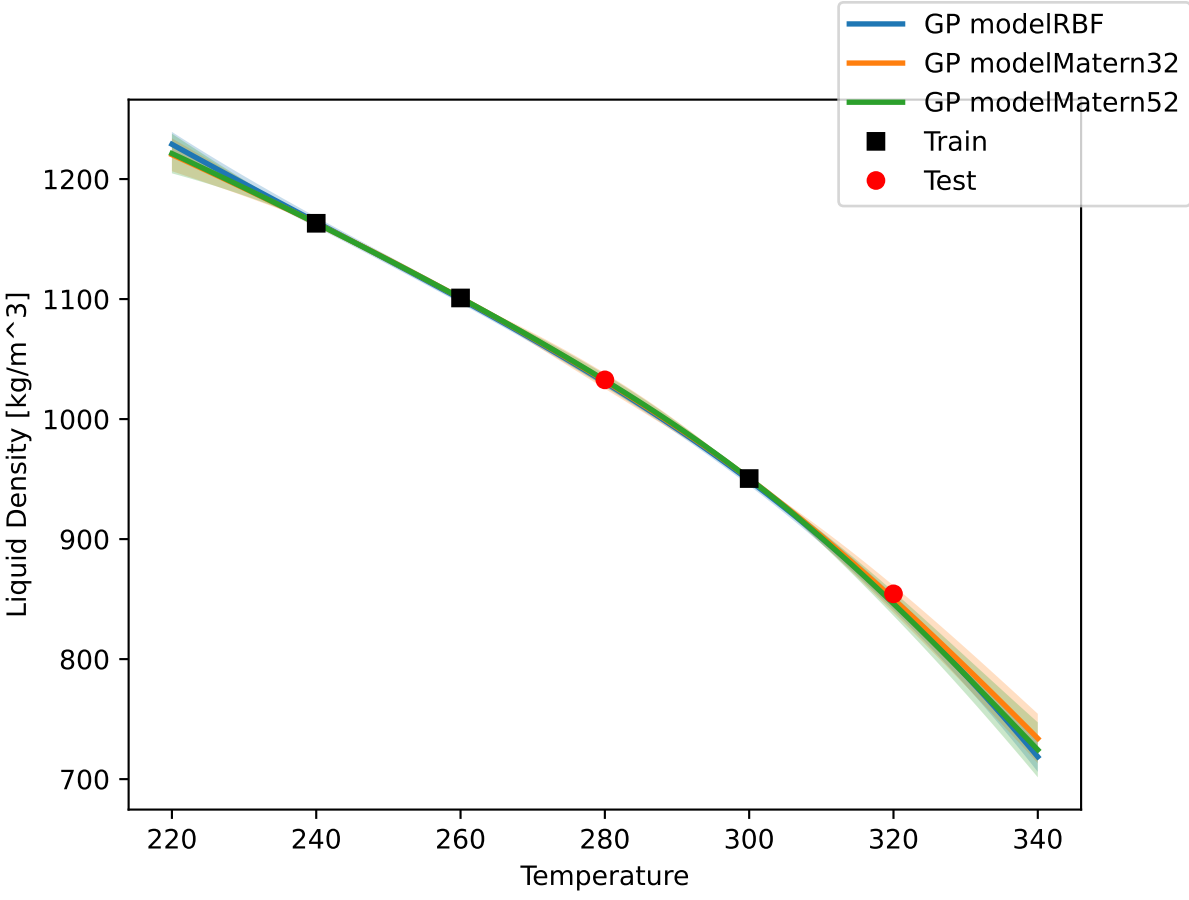
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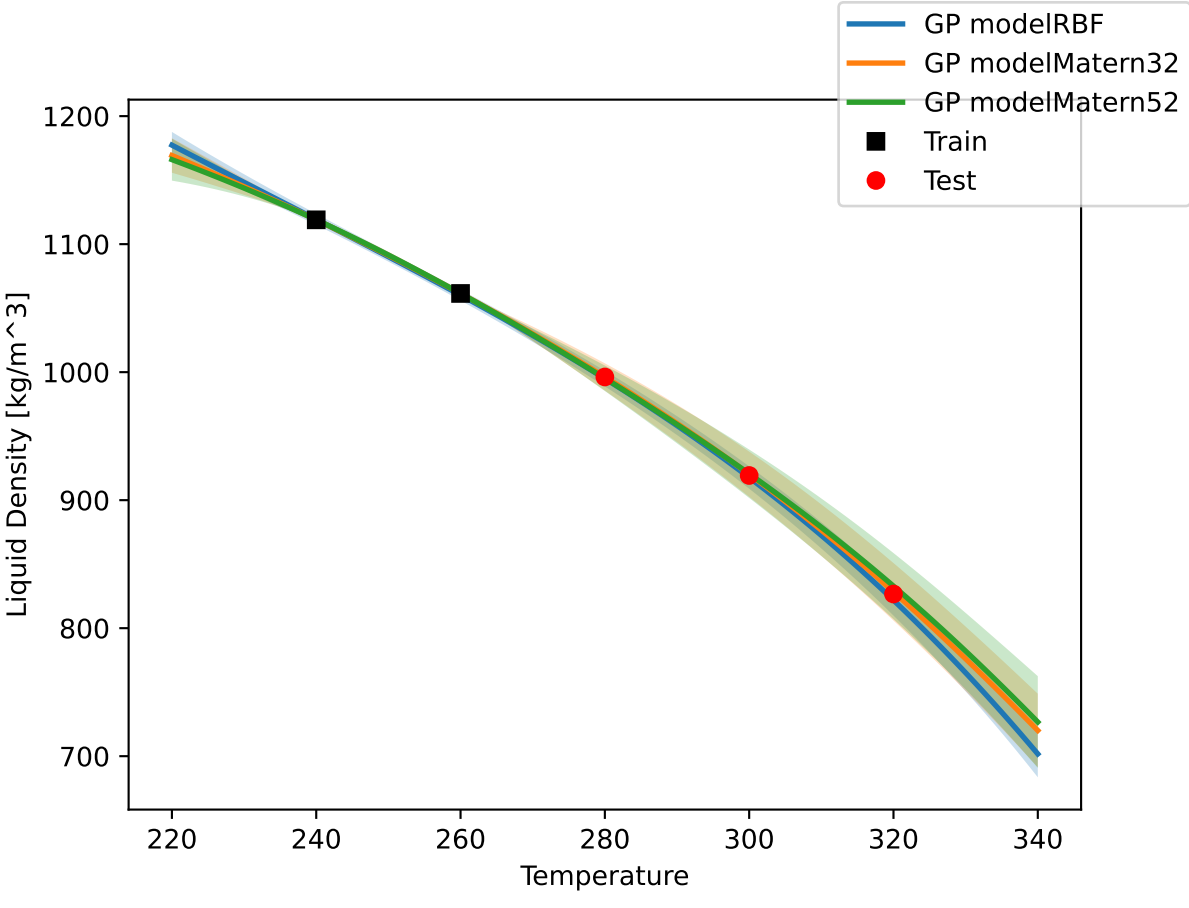
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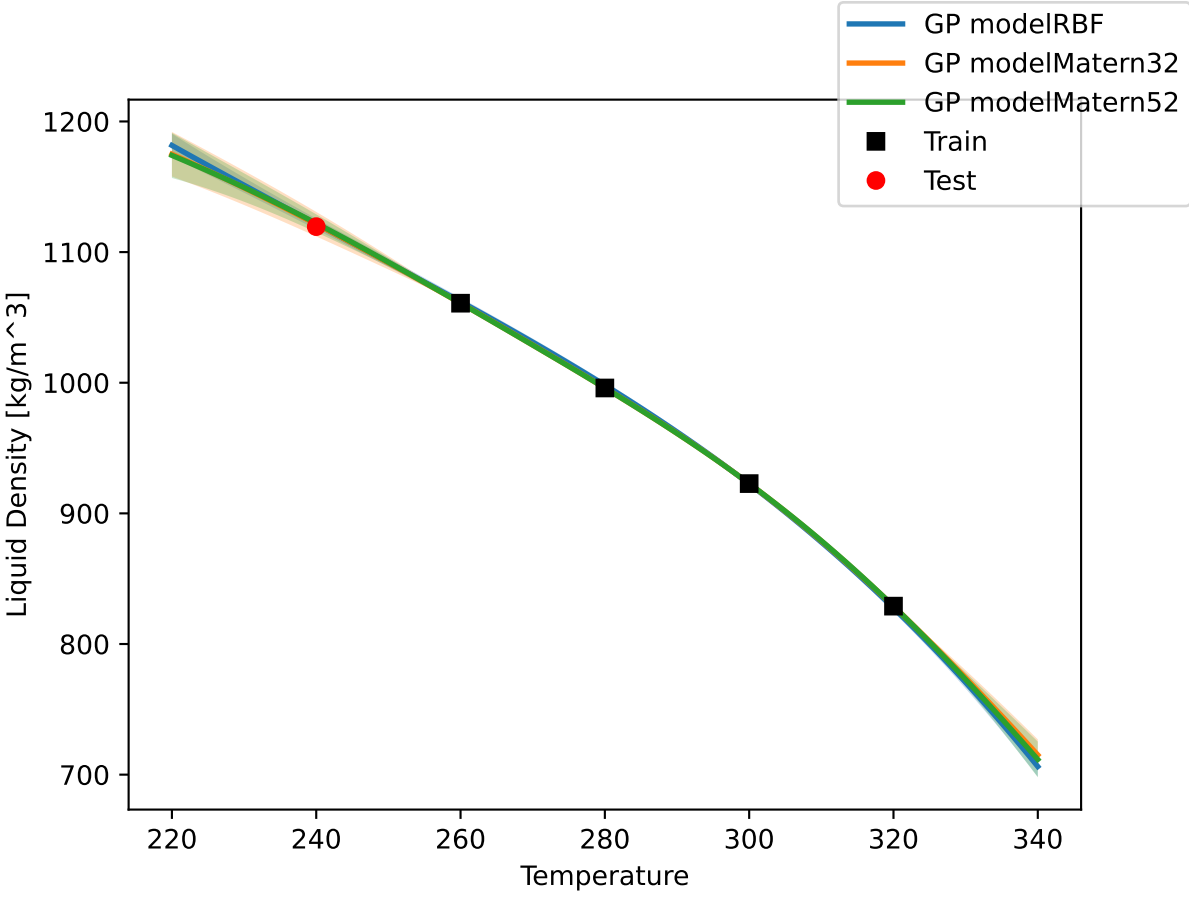
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Liquid Density [kg/m^3]
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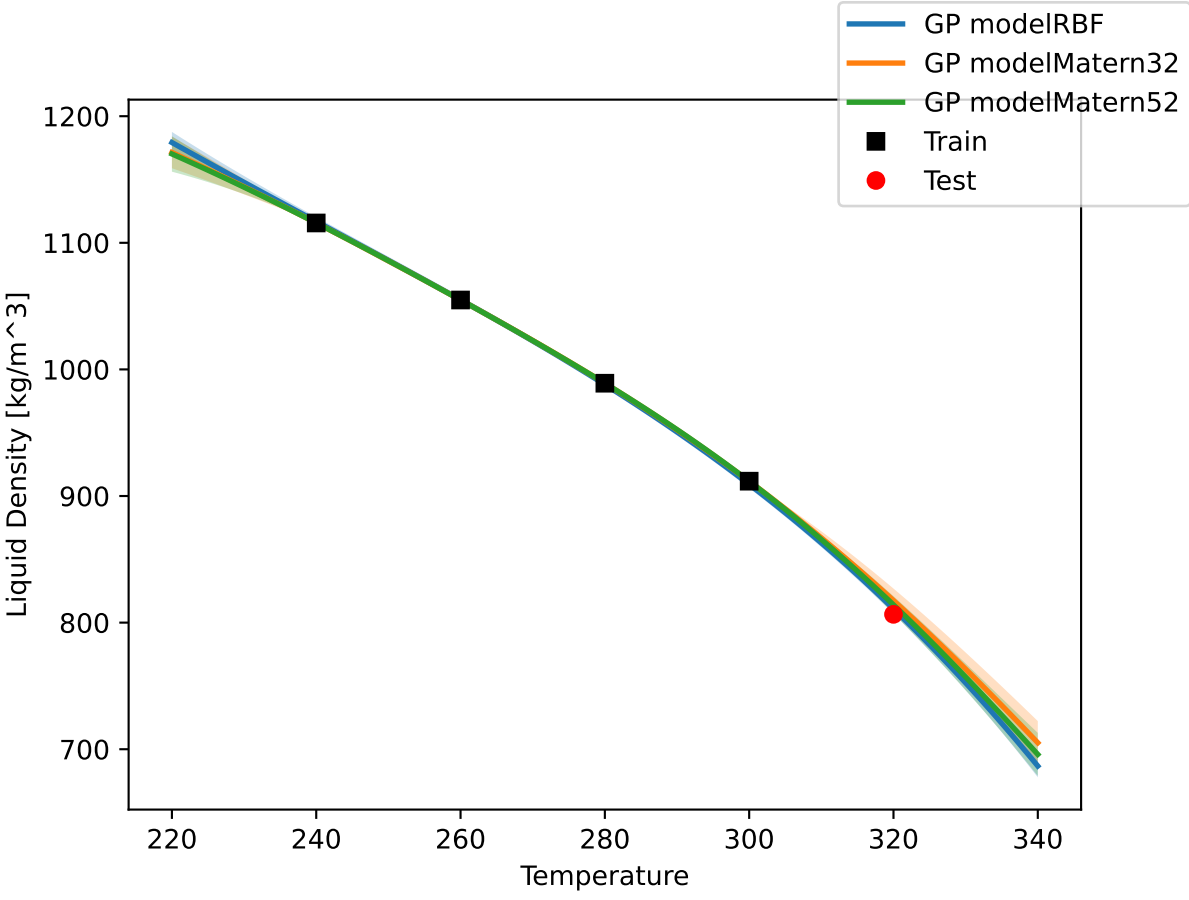
Temperature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Liquid Density [kg/m^3]
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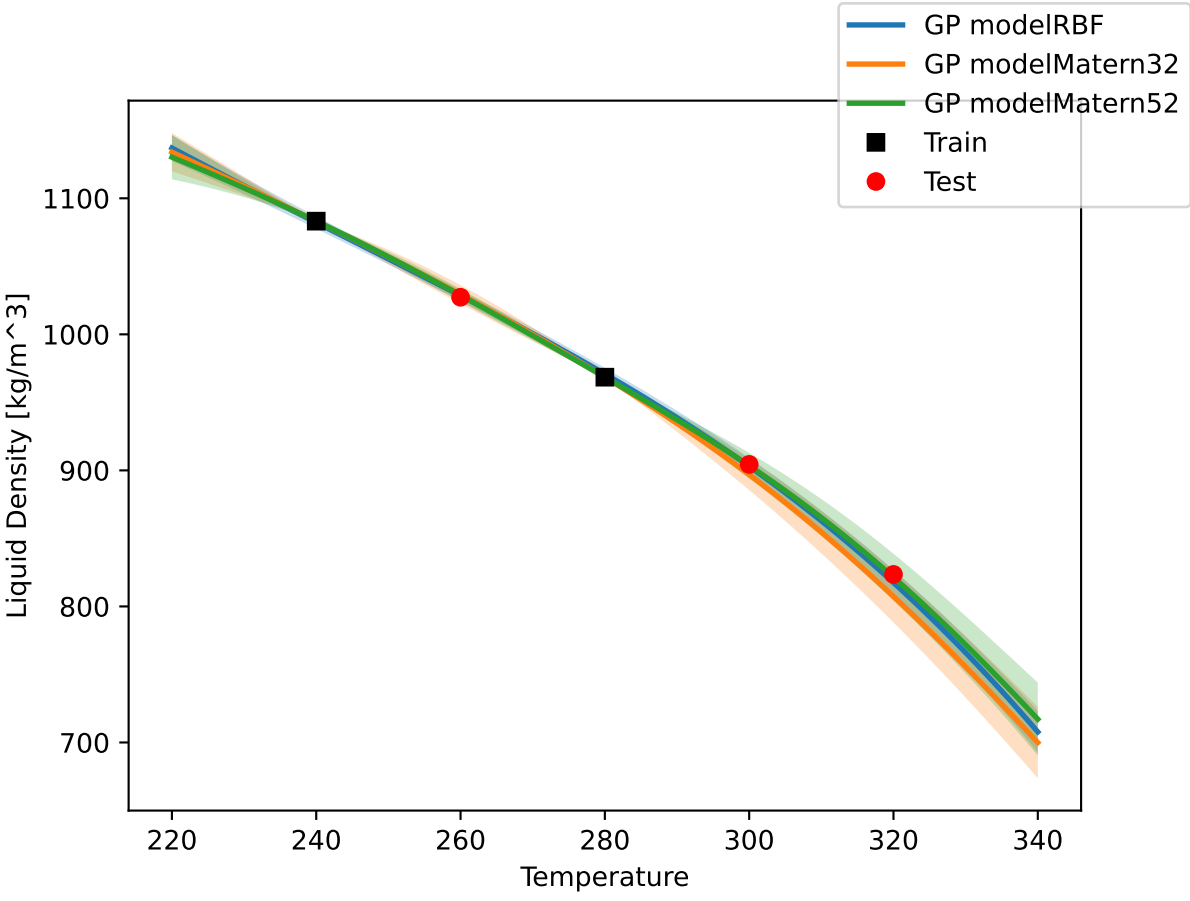
Temperature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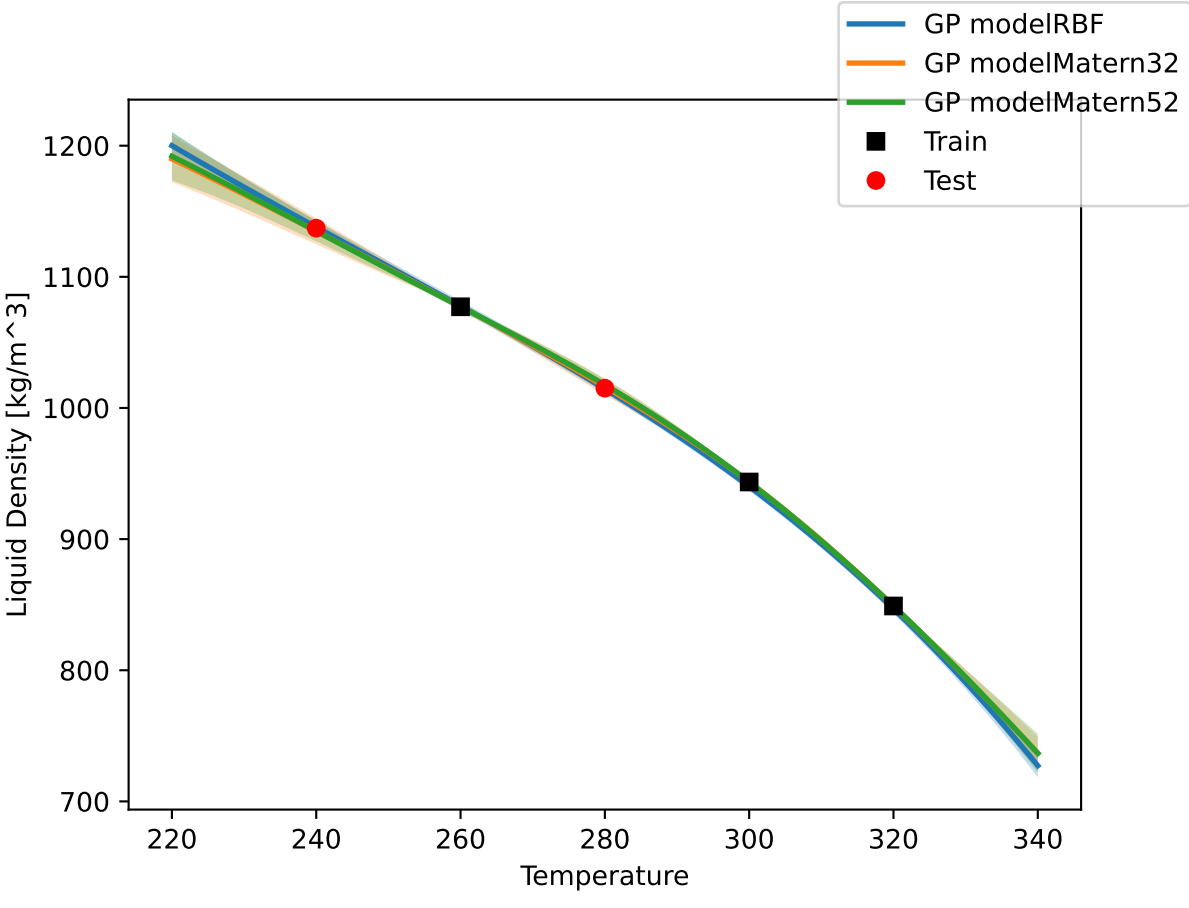
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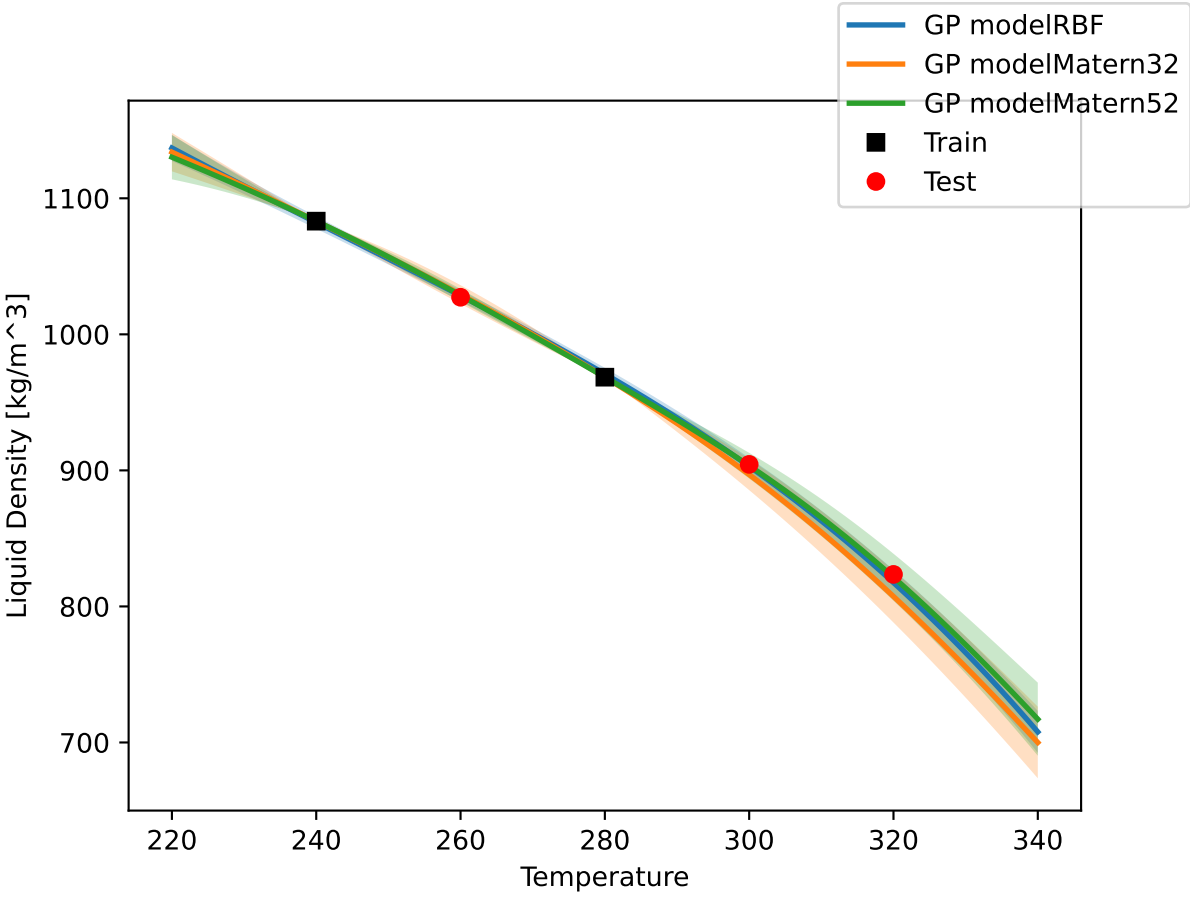
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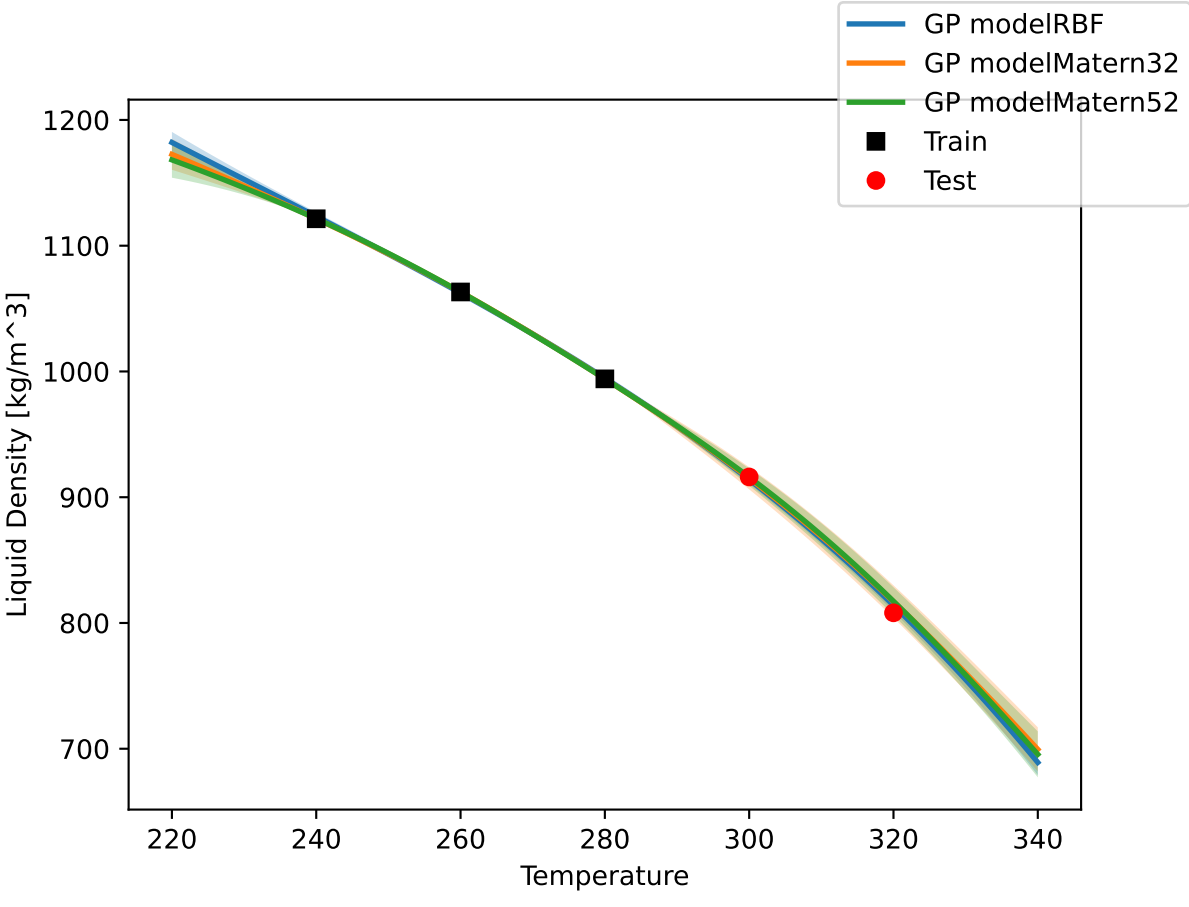
Temperature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Liquid Density [kg/m^3]
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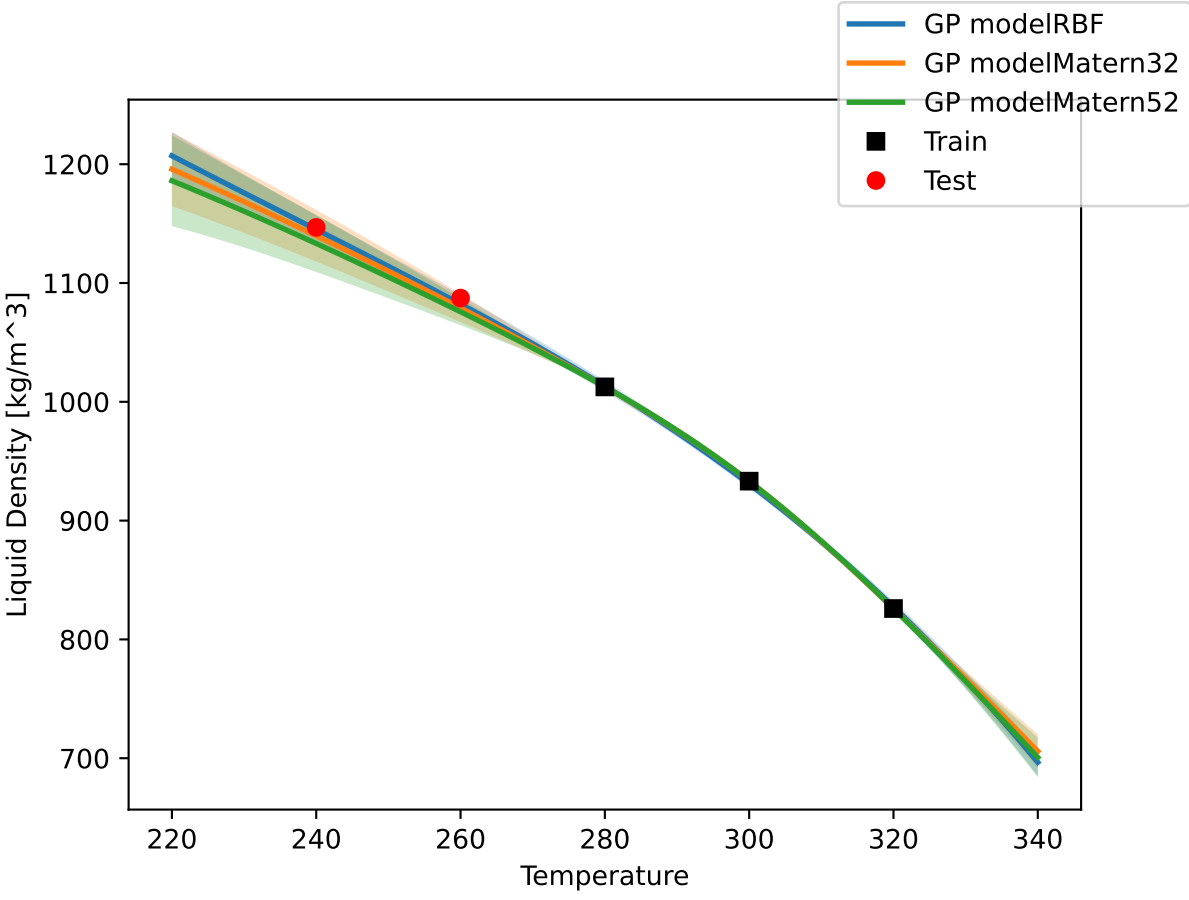
Temperature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Liquid Density [kg/m^3]
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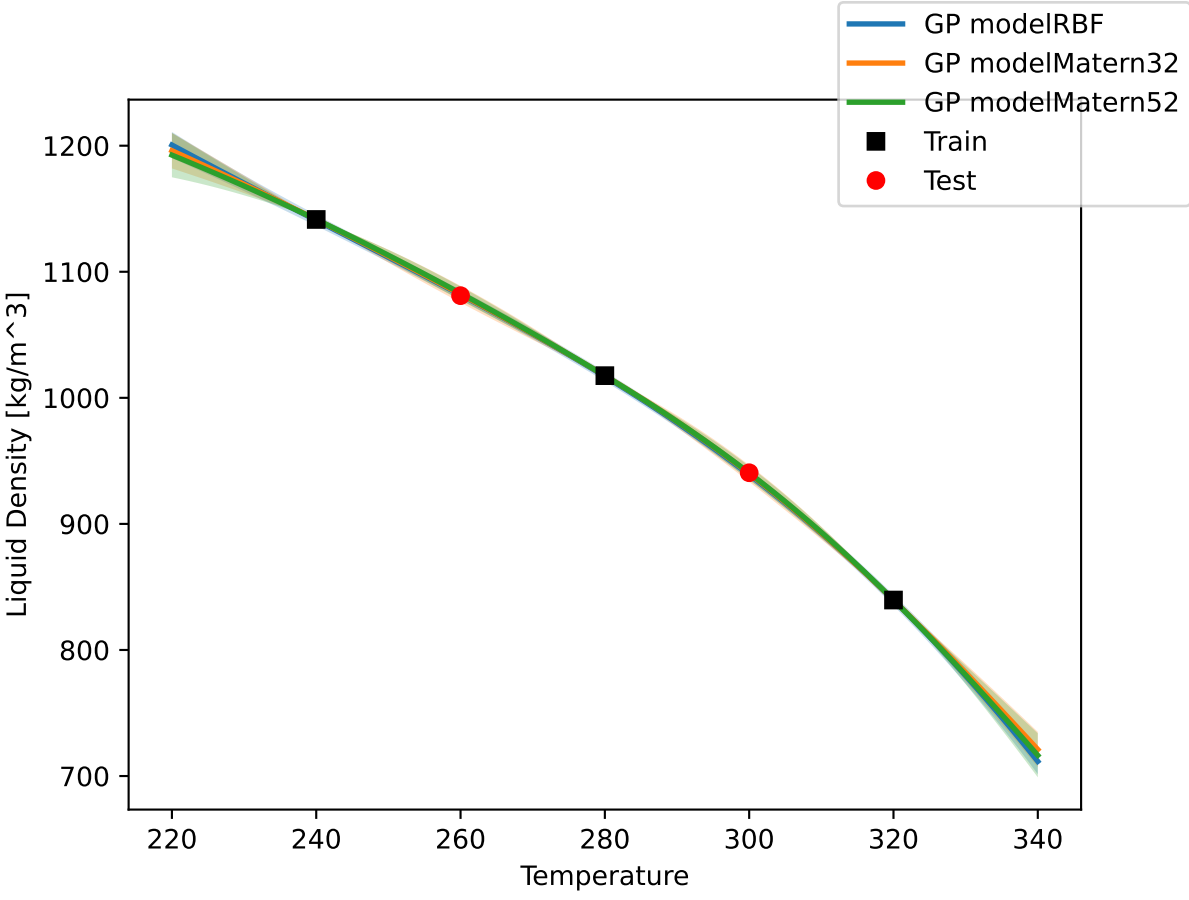
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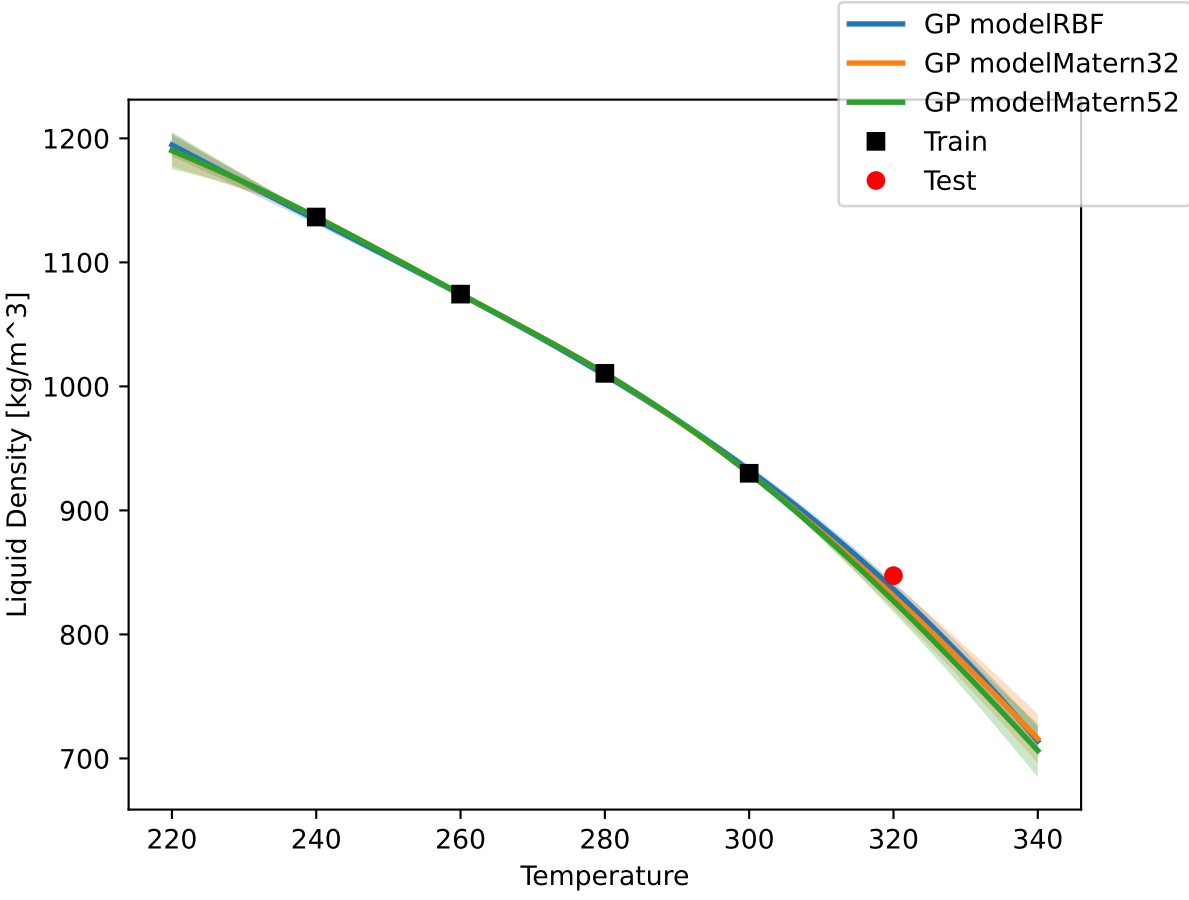
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Liquid Density [kg/m^3]
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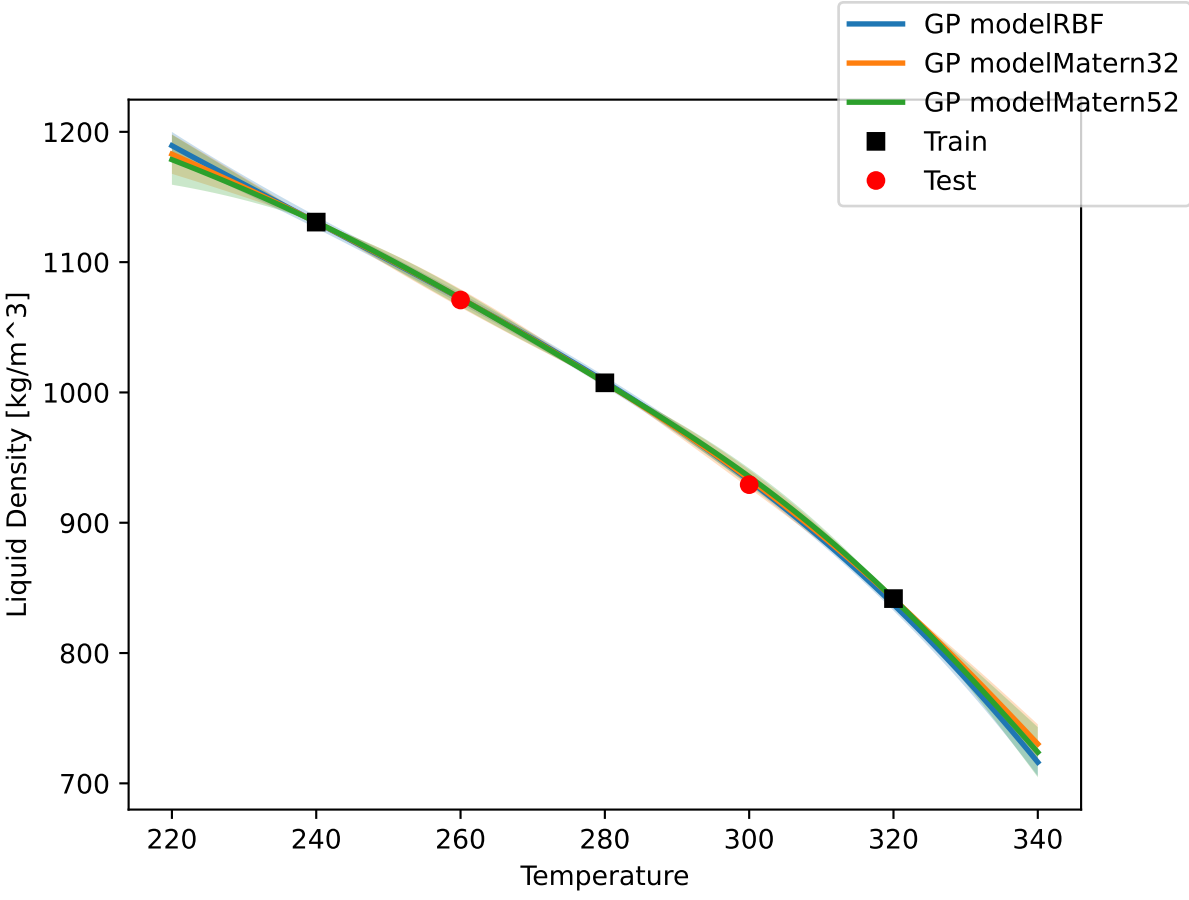
Temperature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Liquid Density [kg/m^3]
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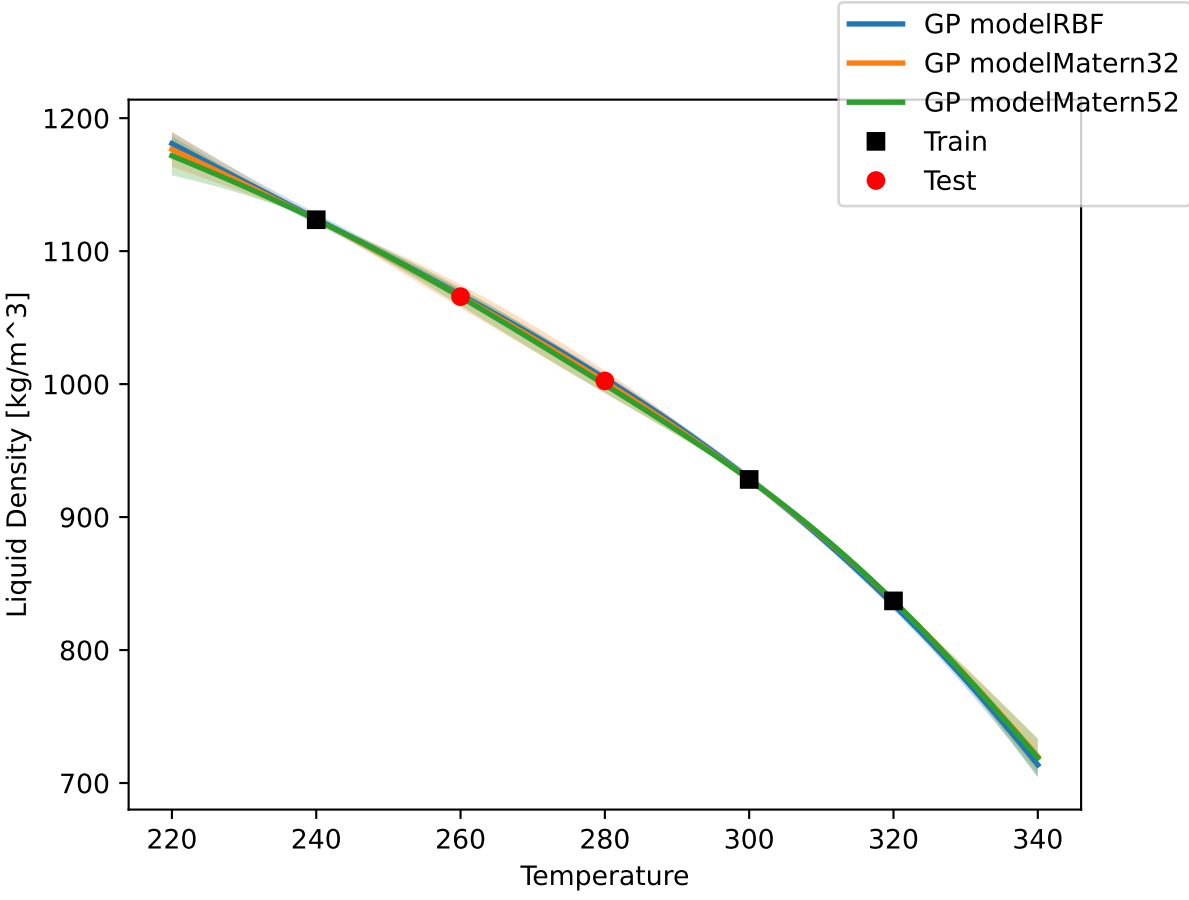
Temperature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Liquid Density [kg/m^3]
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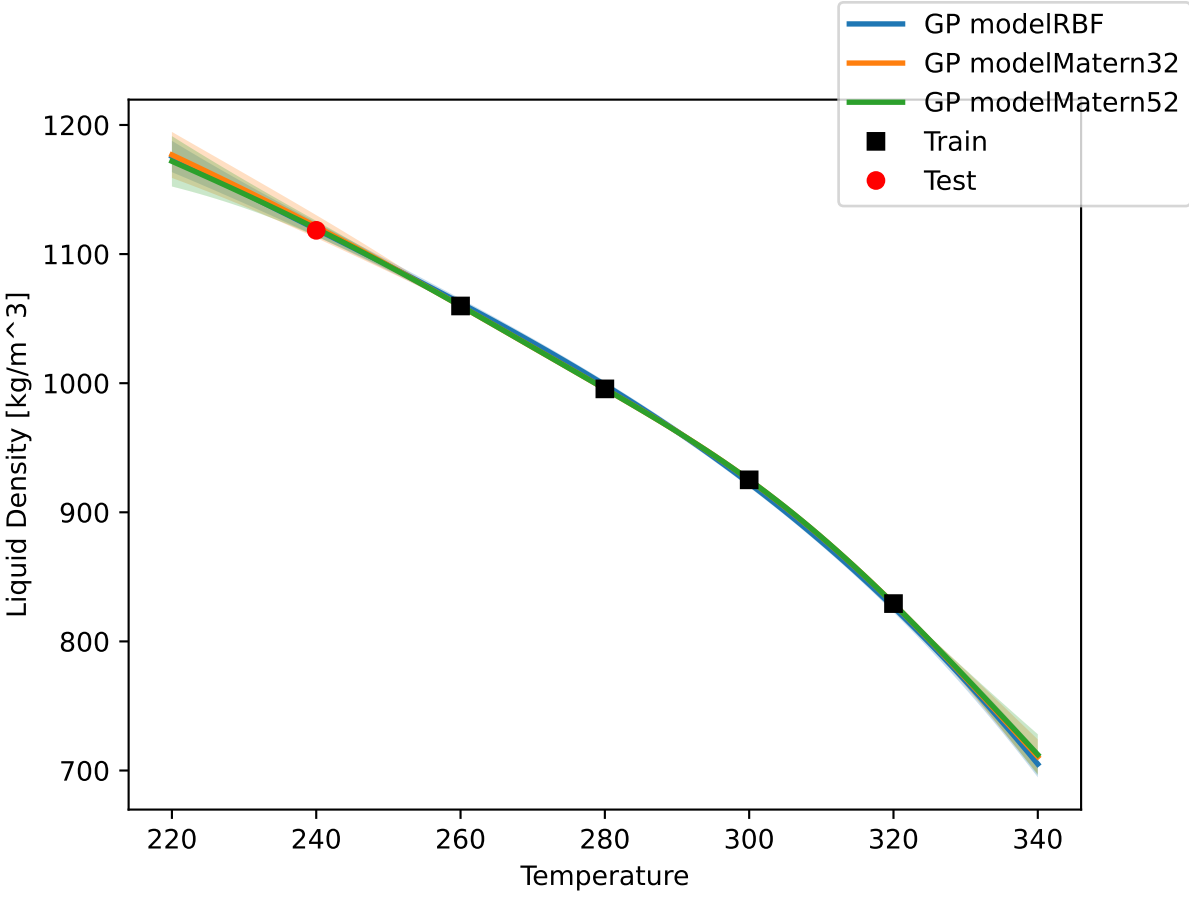
Temperature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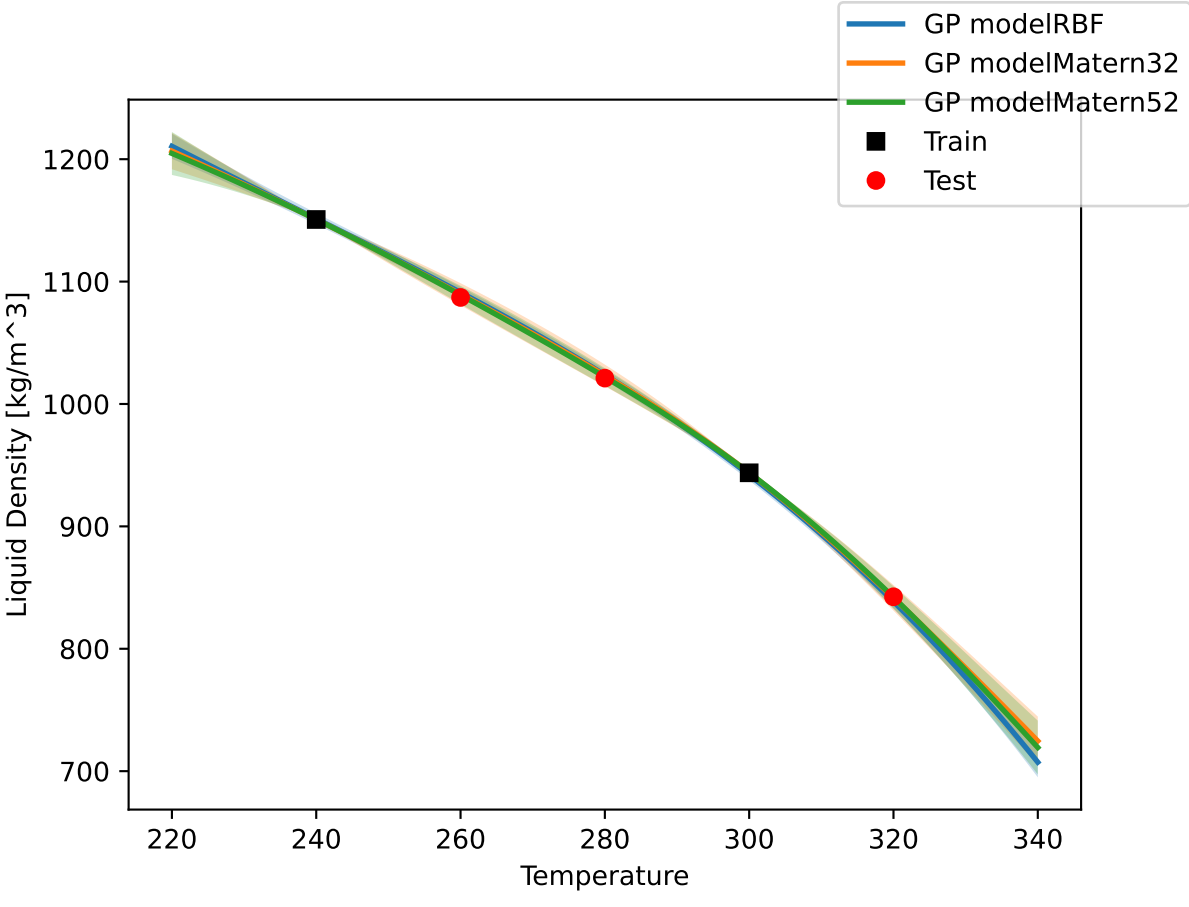
Temperature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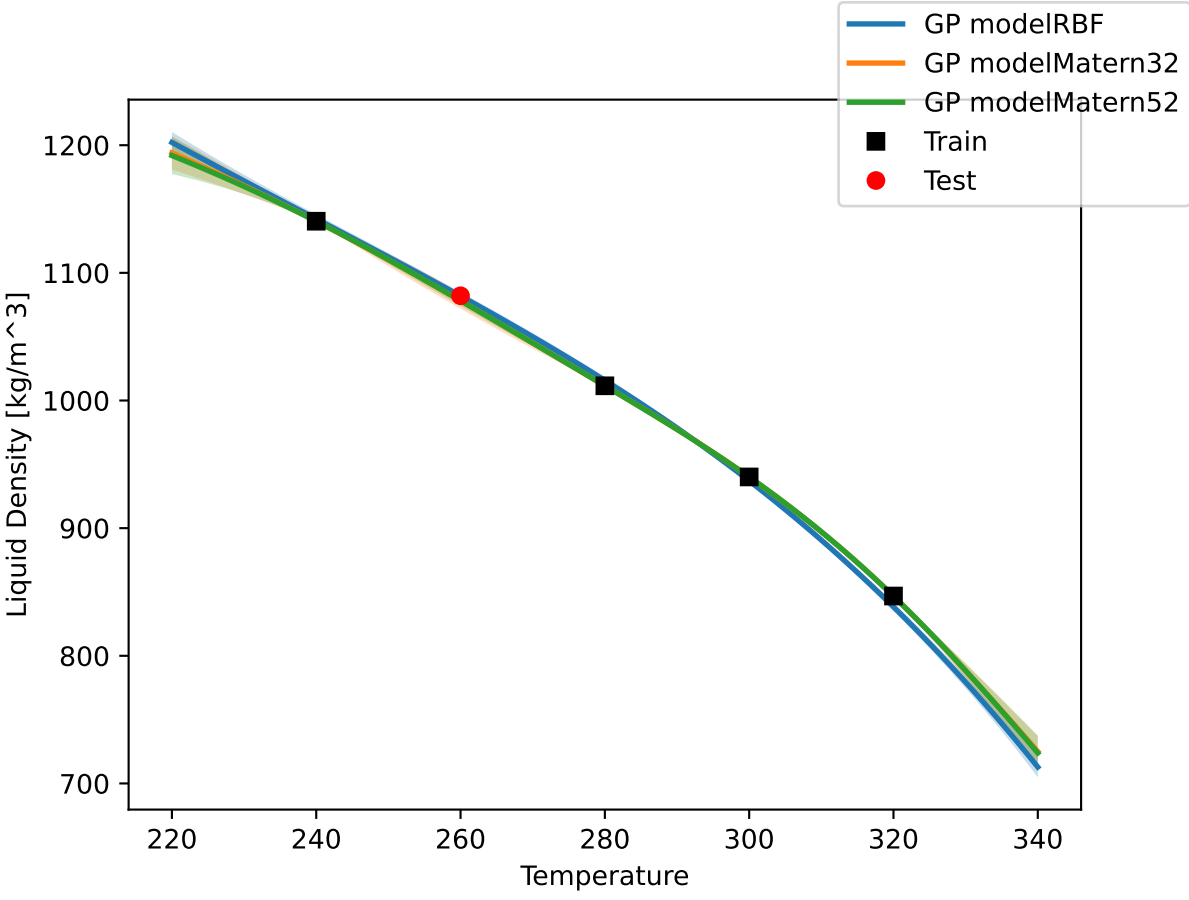
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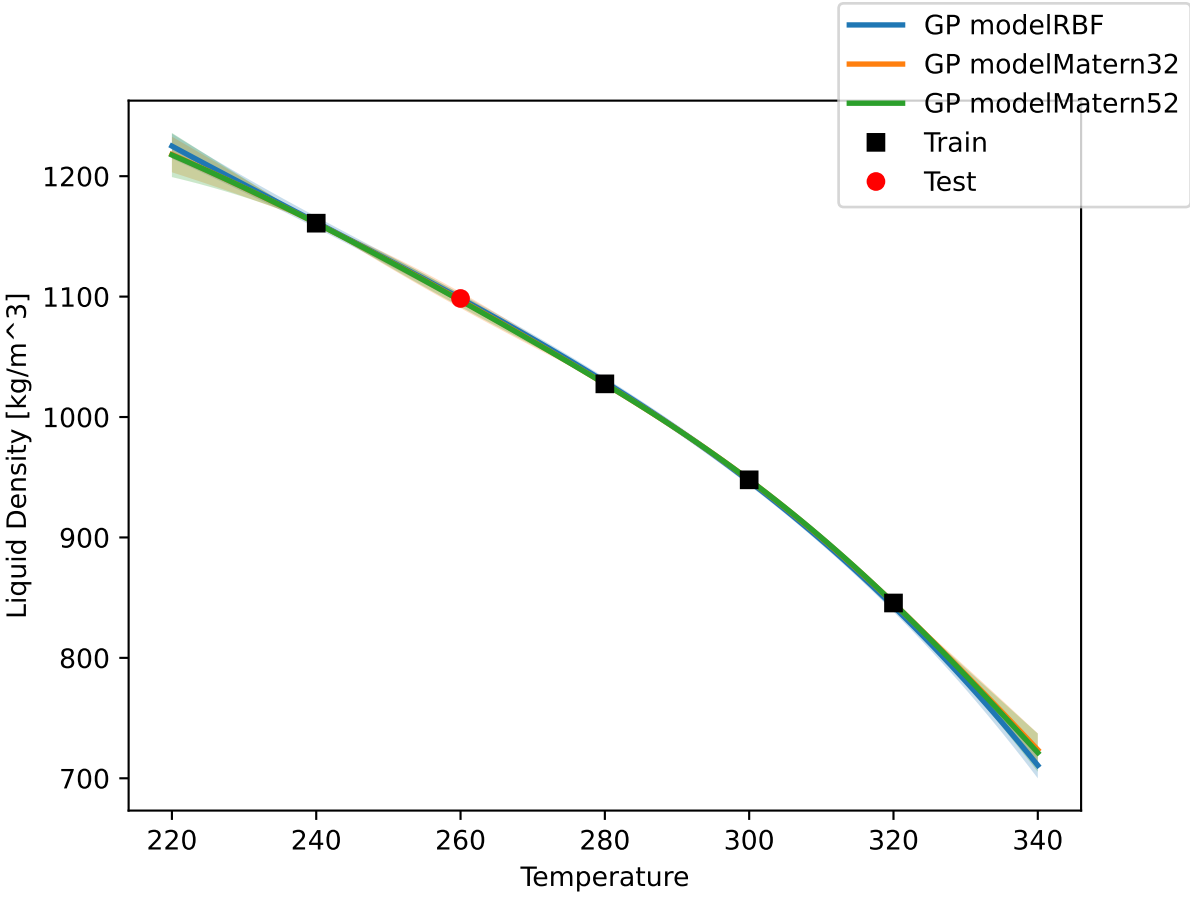
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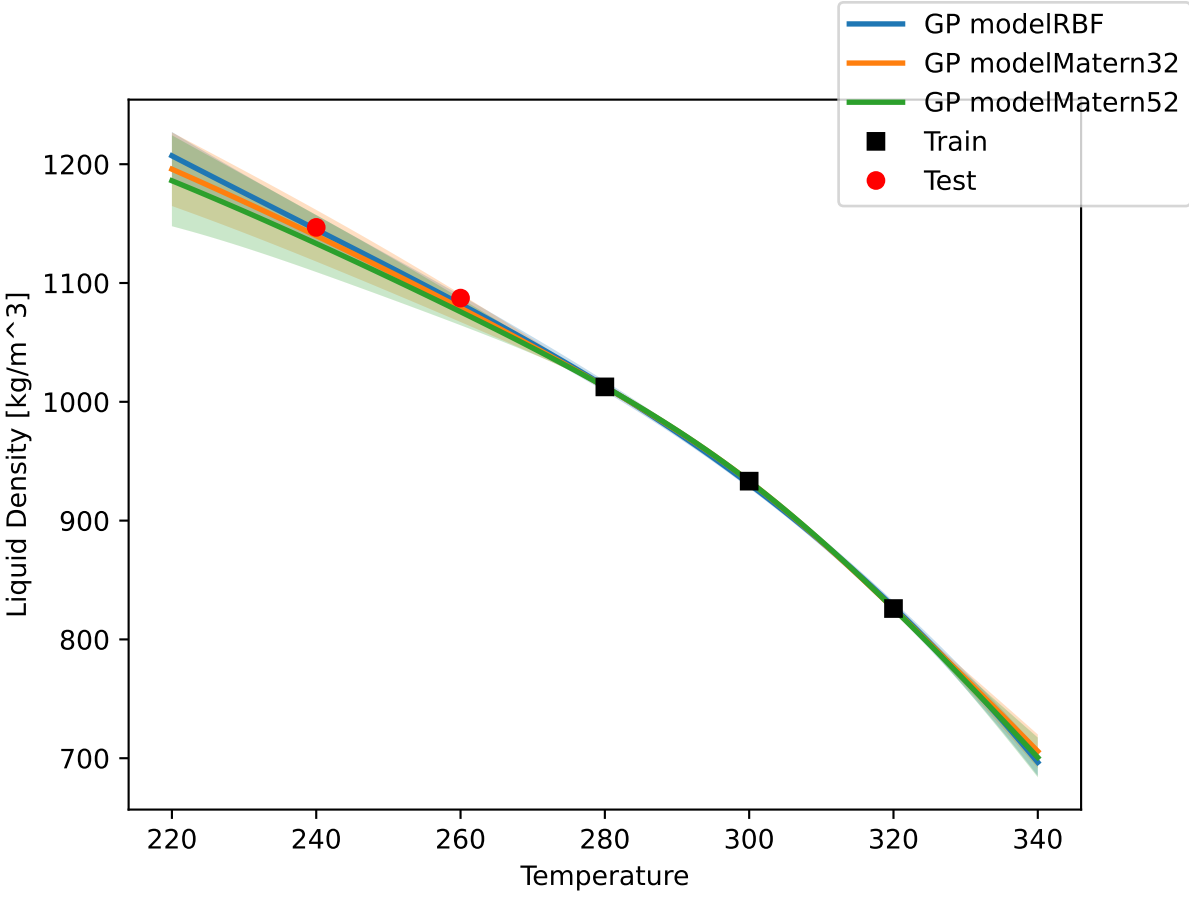
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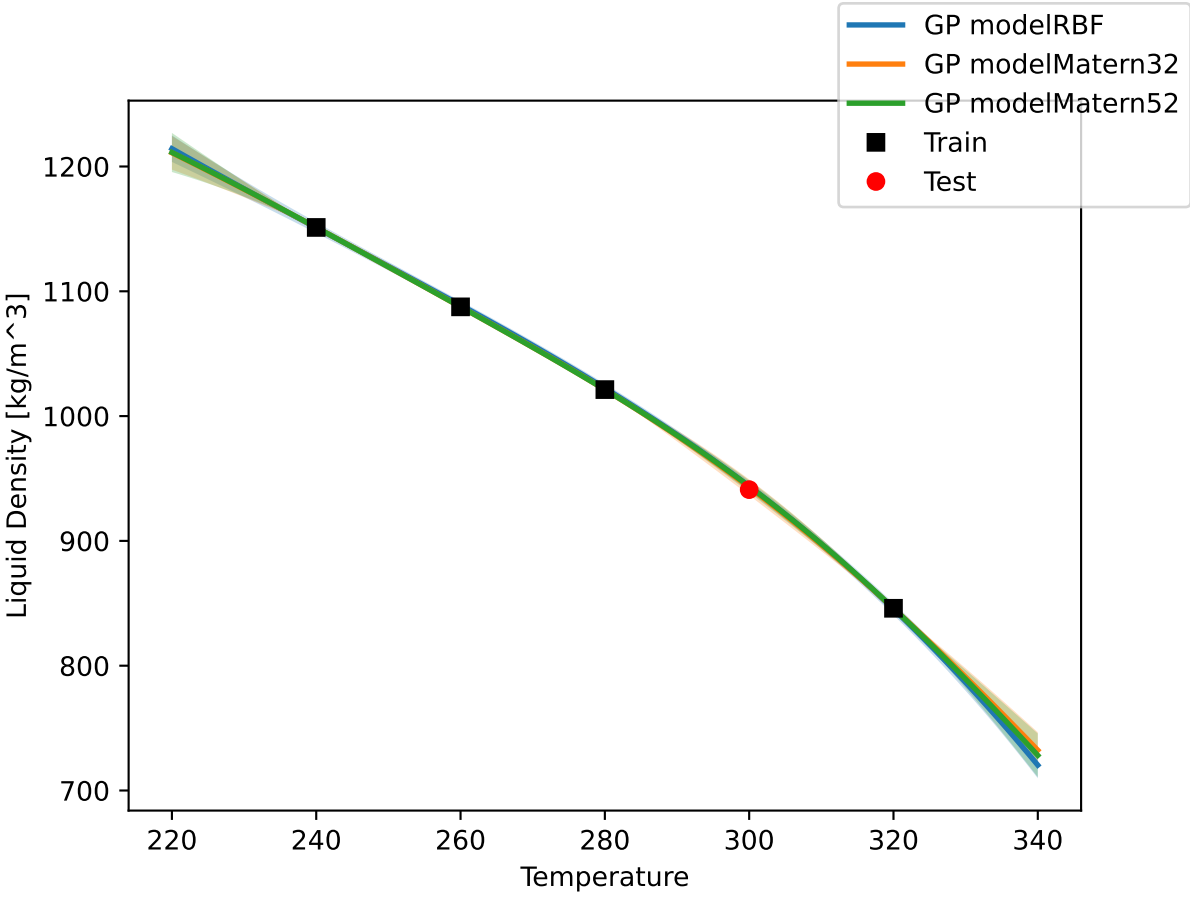
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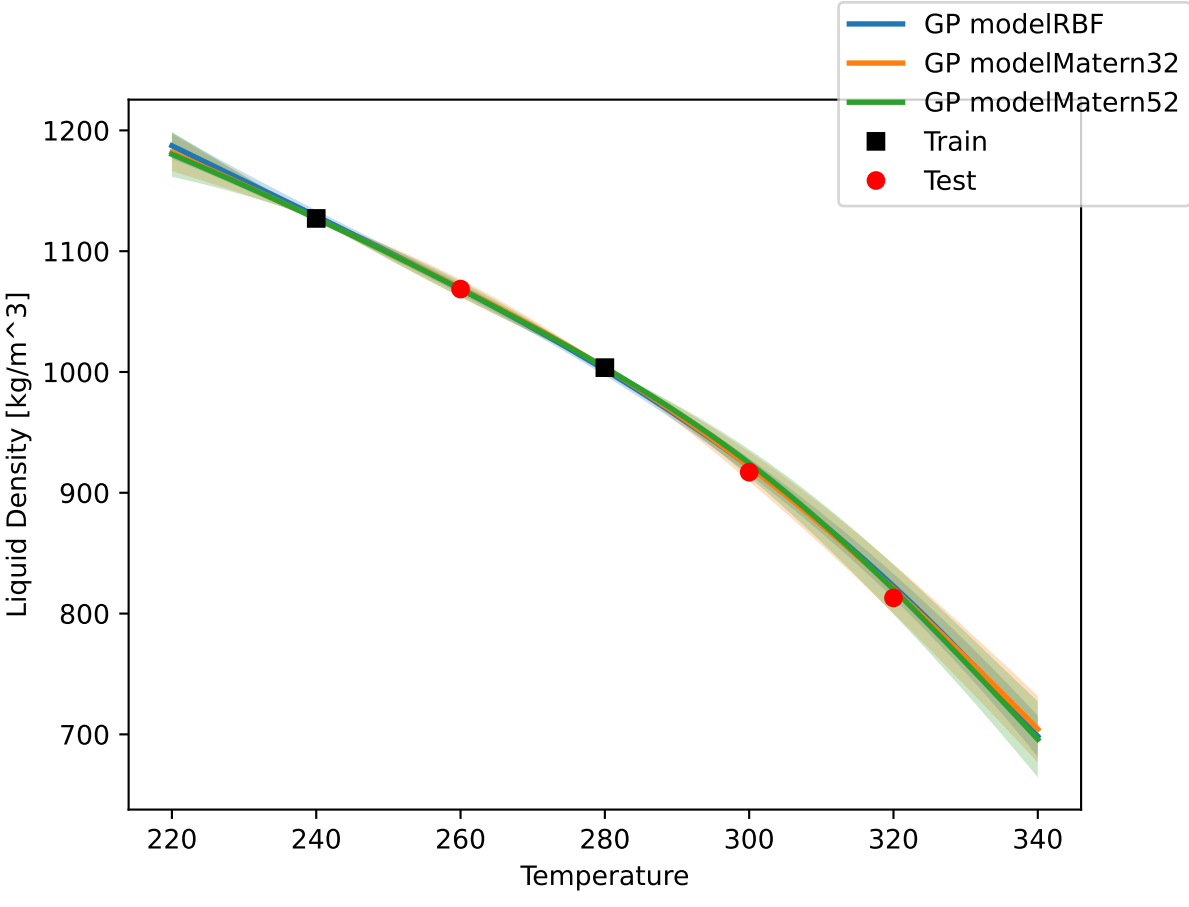
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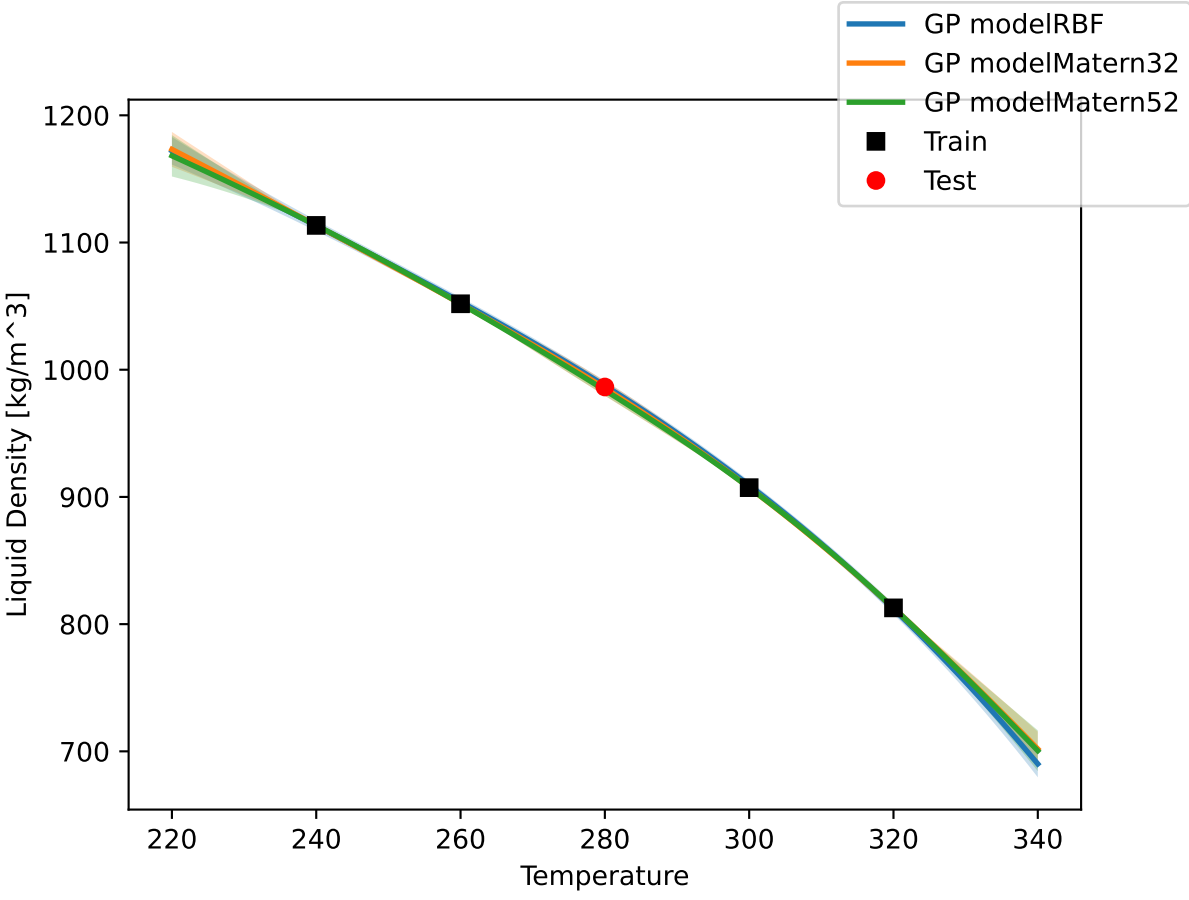
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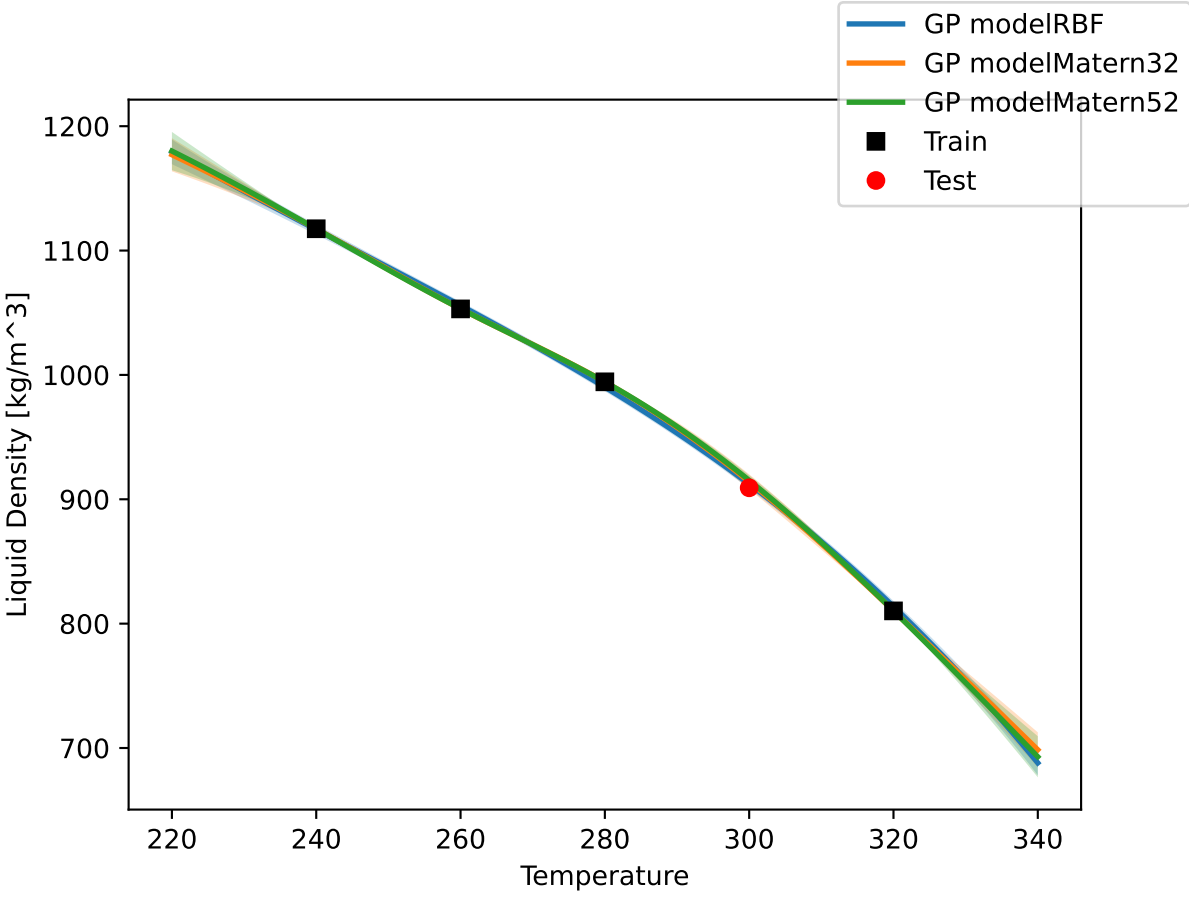
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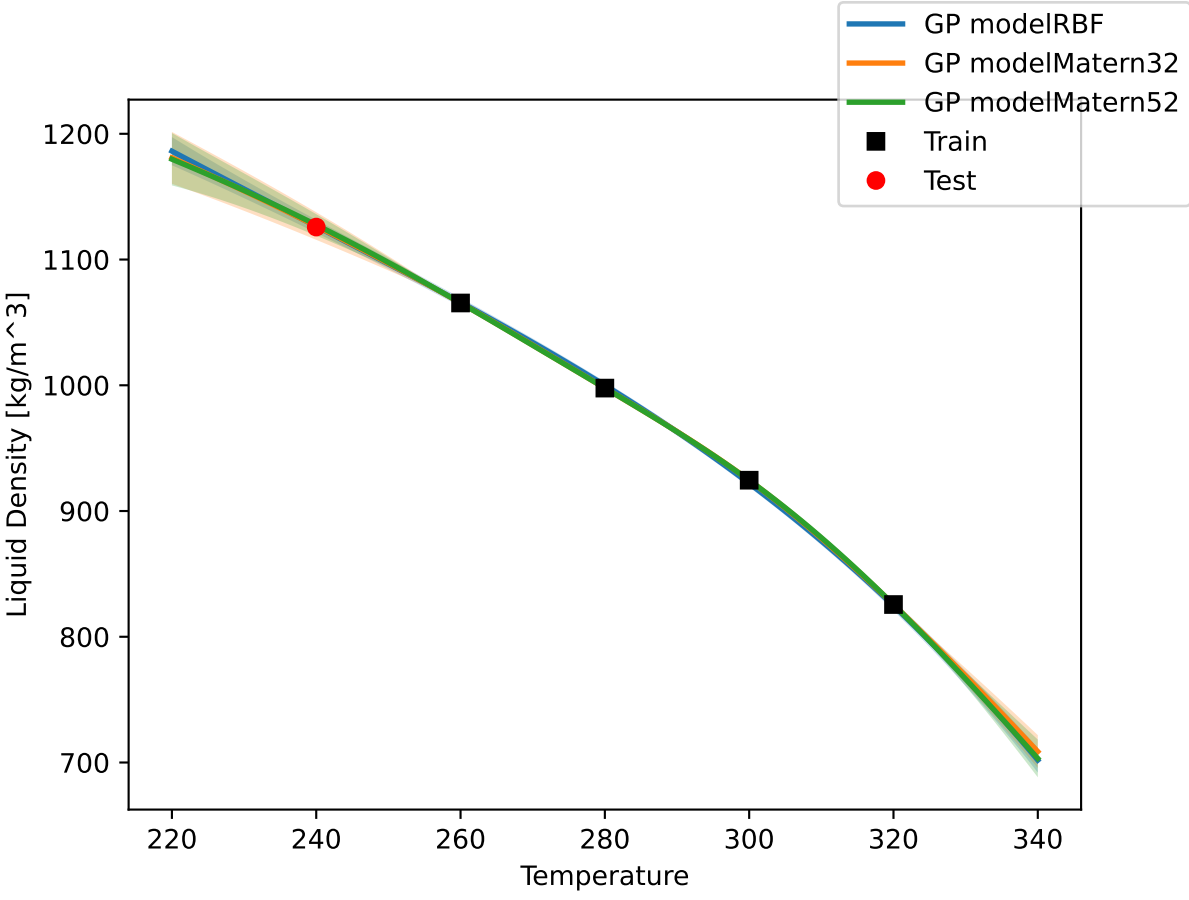
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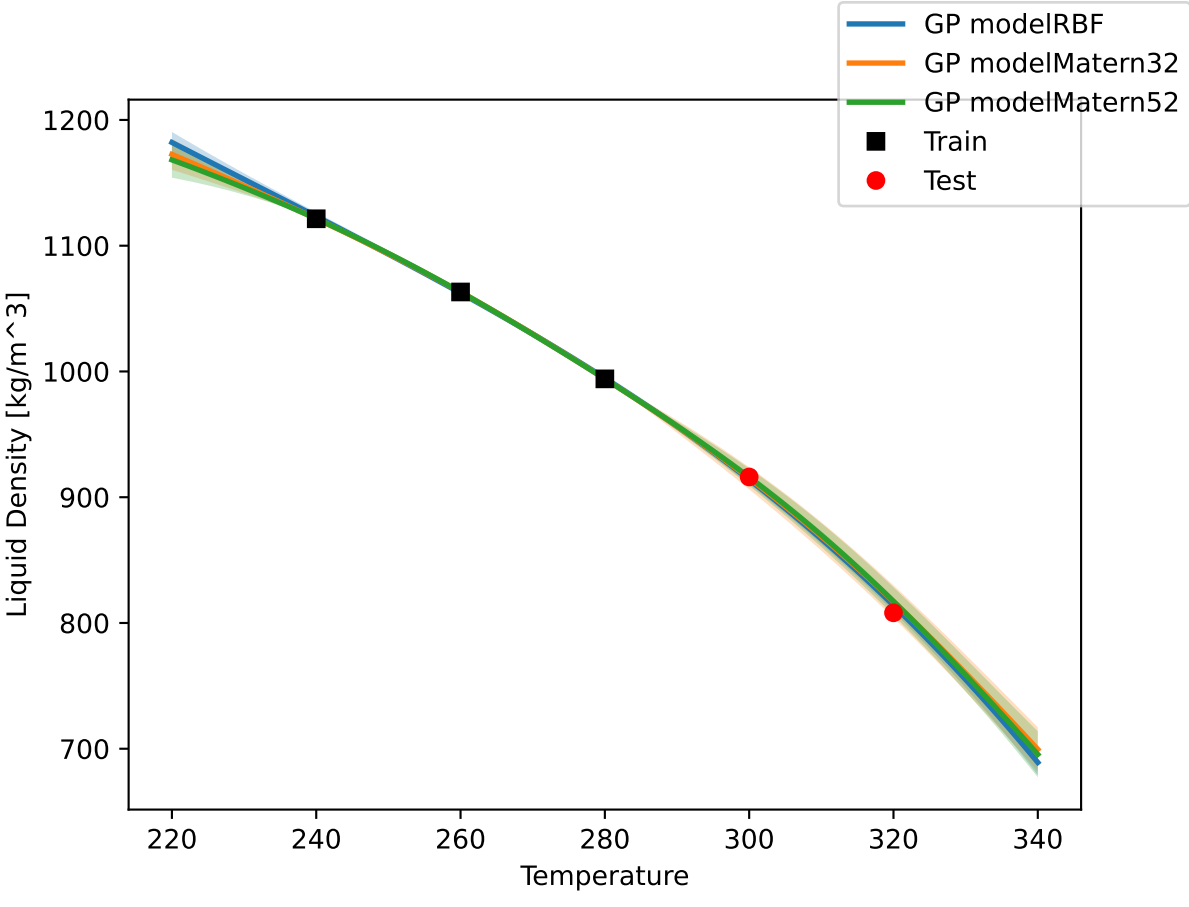
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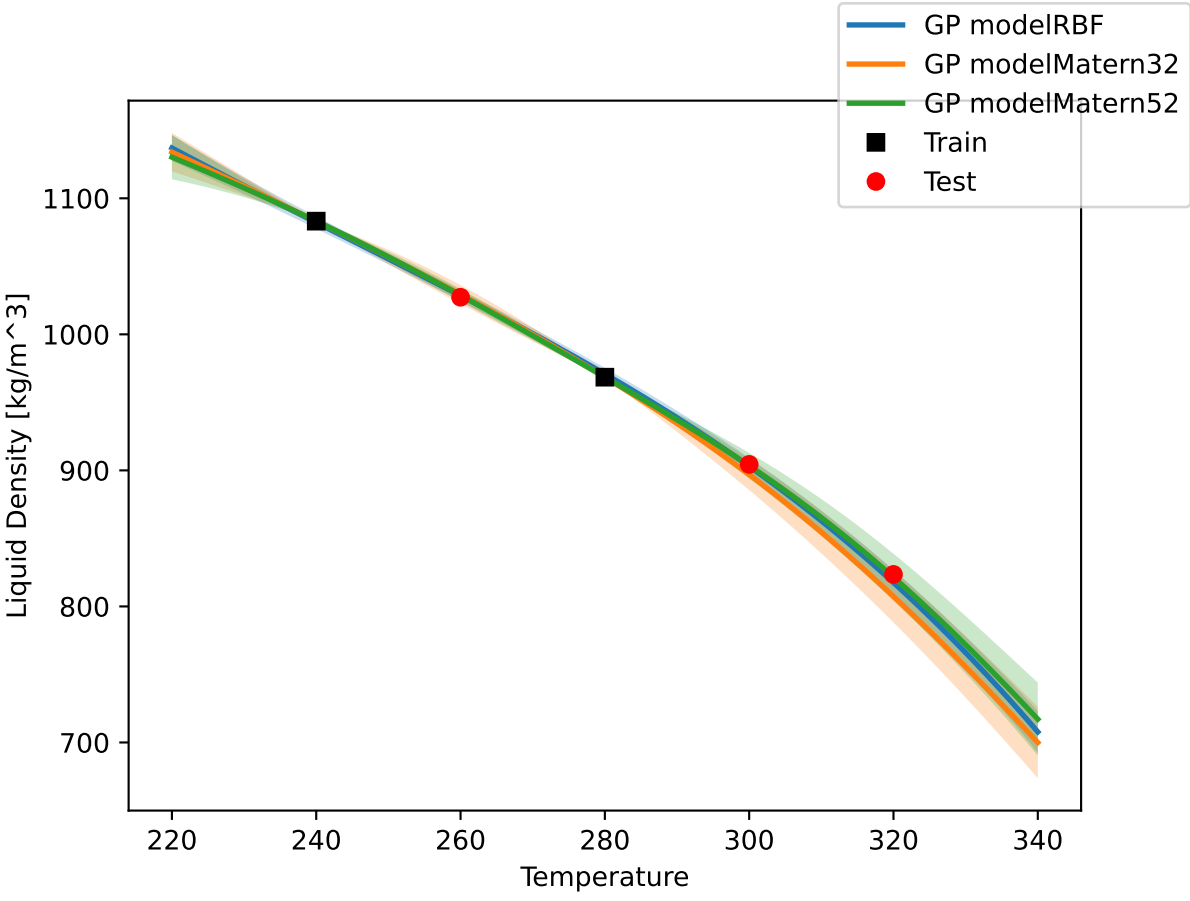
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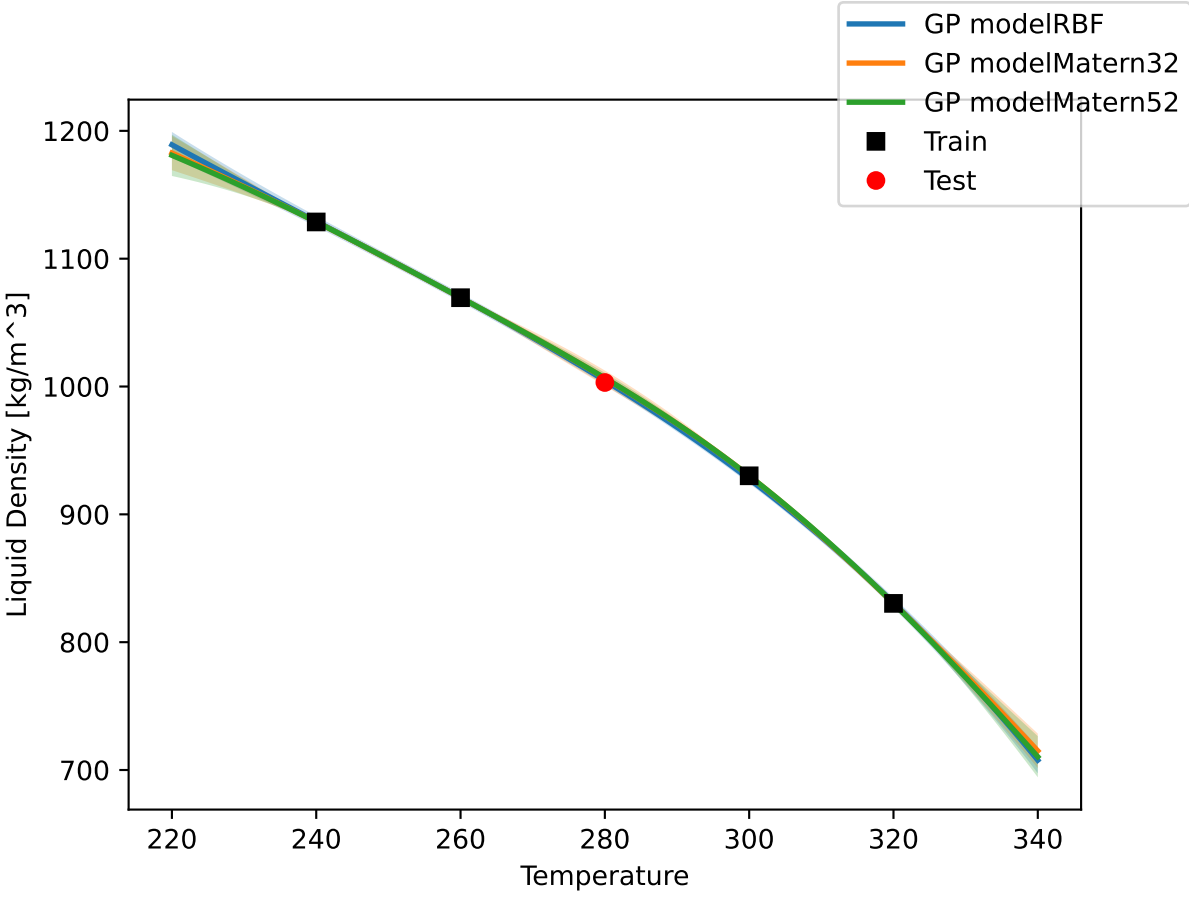
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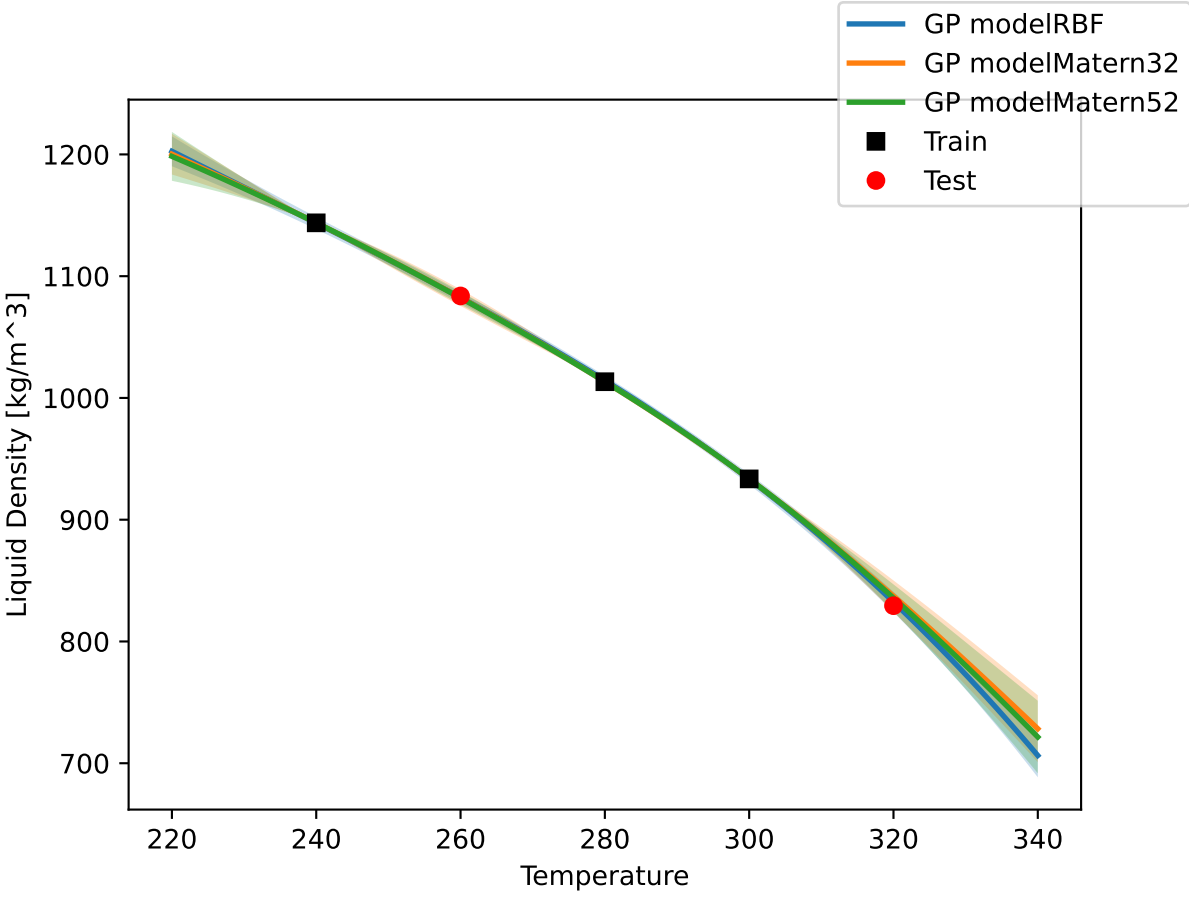
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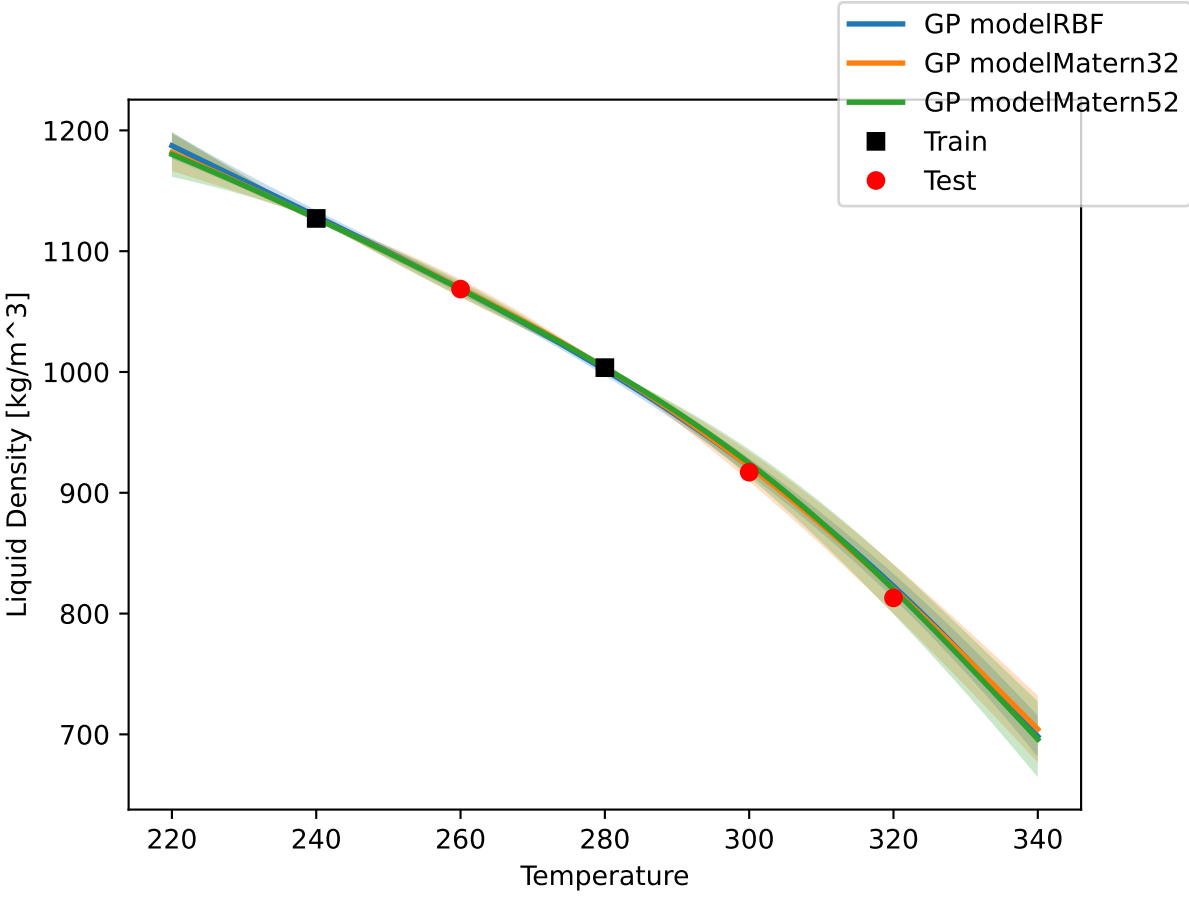
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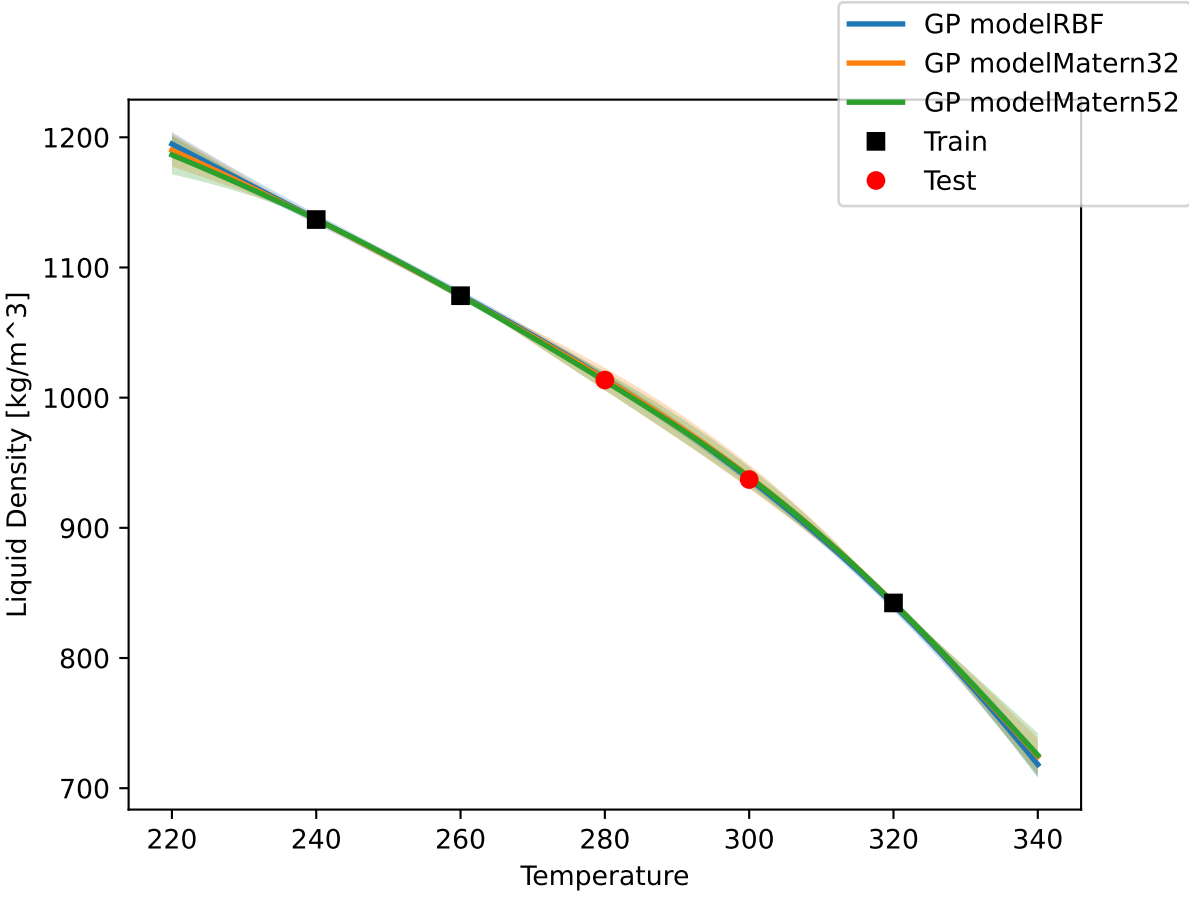
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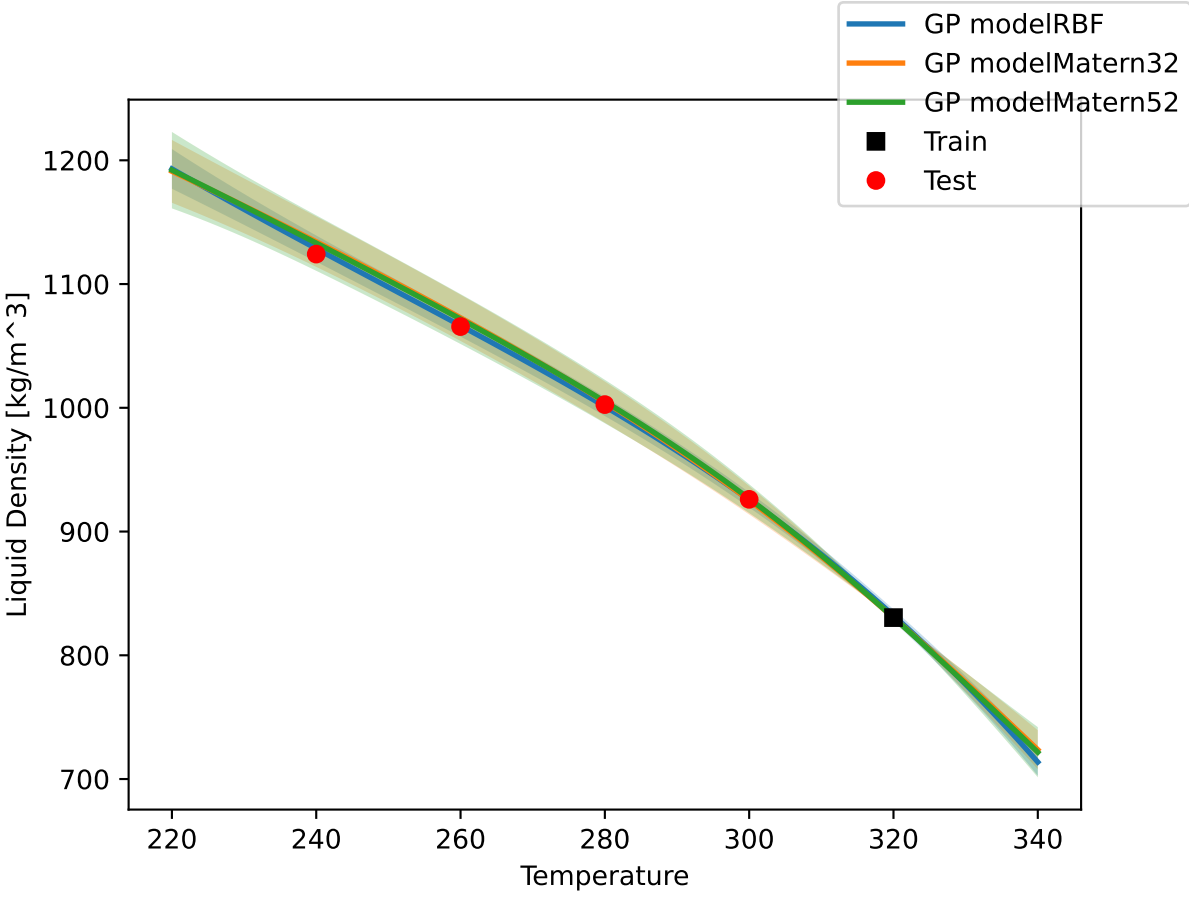
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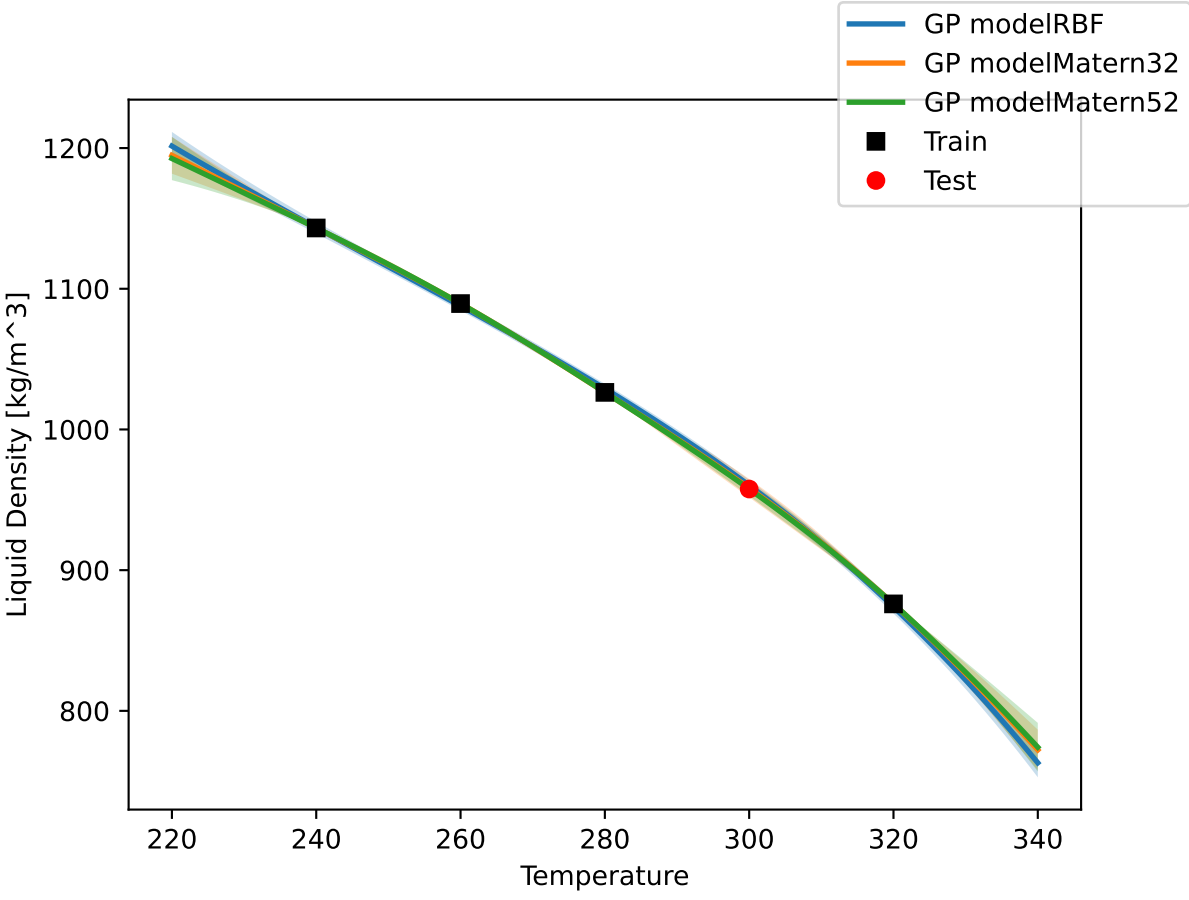
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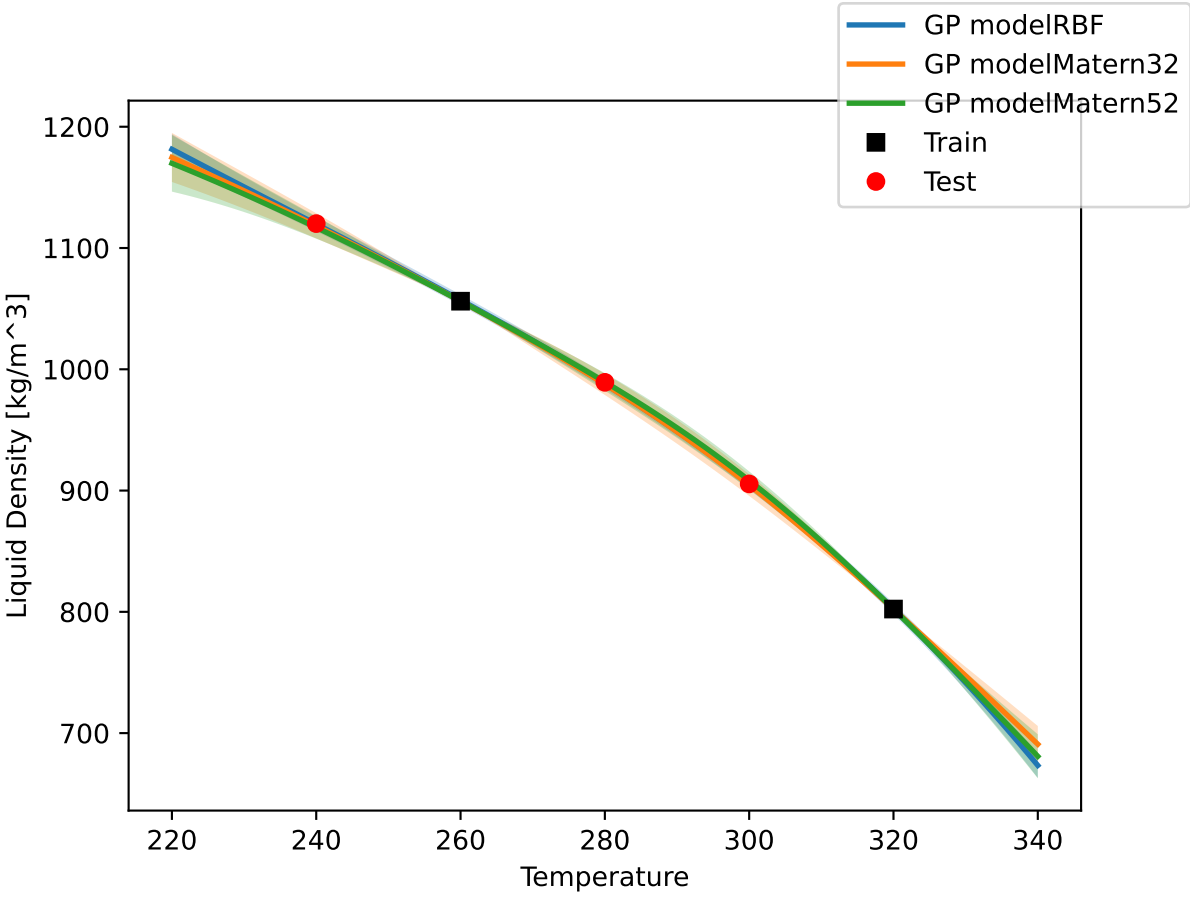
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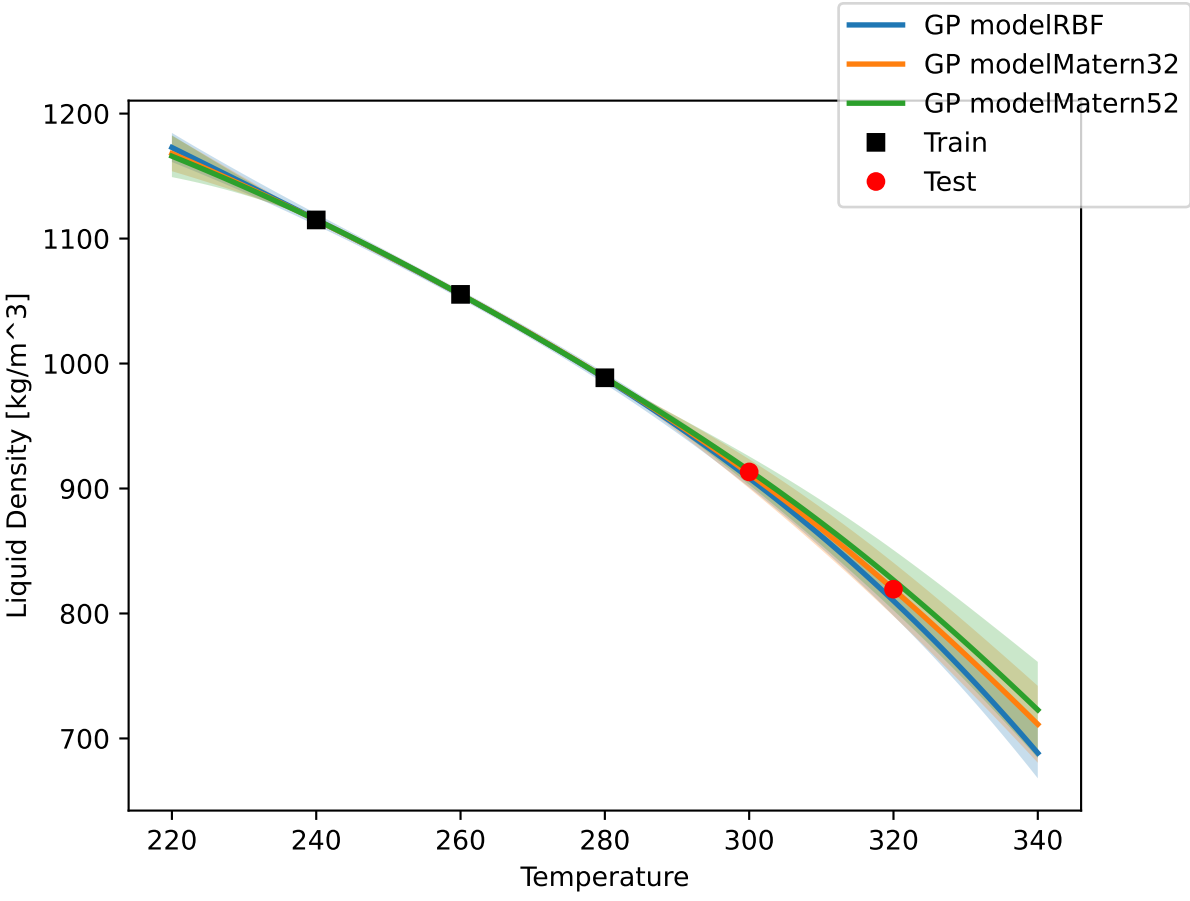
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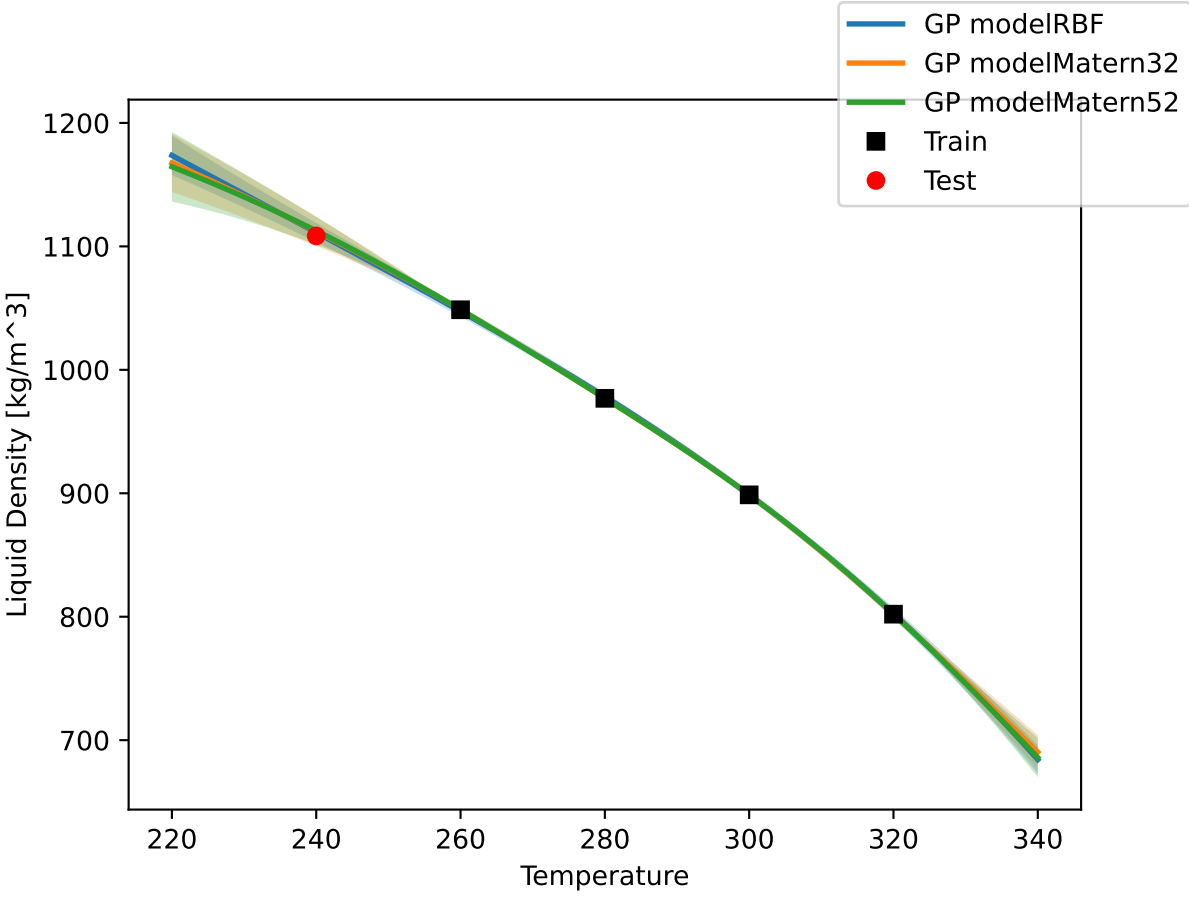
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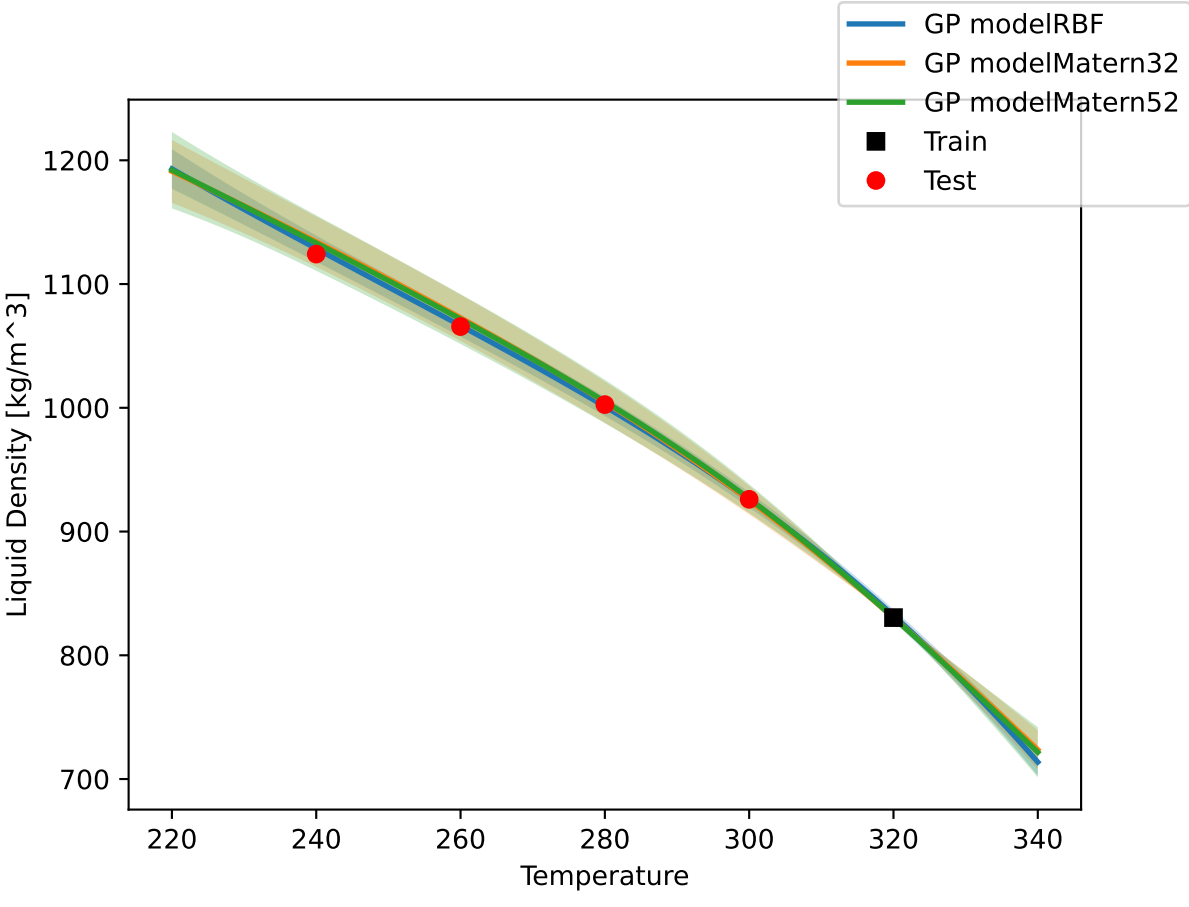
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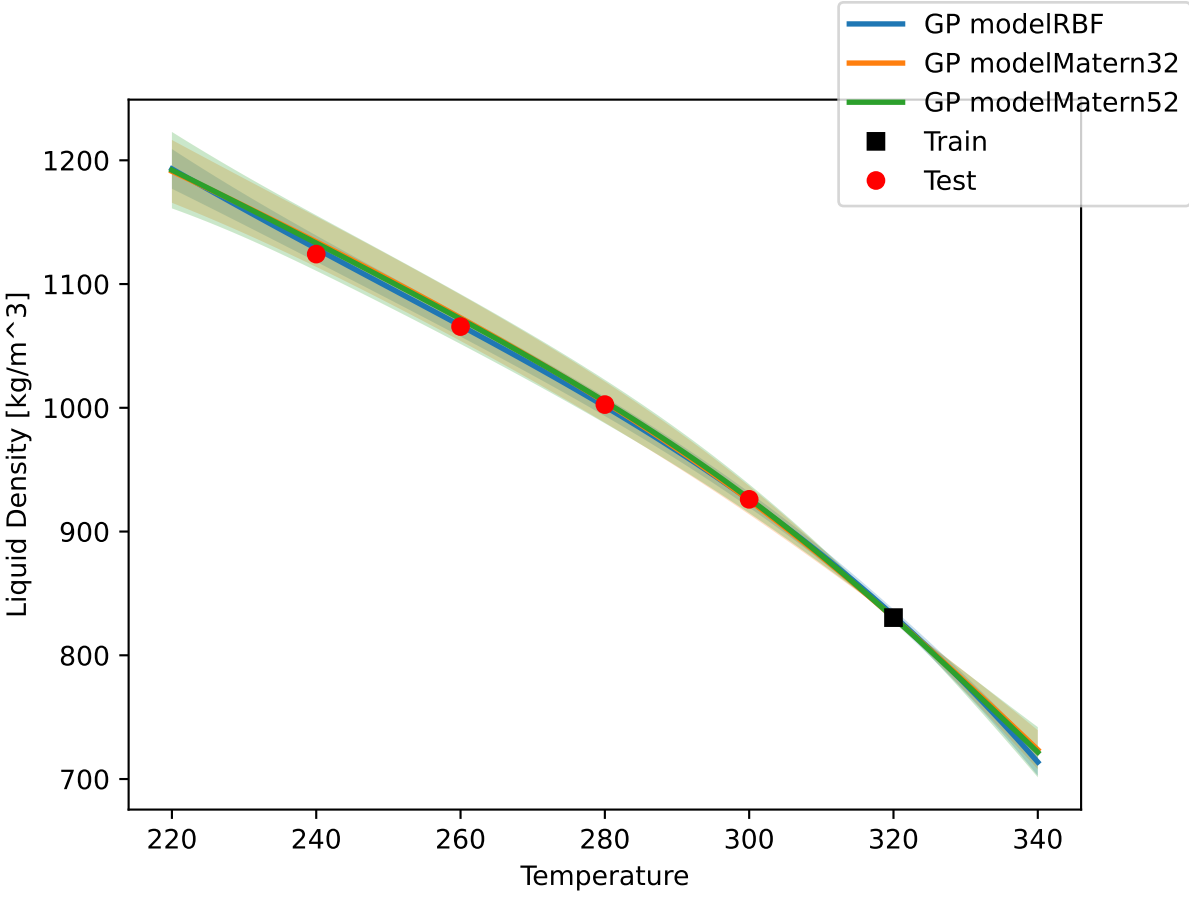
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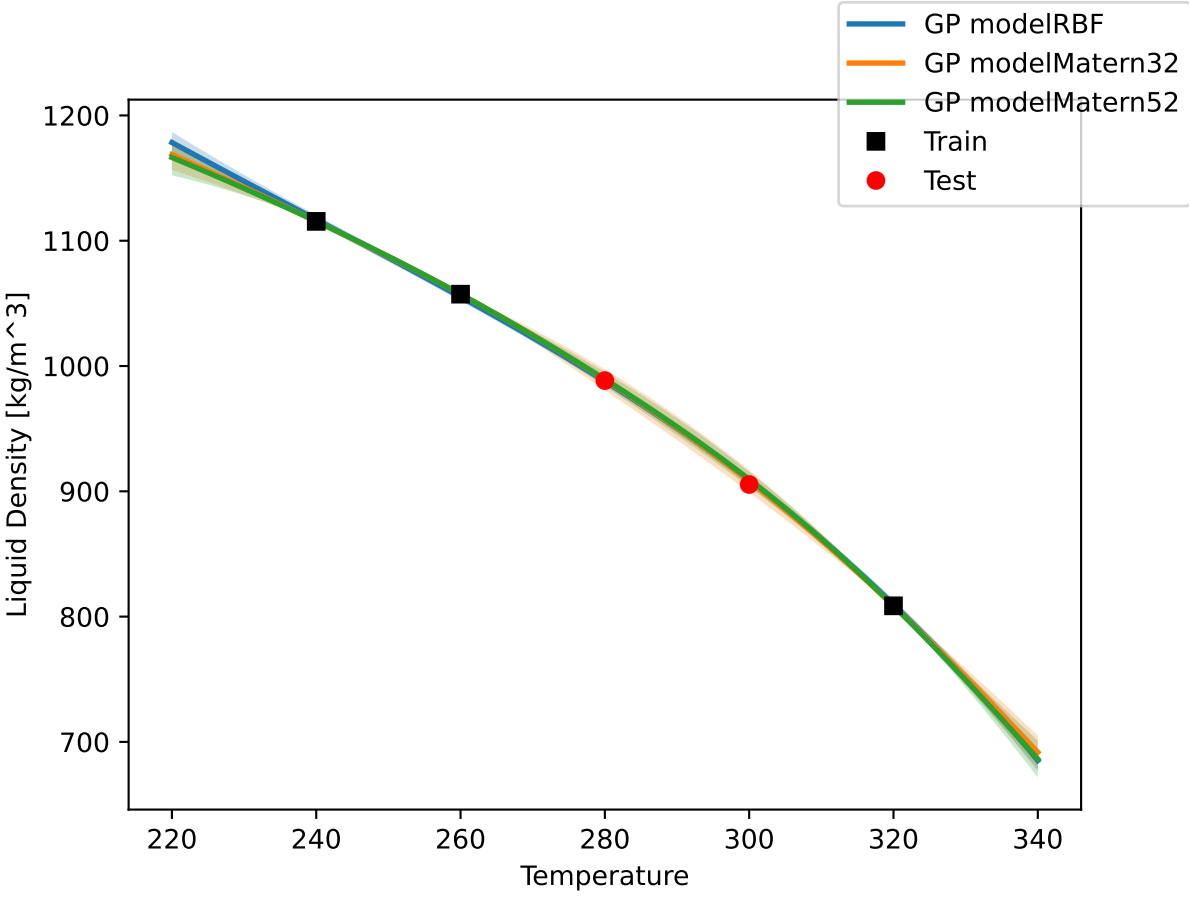
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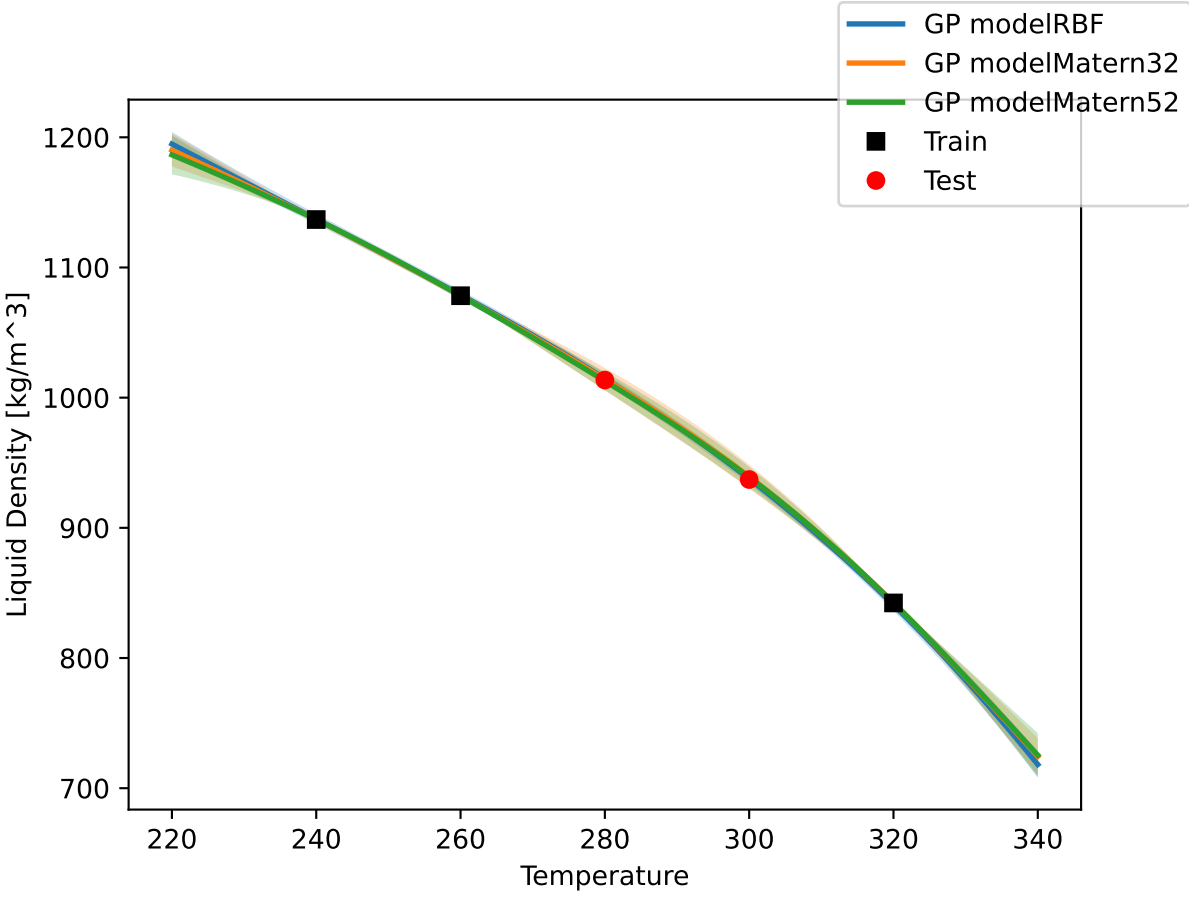
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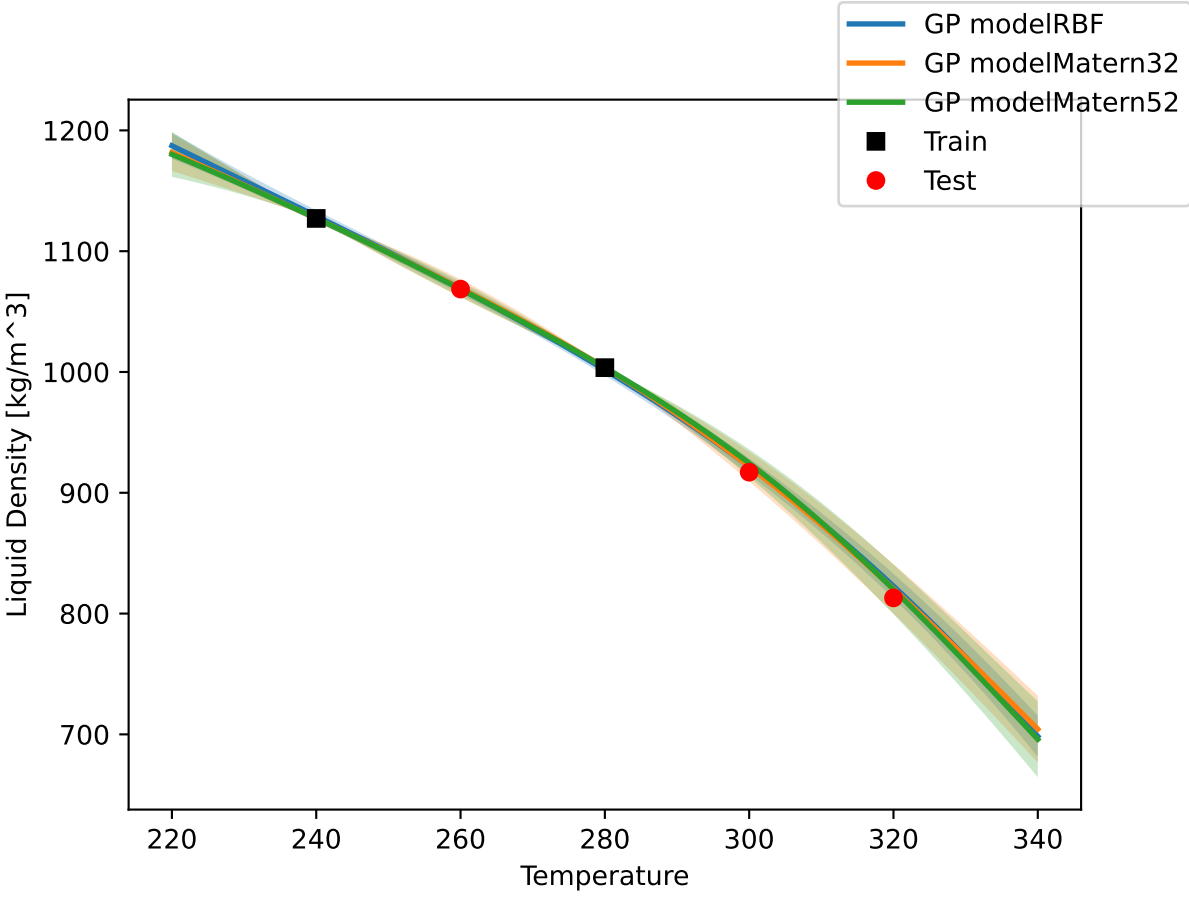
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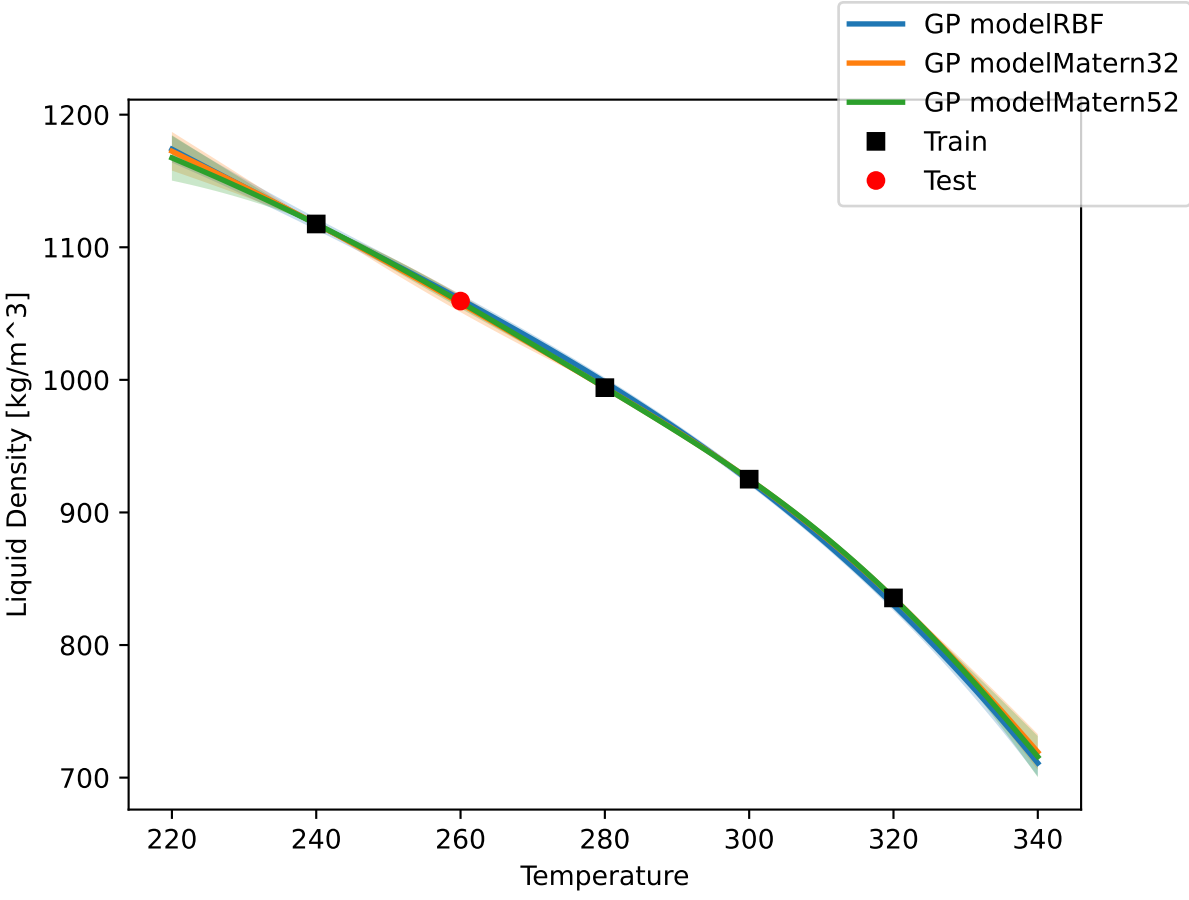
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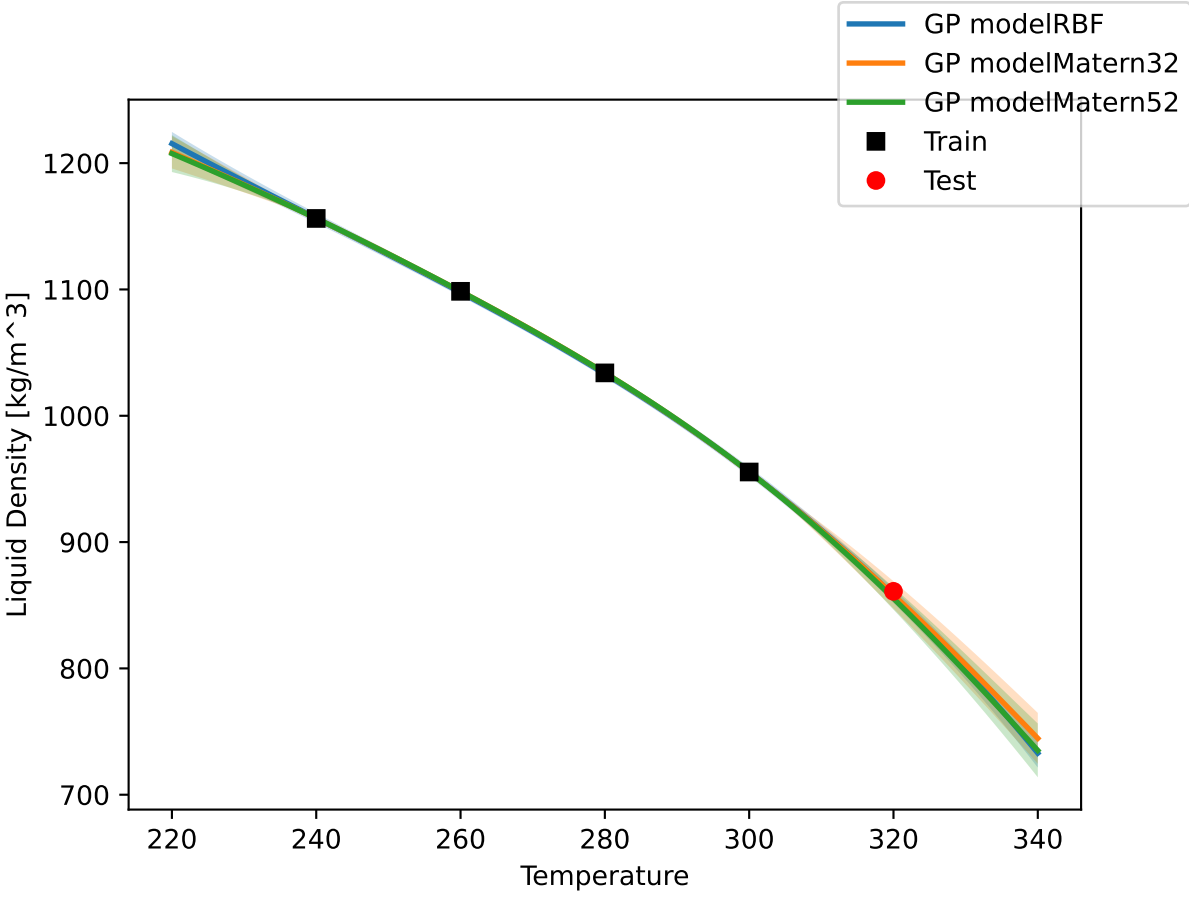
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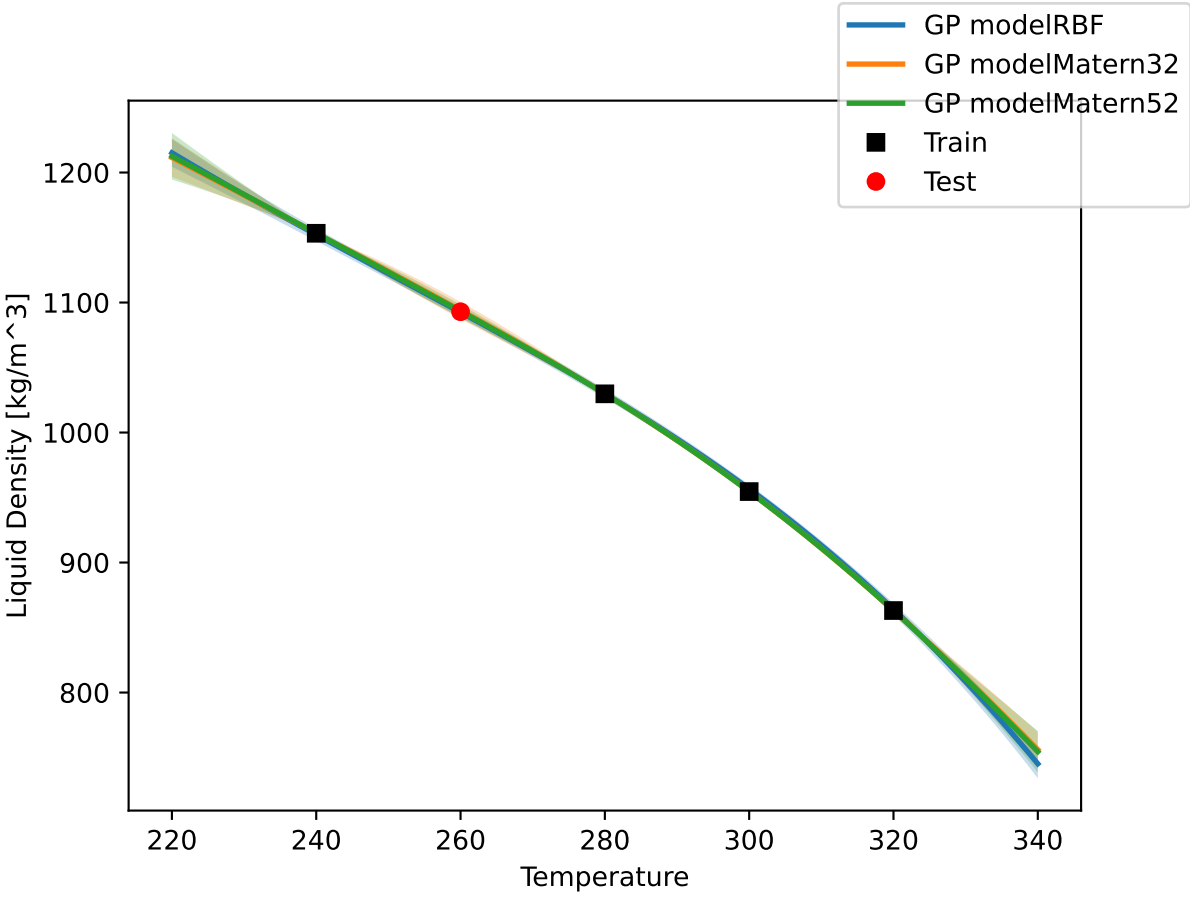
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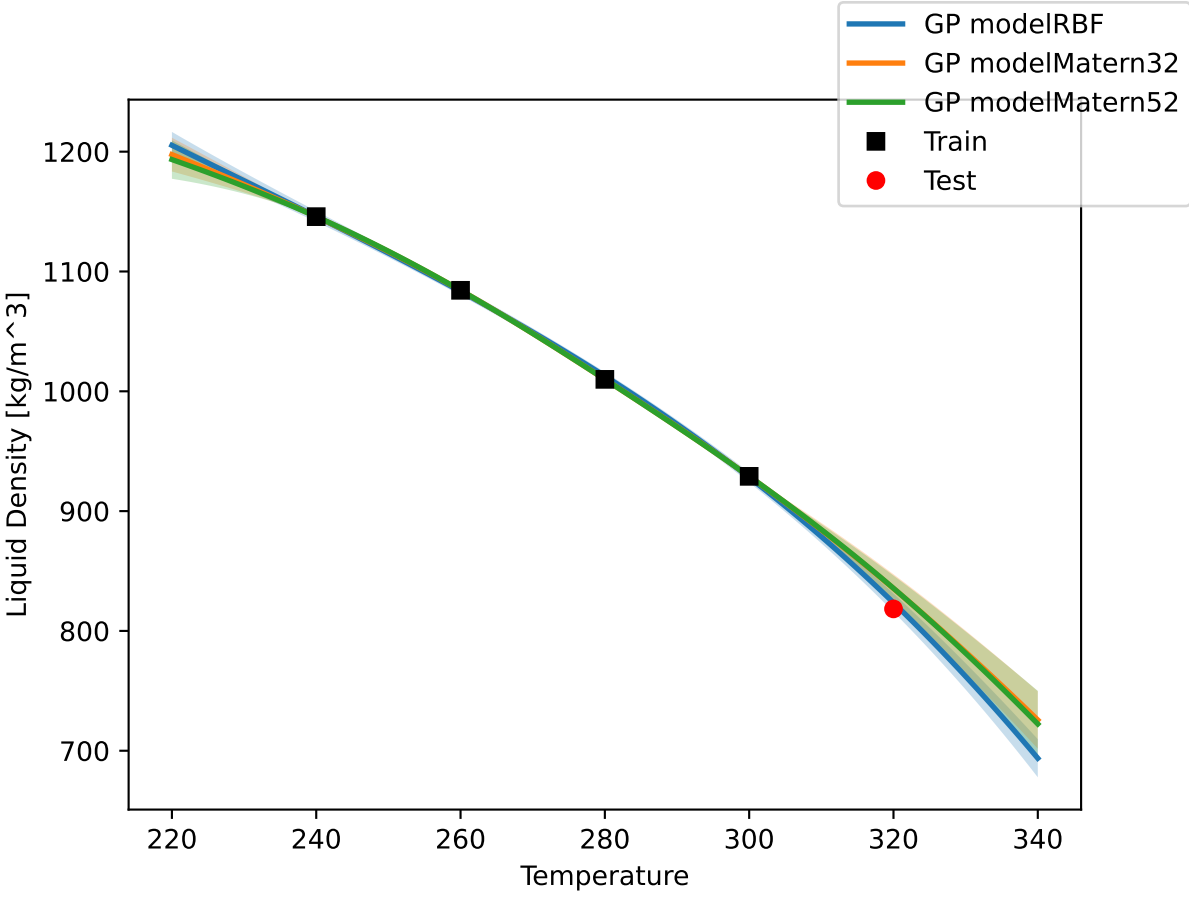
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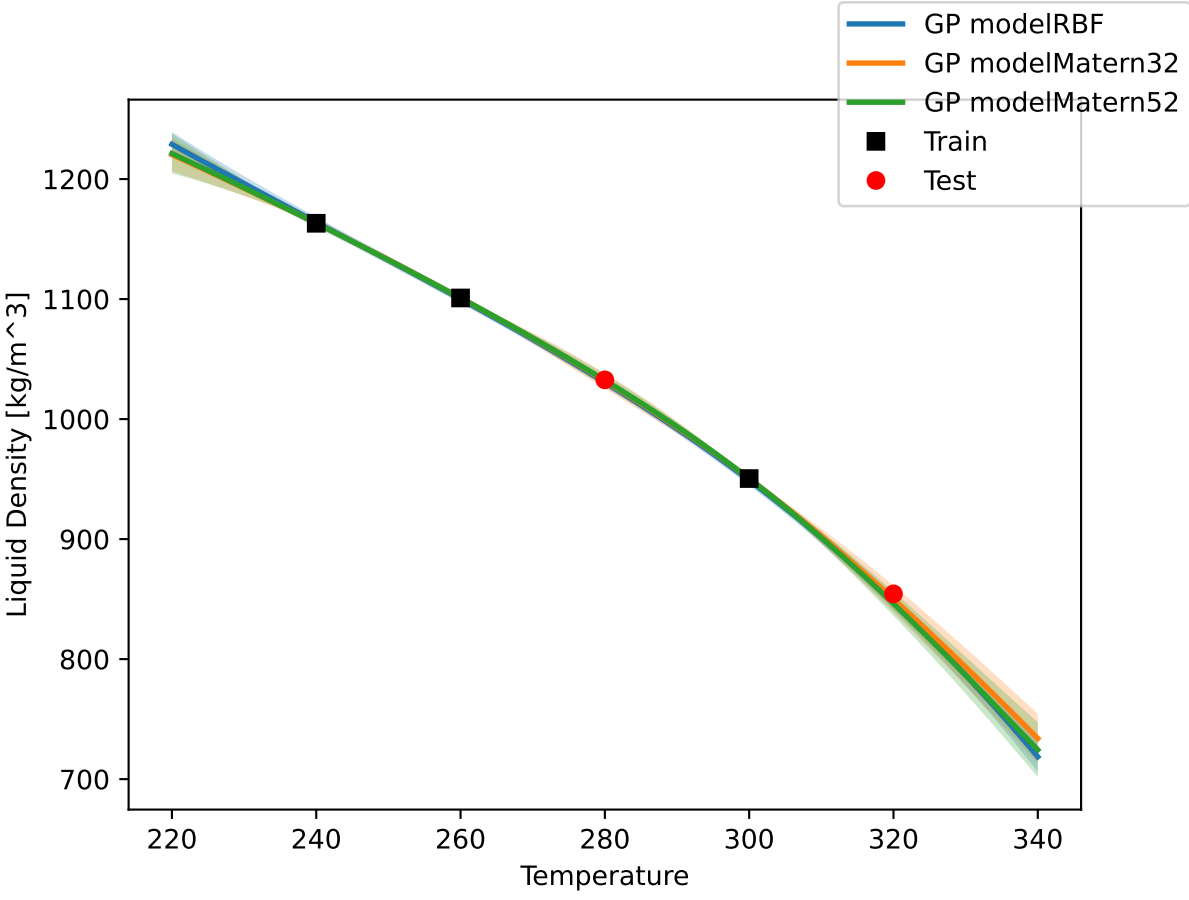
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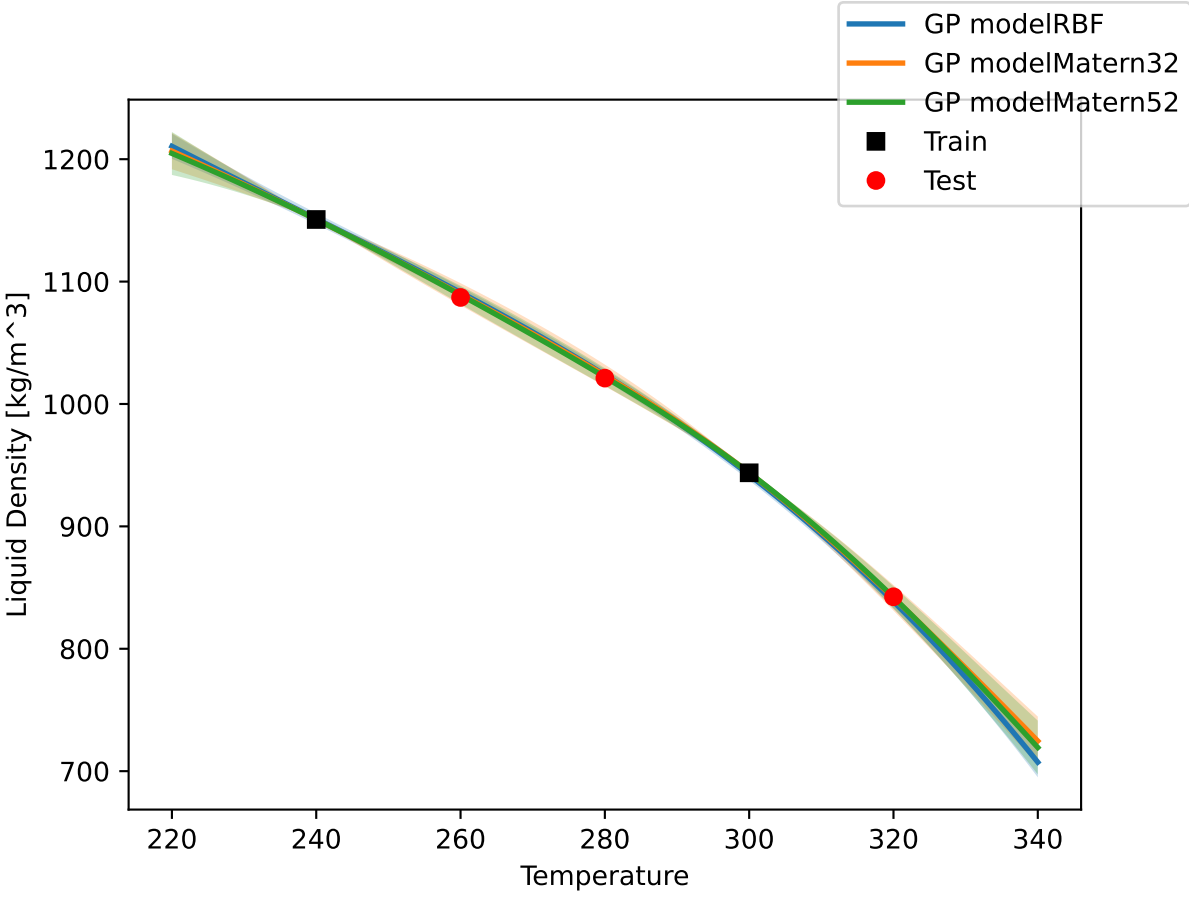
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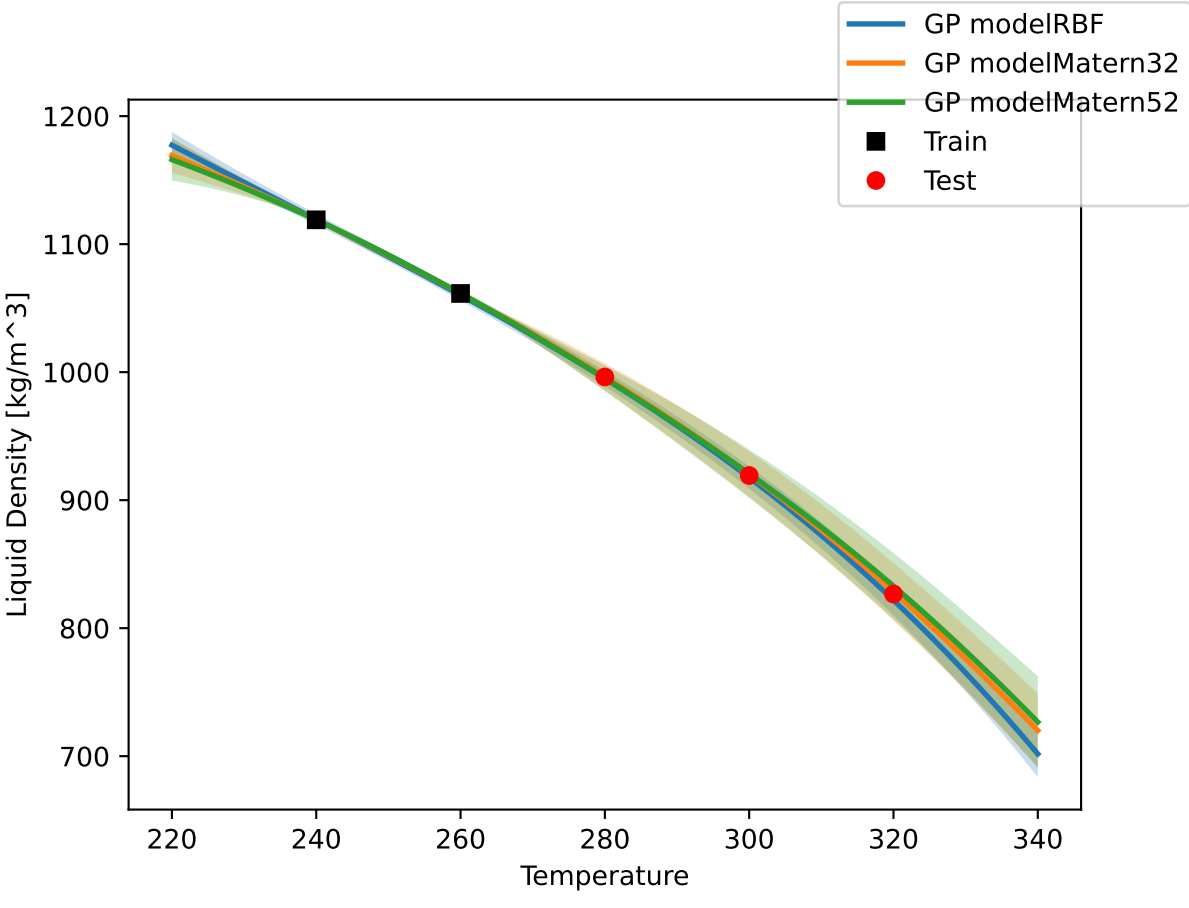
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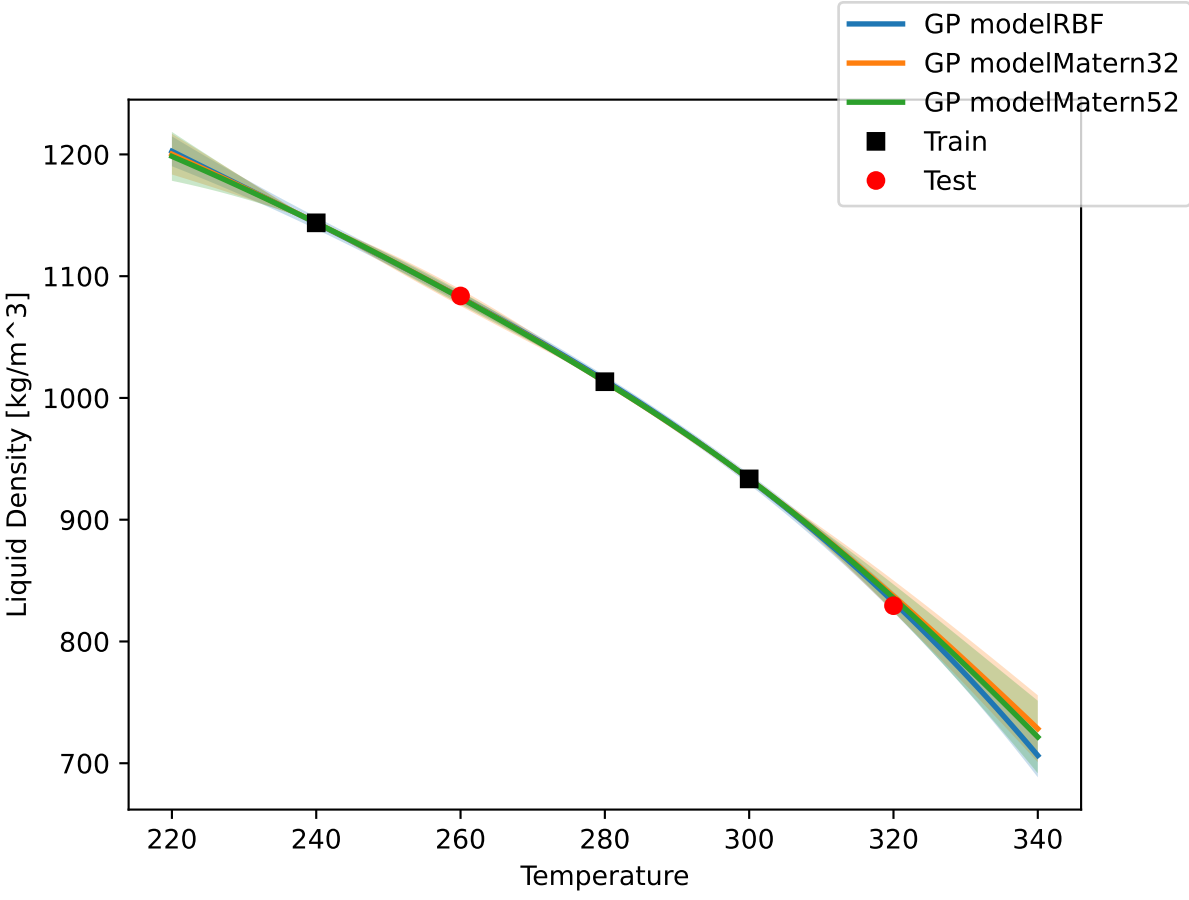
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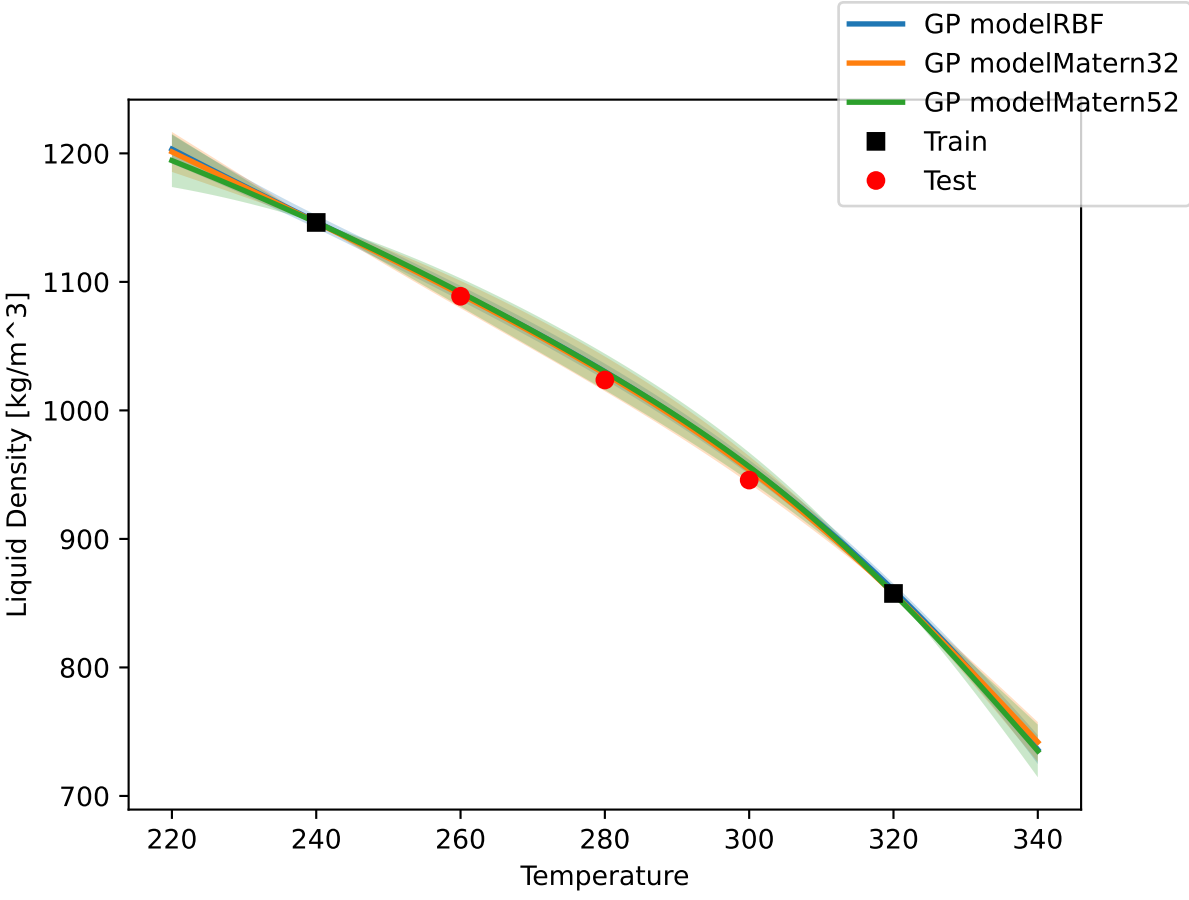
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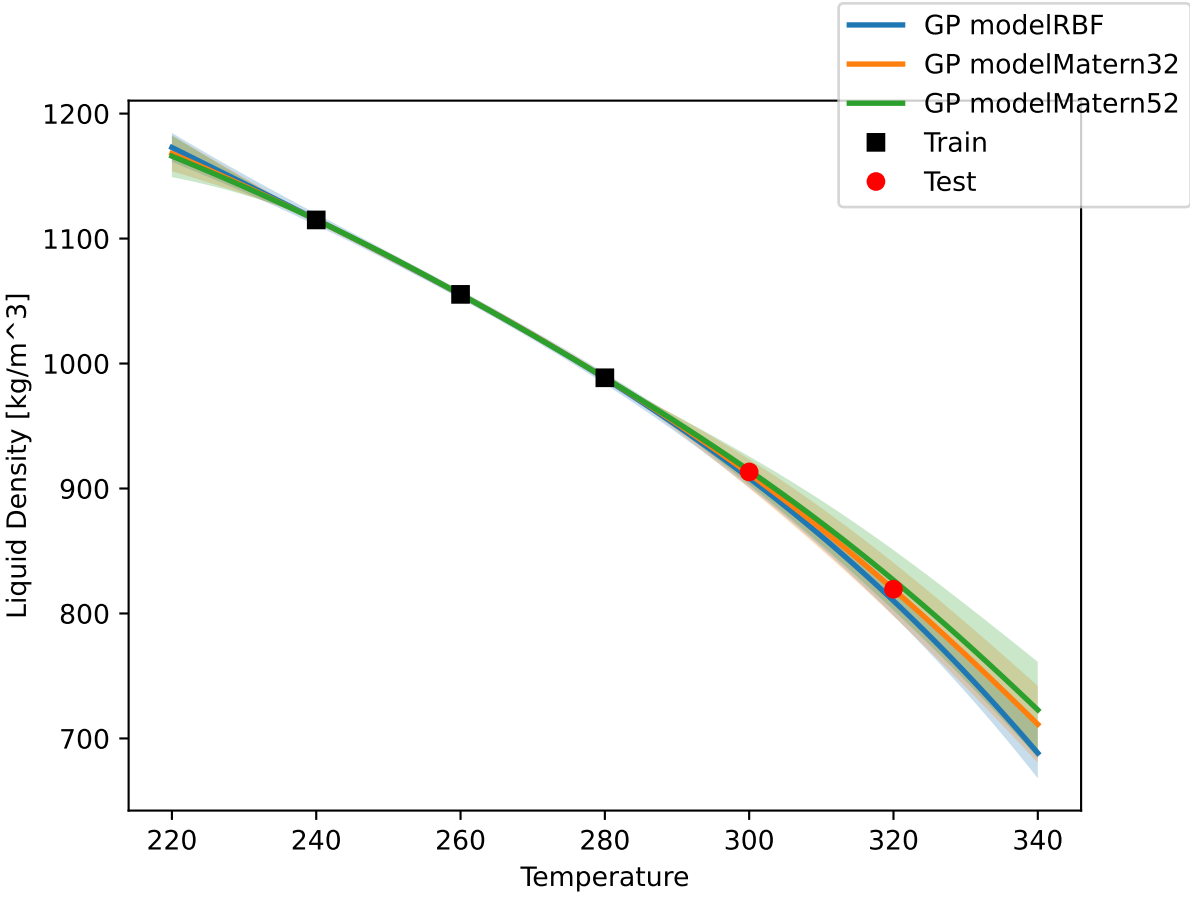
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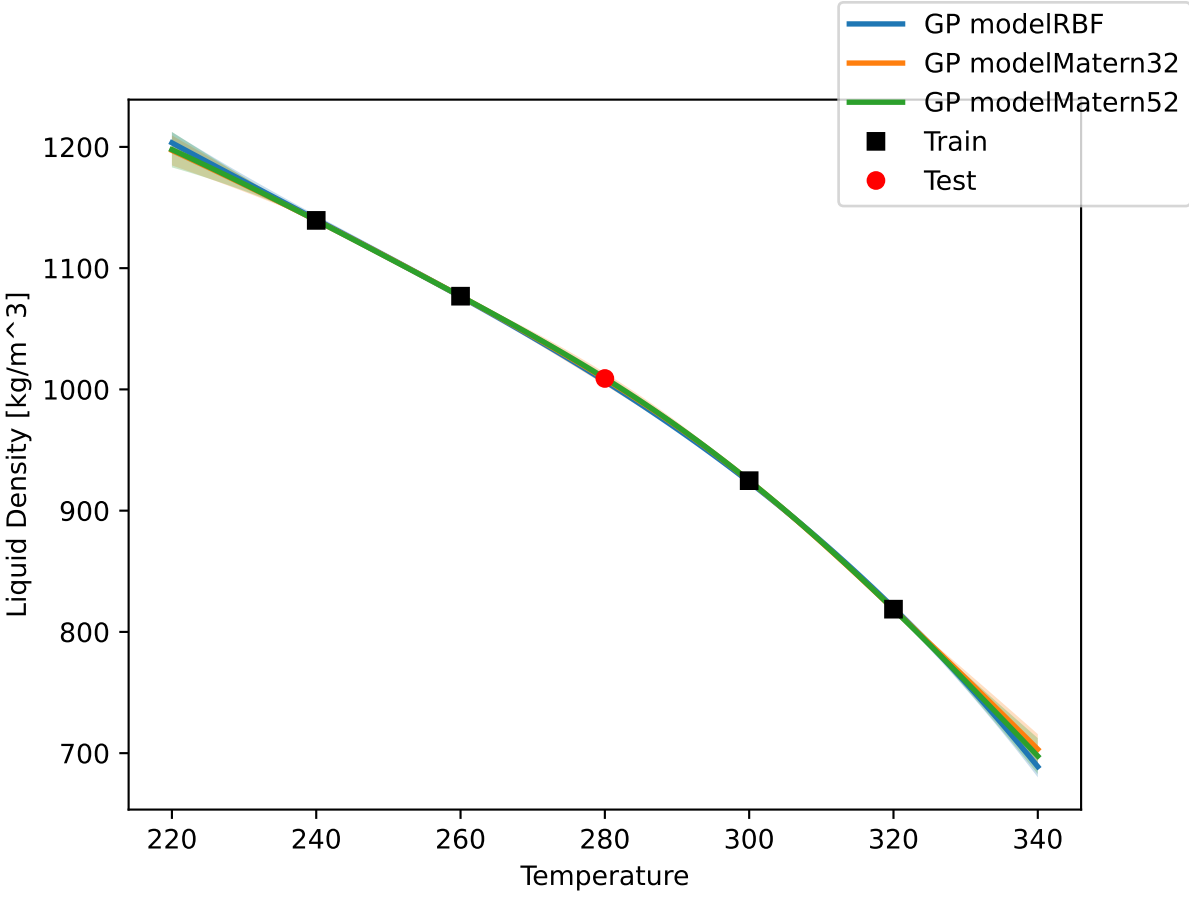
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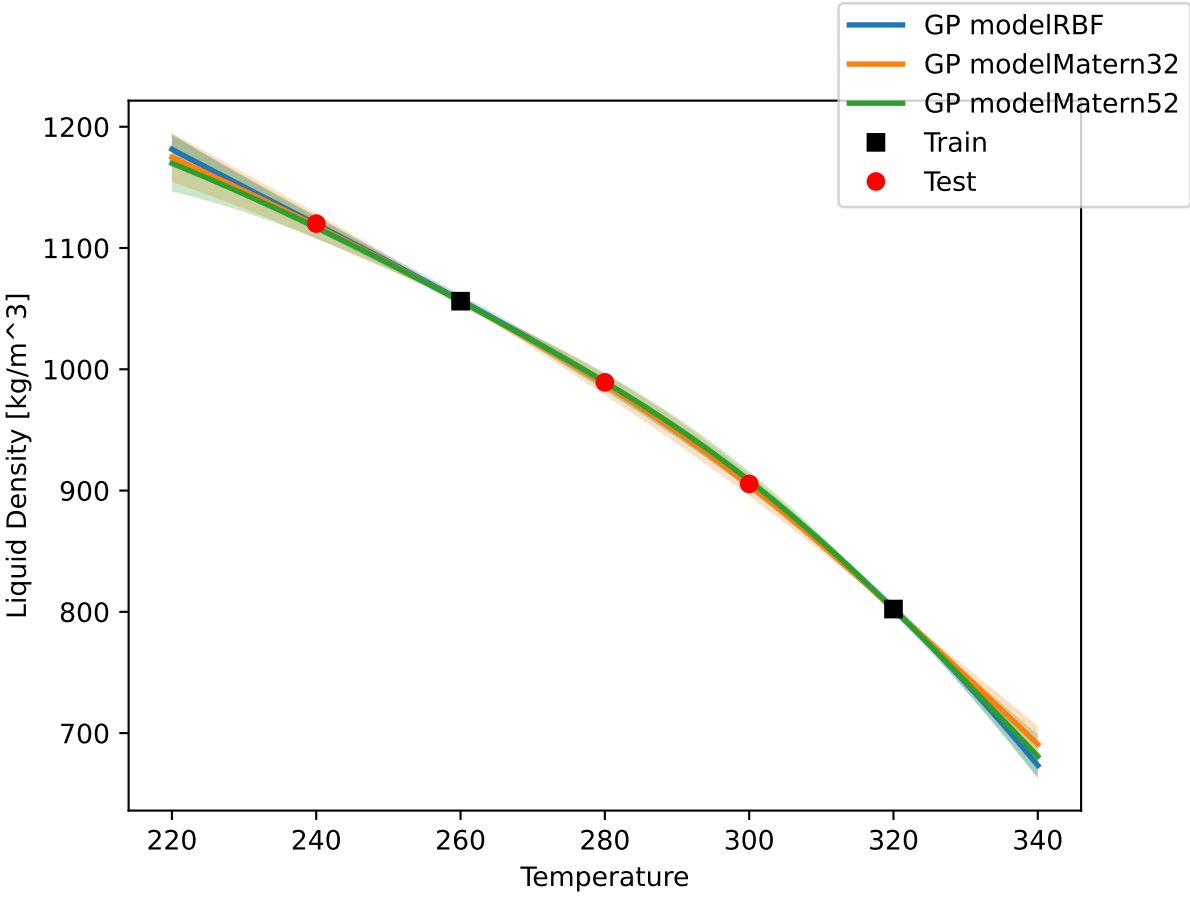
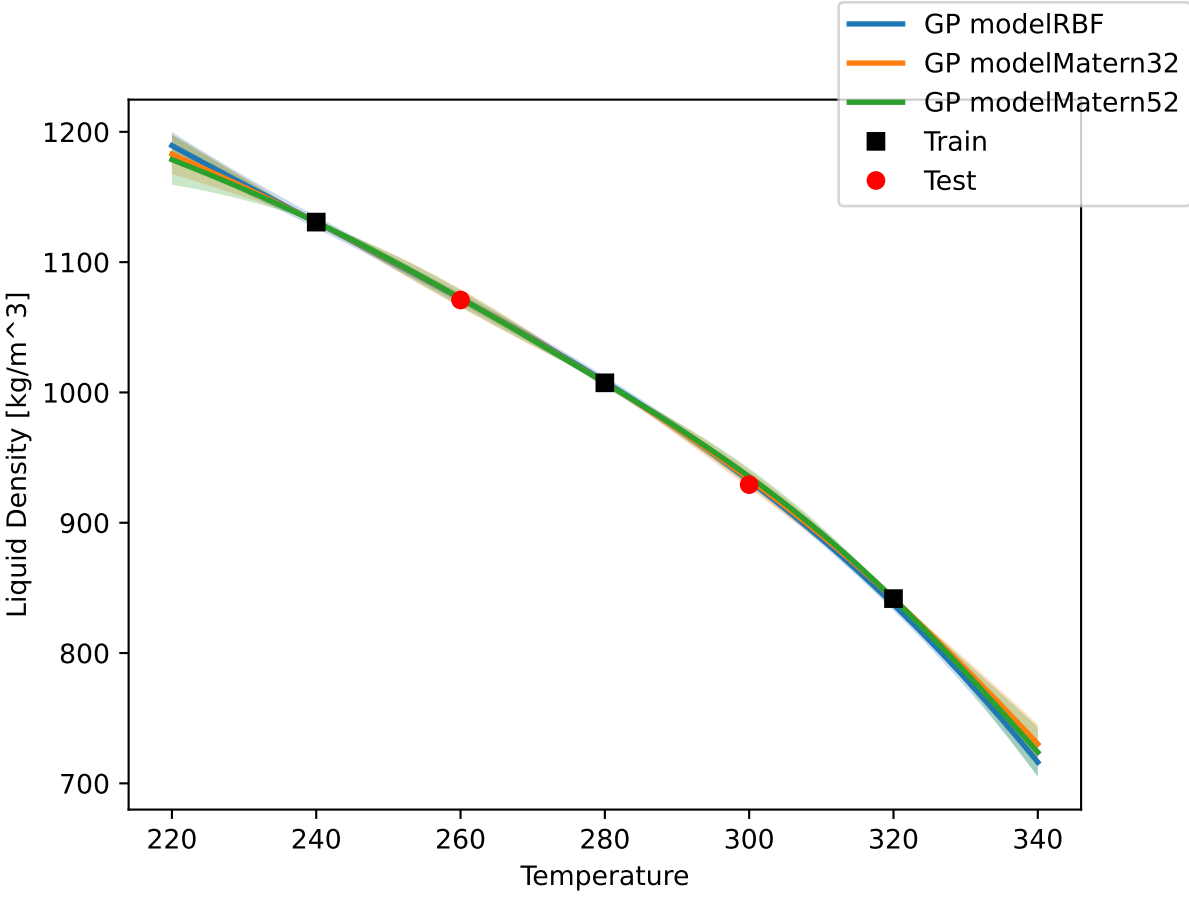
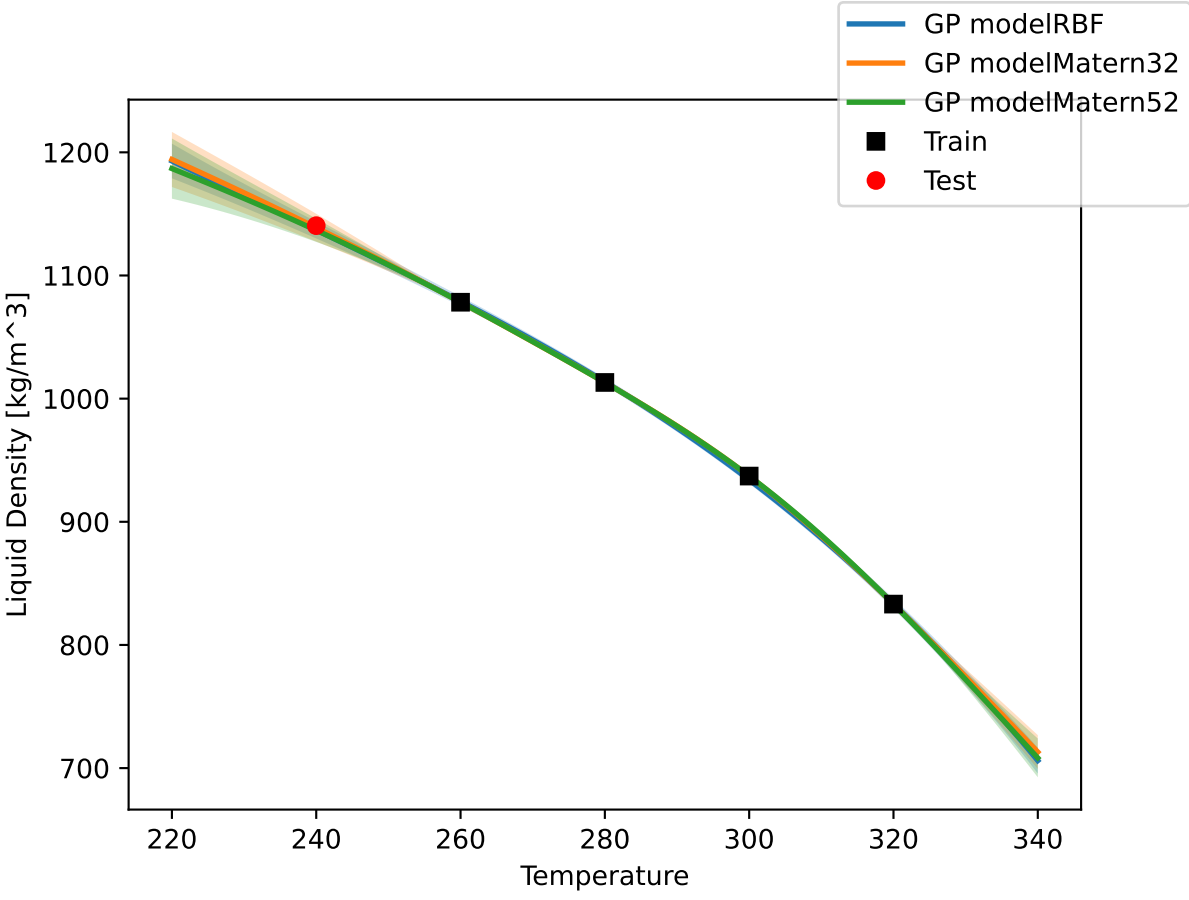
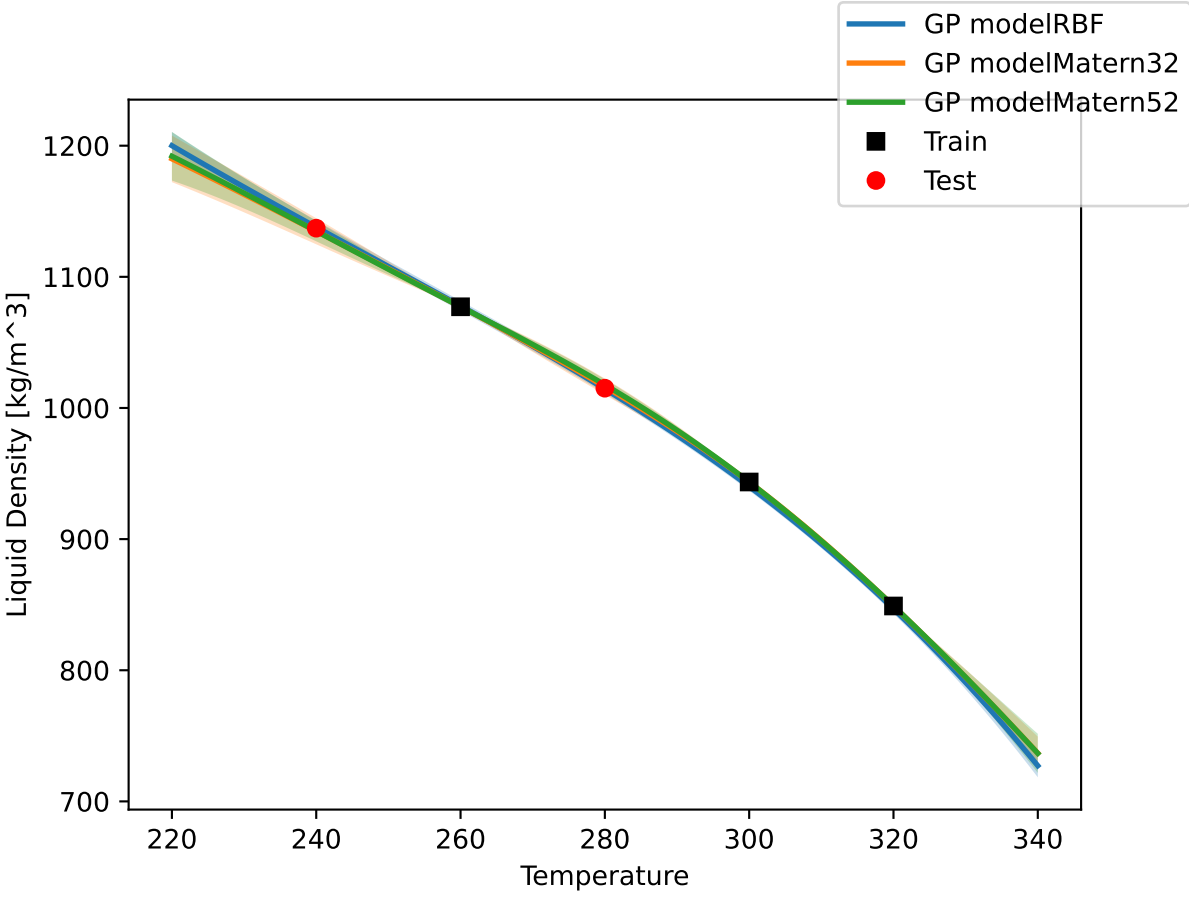
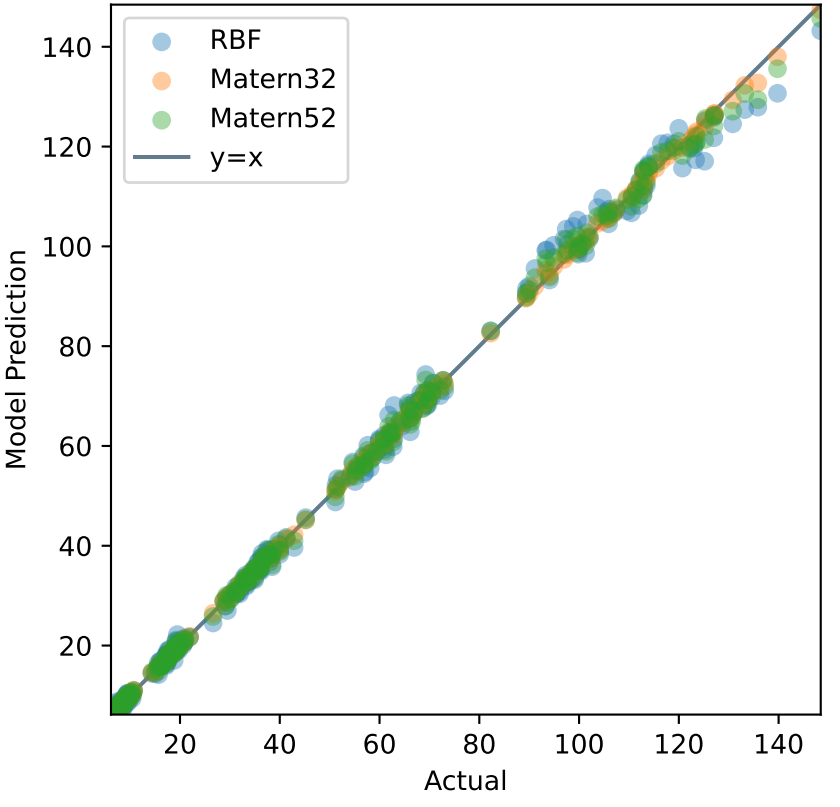
340
Temperature

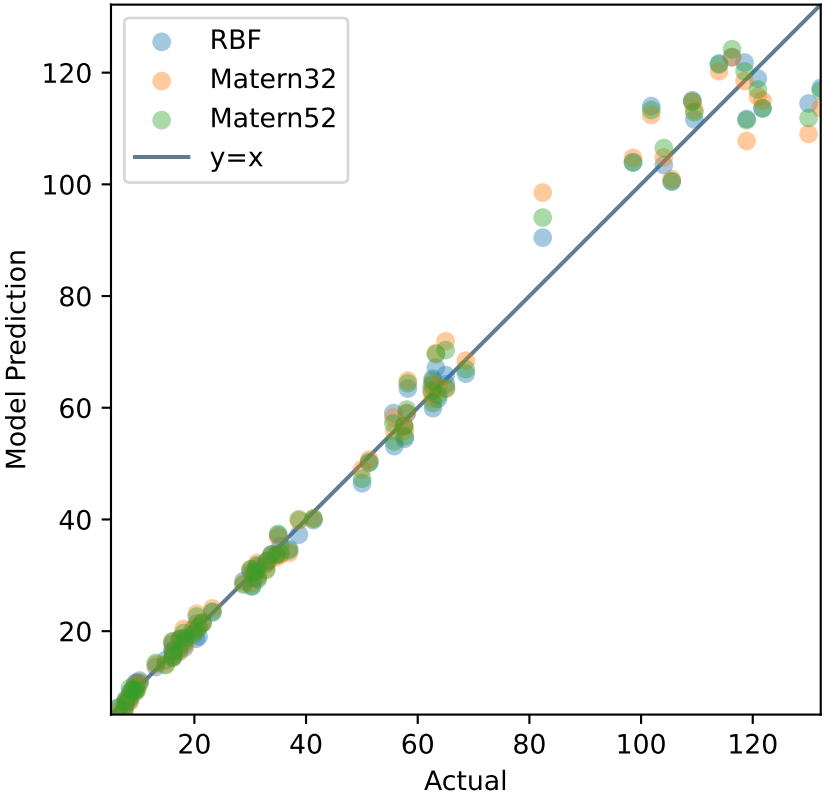

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
1200
1100
1000
900
800
700
Liquid Density [kg/m^3]
220
240
260
280
300
320
340
Temperature

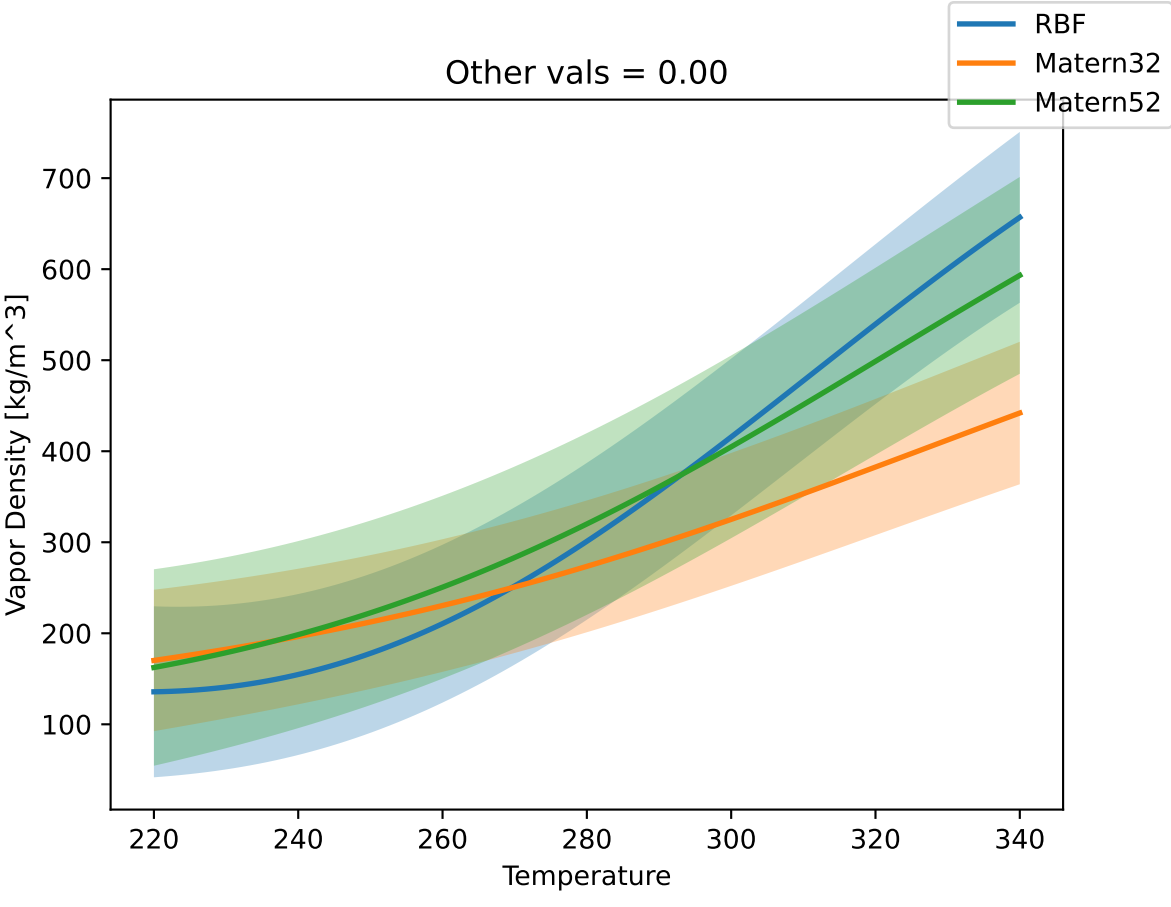

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
1200
1100
1000
900
800
700
Liquid Density [kg/m^3]
220
240
260
280
300
320
340
Temperature

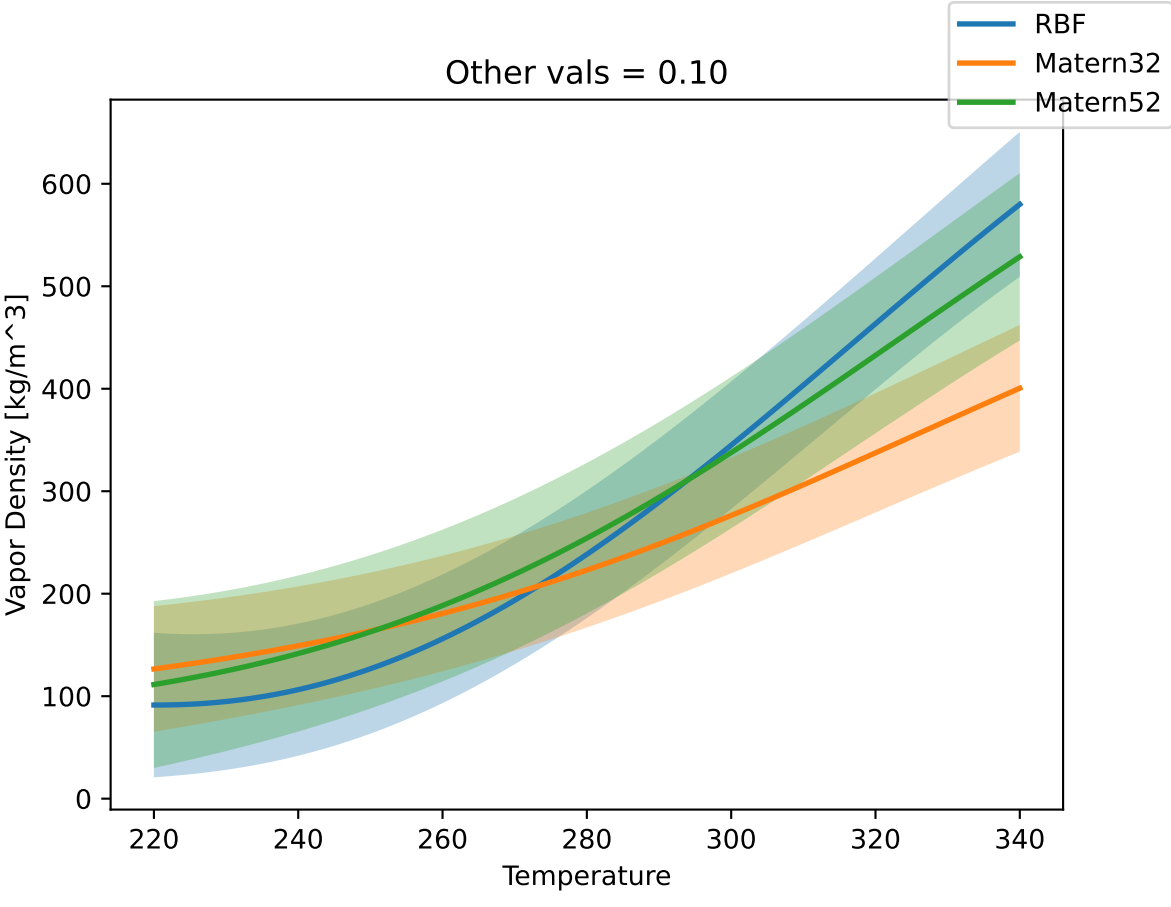

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
220
240
260
280
300
320
340
Temperature

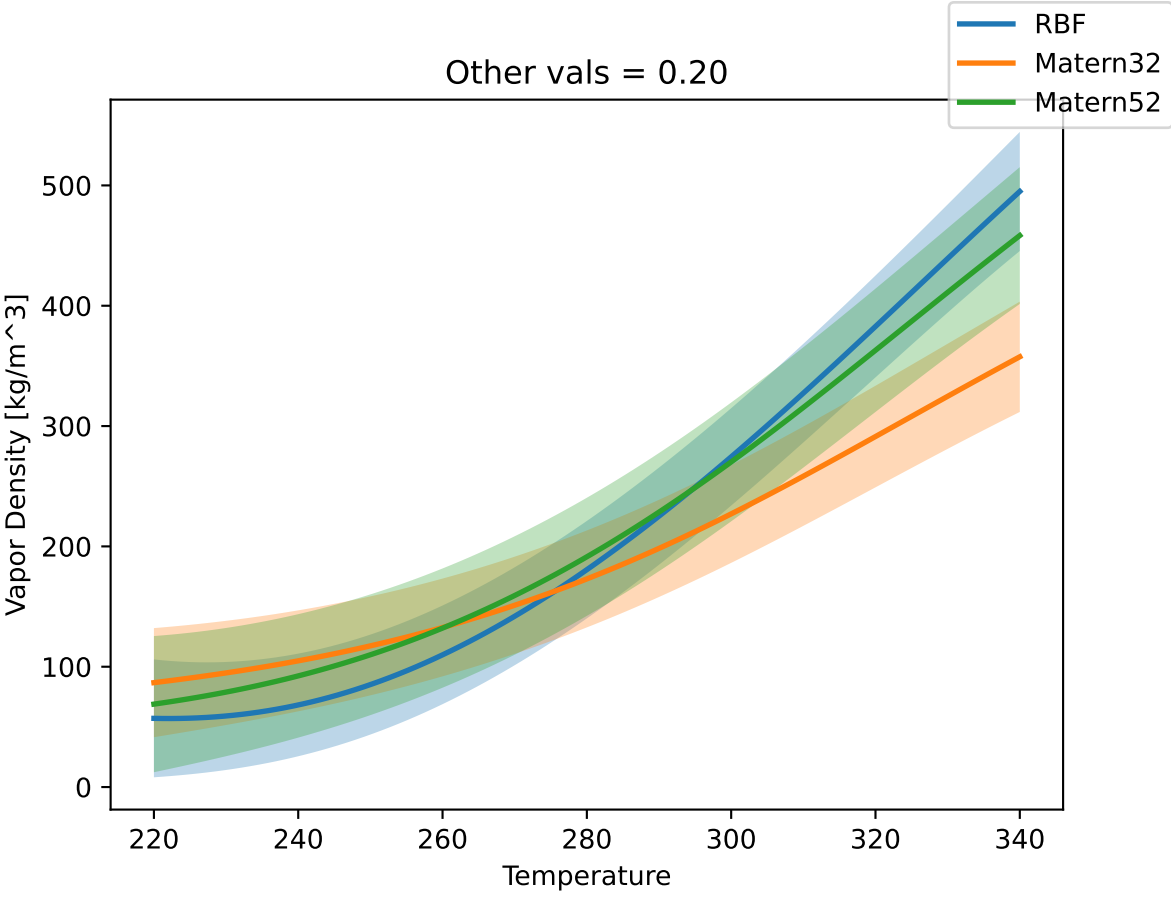

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
1200
1100
1000
900
800
700
220
240
260
280
300
320
340
Temperature

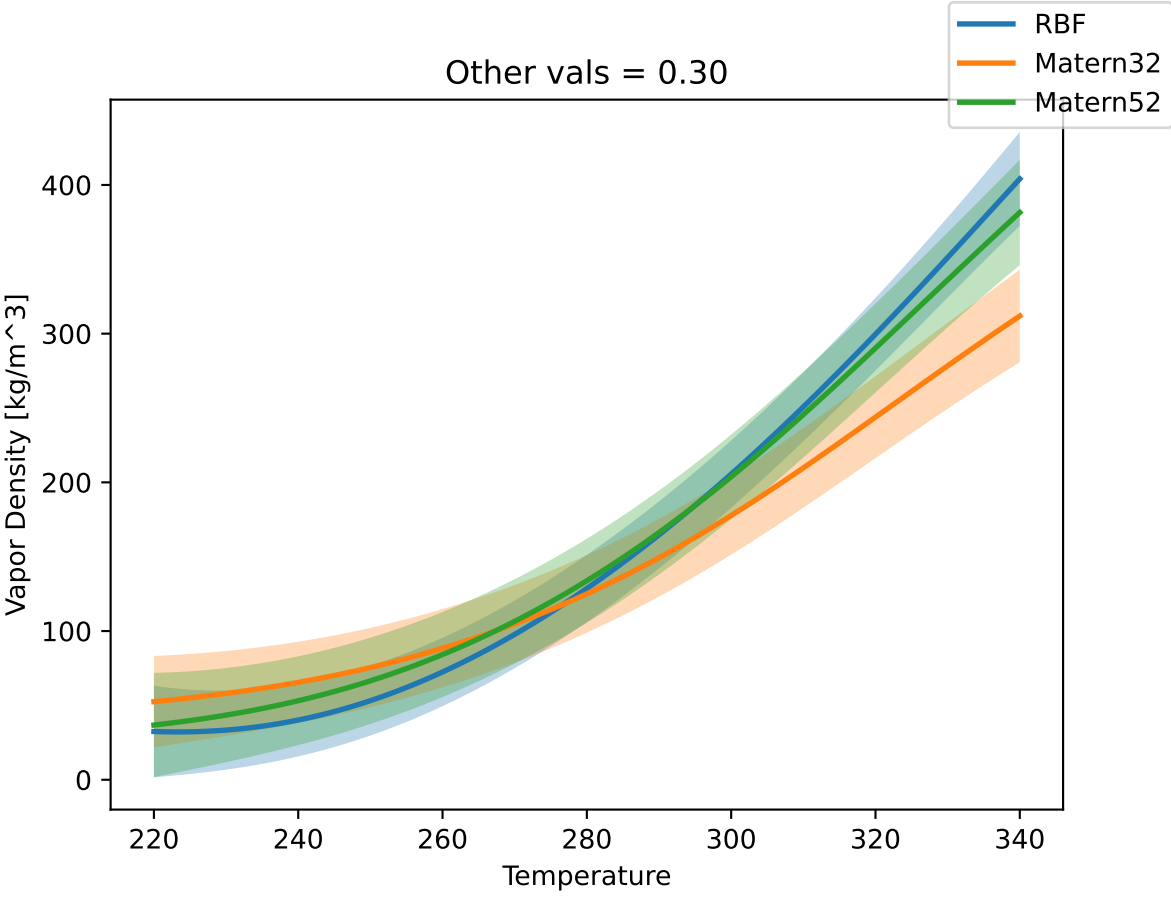

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
20
40
60
80
100
120
140

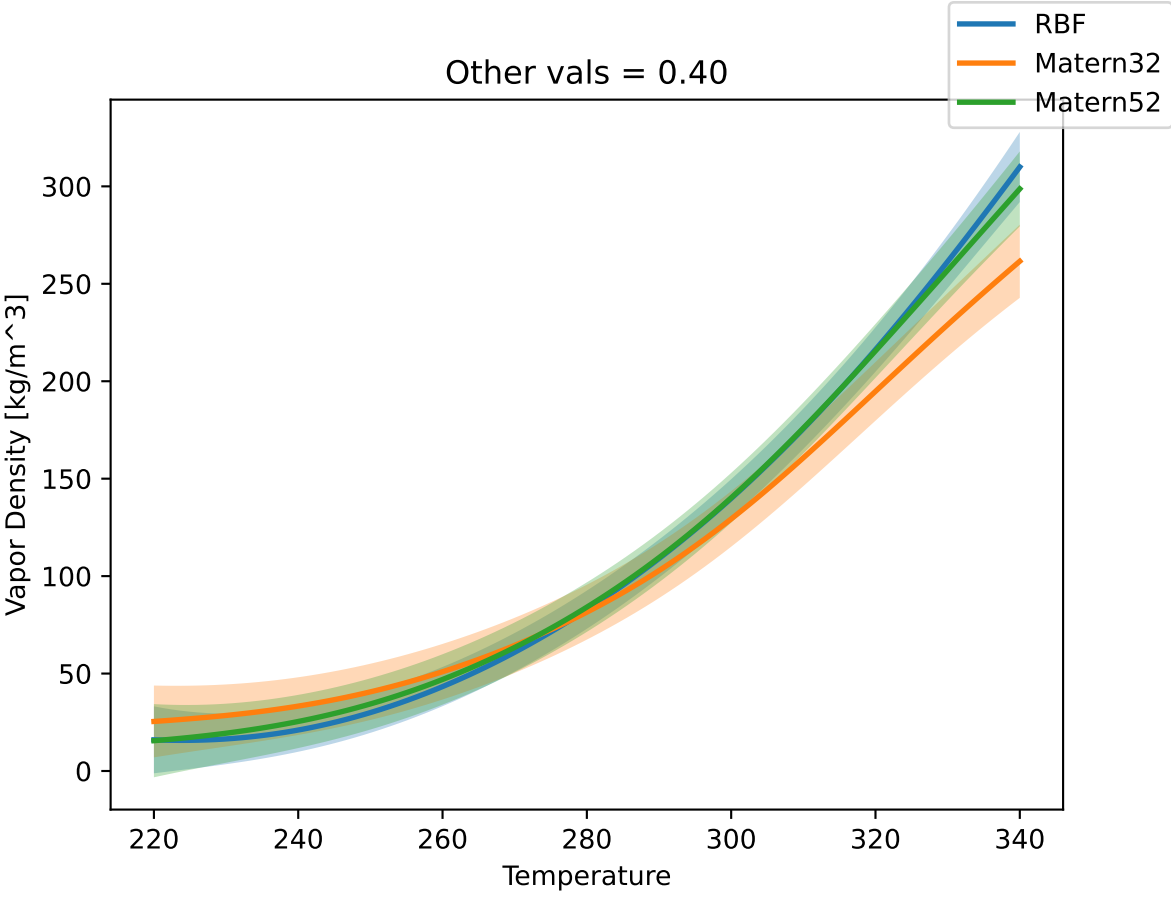

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
20
40
60
80
100
120

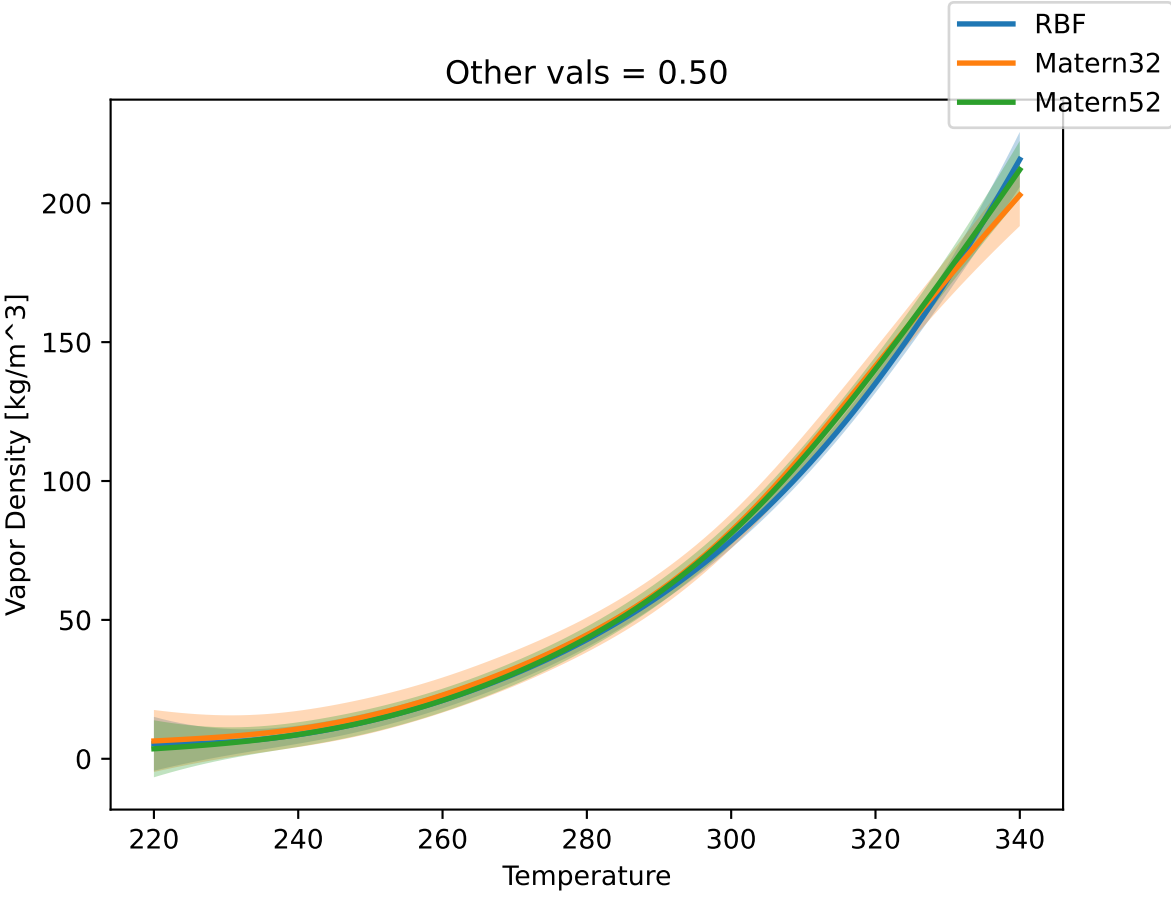

RBF
Matern32
Matern52
Other vals = 0.00
Vapor Density [kg/m^3]
700
600
500
400
300
200
100
220
240
260
280
300
320
340
Temperature

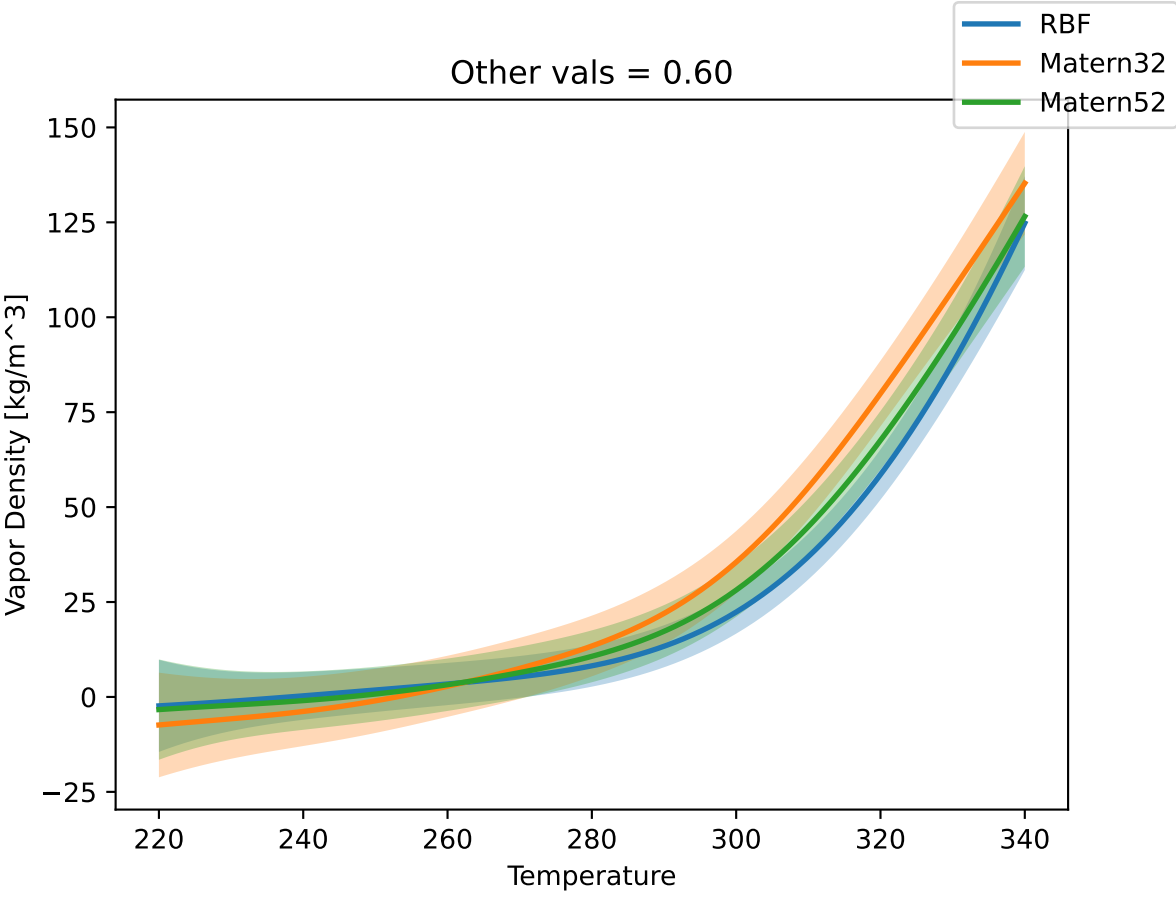

RBF
Matern32
Matern52
Other vals = 0.10
Vapor Density [kg/m^3]
0
100
200
300
400
500
600
220
240
260
280
300
320
340
Temperature

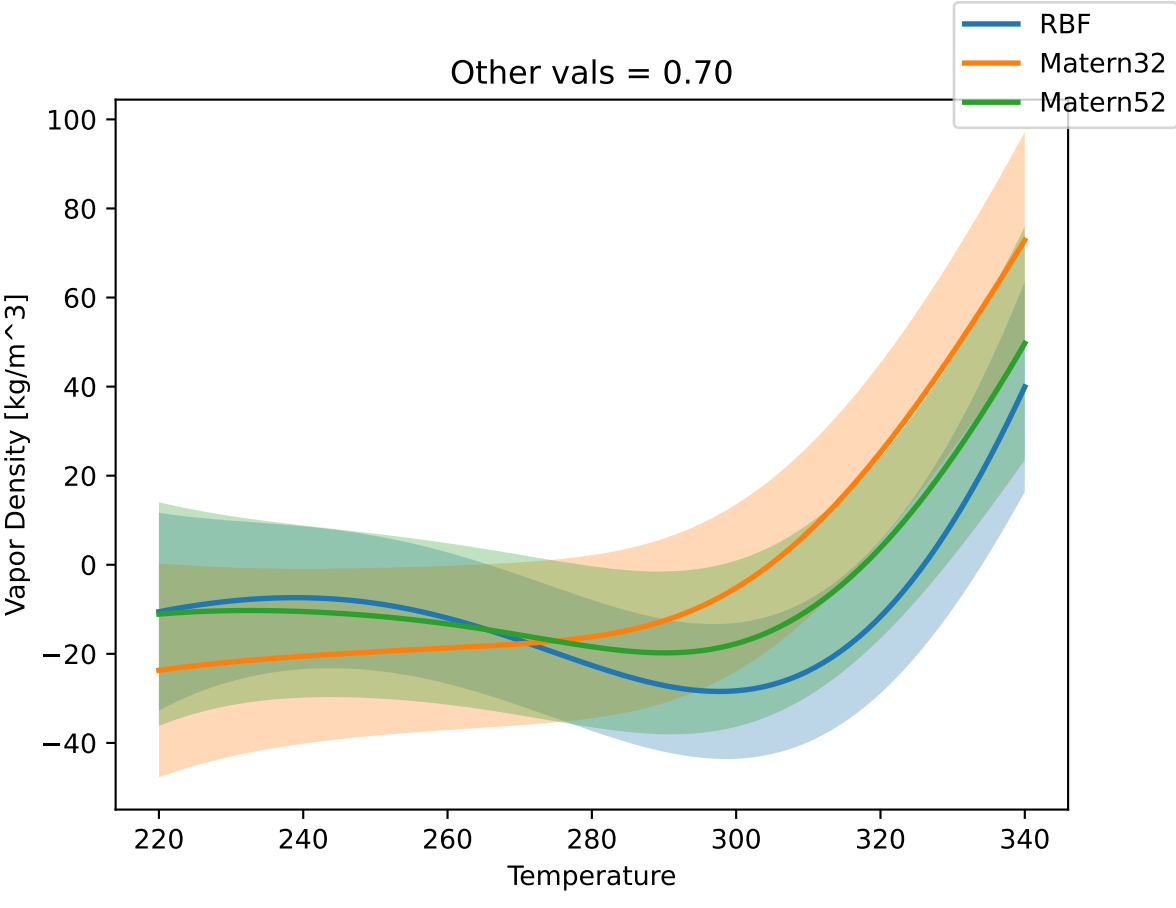

RBF
Matern32
Matern52
Other vals = 0.20
Vapor Density [kg/m^3]
0
100
200
300
400
500
220
240
260
280
300
320
340
Temperature

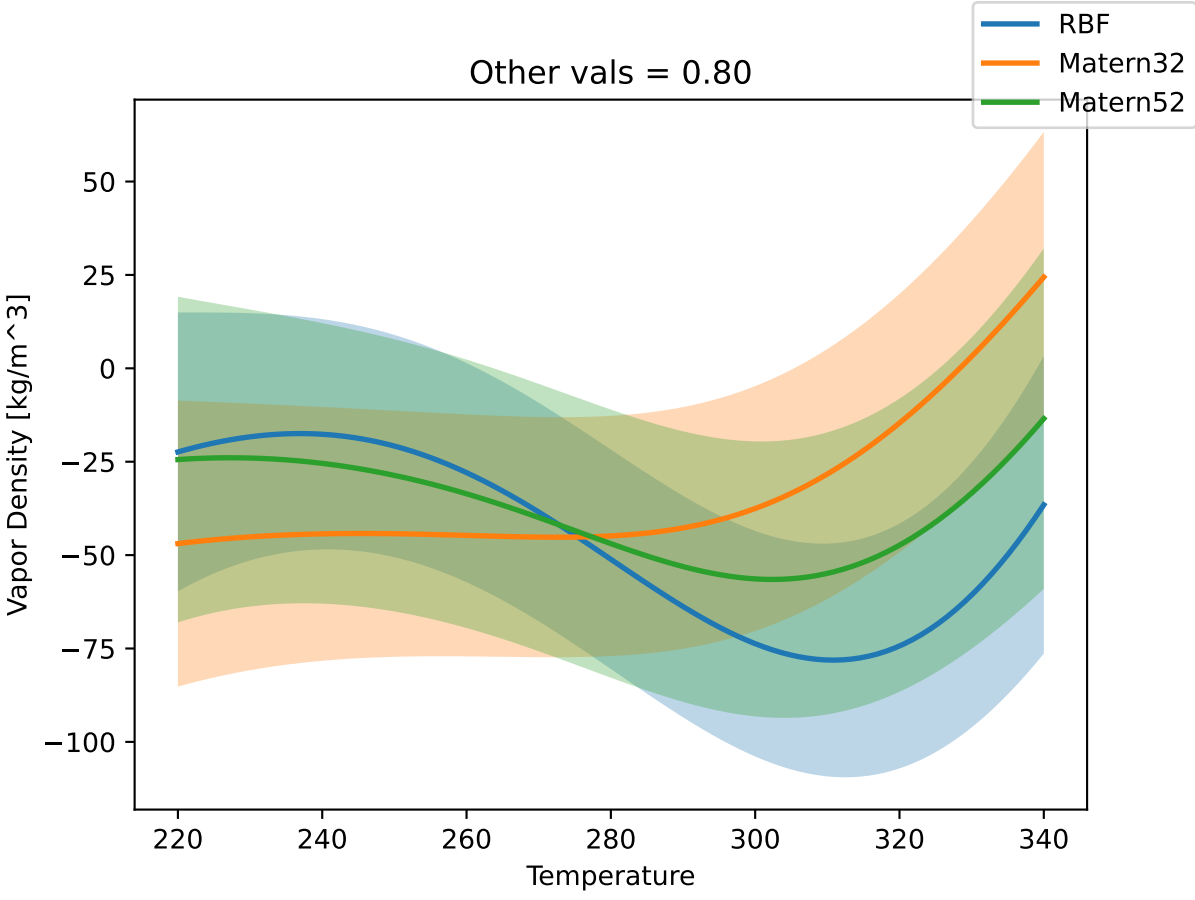

RBF
Matern32
Matern52
Other vals = 0.30
Vapor Density [kg/m^3]
0
100
200
300
400
220
240
260
280
300
320
340
Temperature

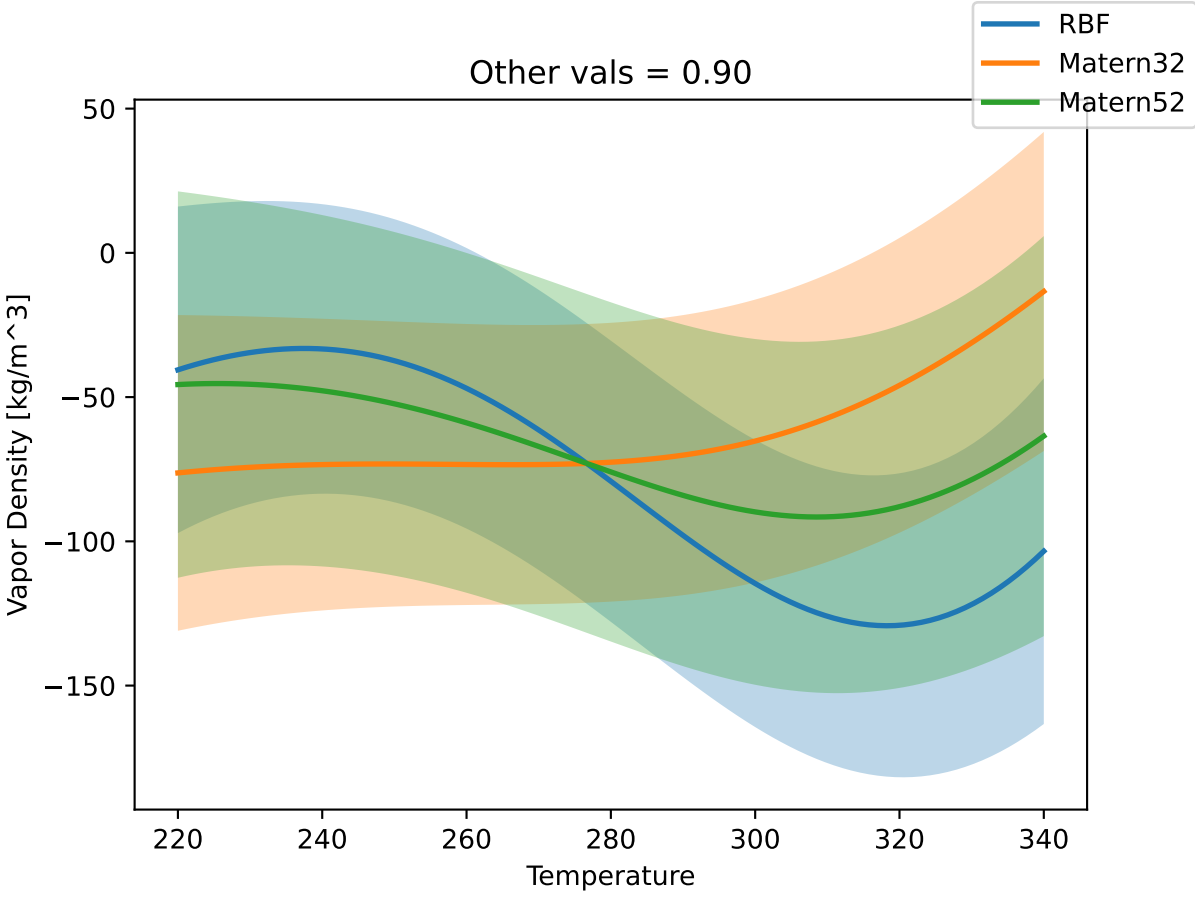

RBF
Matern32
Matern52
Other vals = 0.40
Vapor Density [kg/m^3]
Temperature
300
250
200
150
100
50
0
220
240
260
280
300
320
340

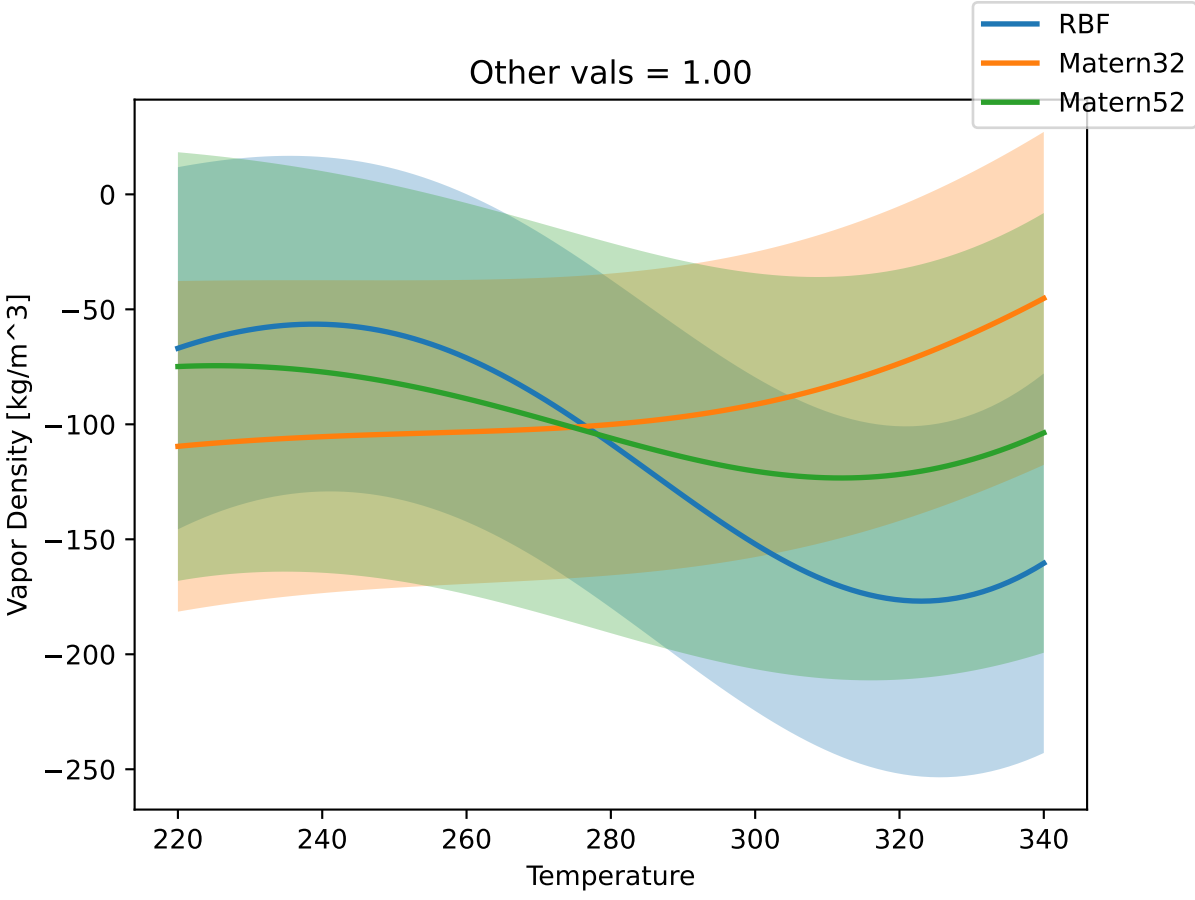

RBF
Matern32
Matern52
Other vals = 0.50
Vapor Density [kg/m^3]
200
150
100
50
0
220
240
260
280
300
320
340
Temperature

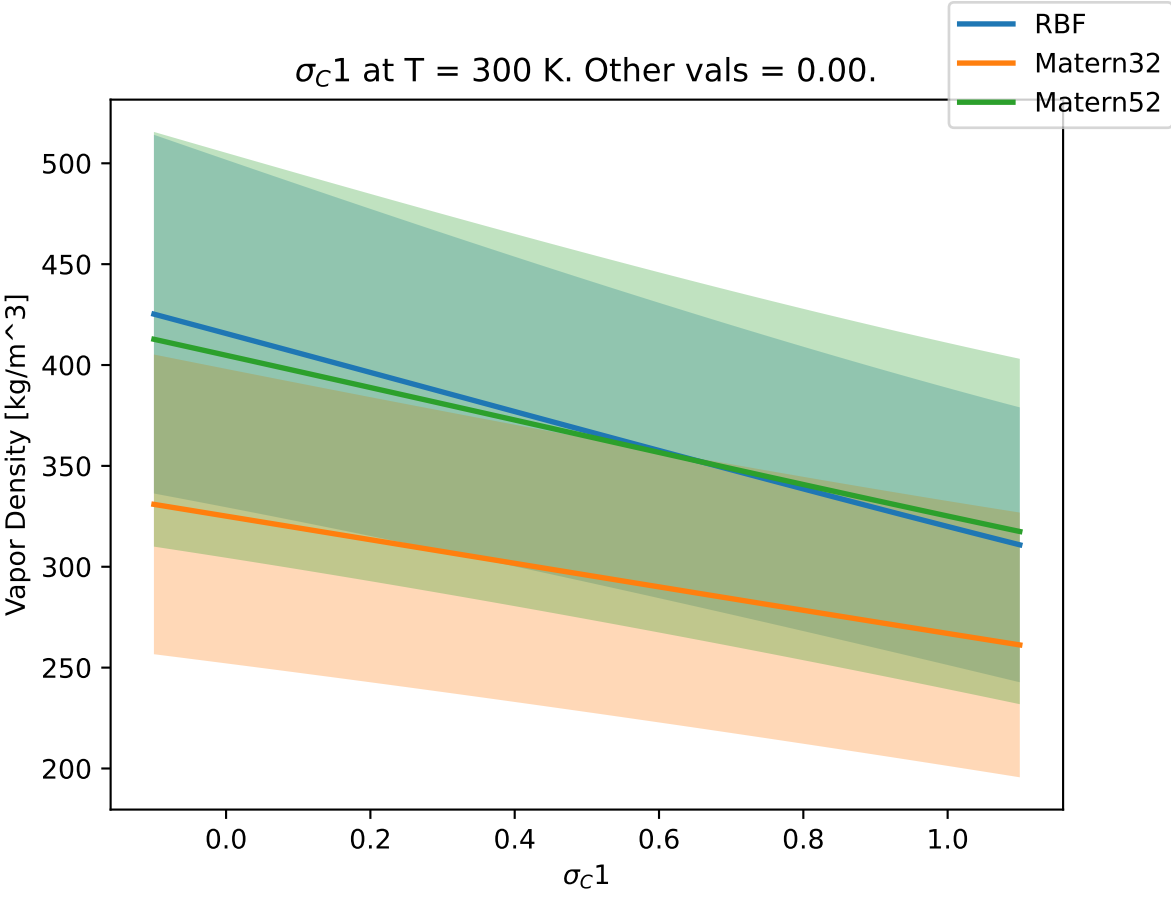

RBF
Matern32
Matern52
Other vals = 0.60
Vapor Density [kg/m^3]
Temperature
150
125
100
75
50
25
0
−25
220
240
260
280
300
320
340

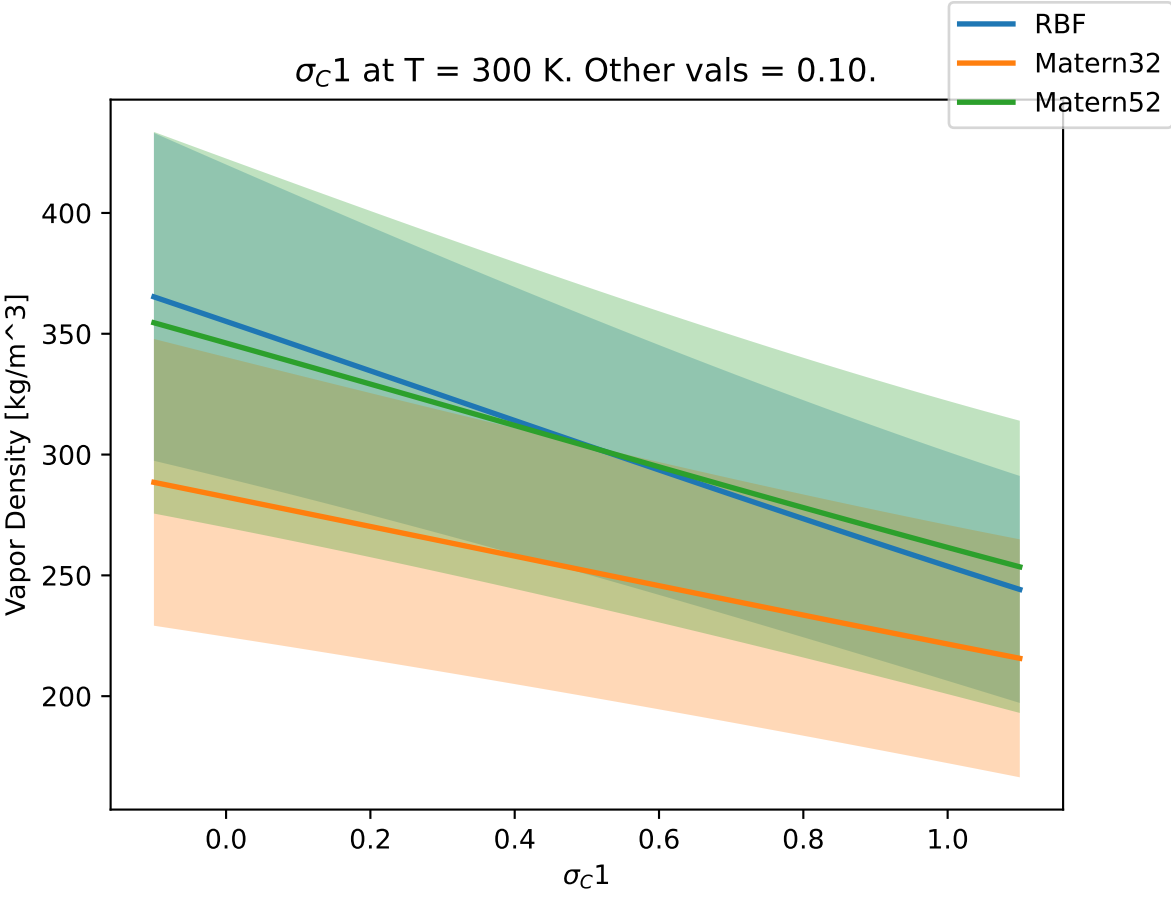

RBF
Matern32
Matern52
Other vals = 0.70
Vapor Density [kg/m^3]
Temperature
100
80
60
40
20
0
−20
−40
220
240
260
280
300
320
340

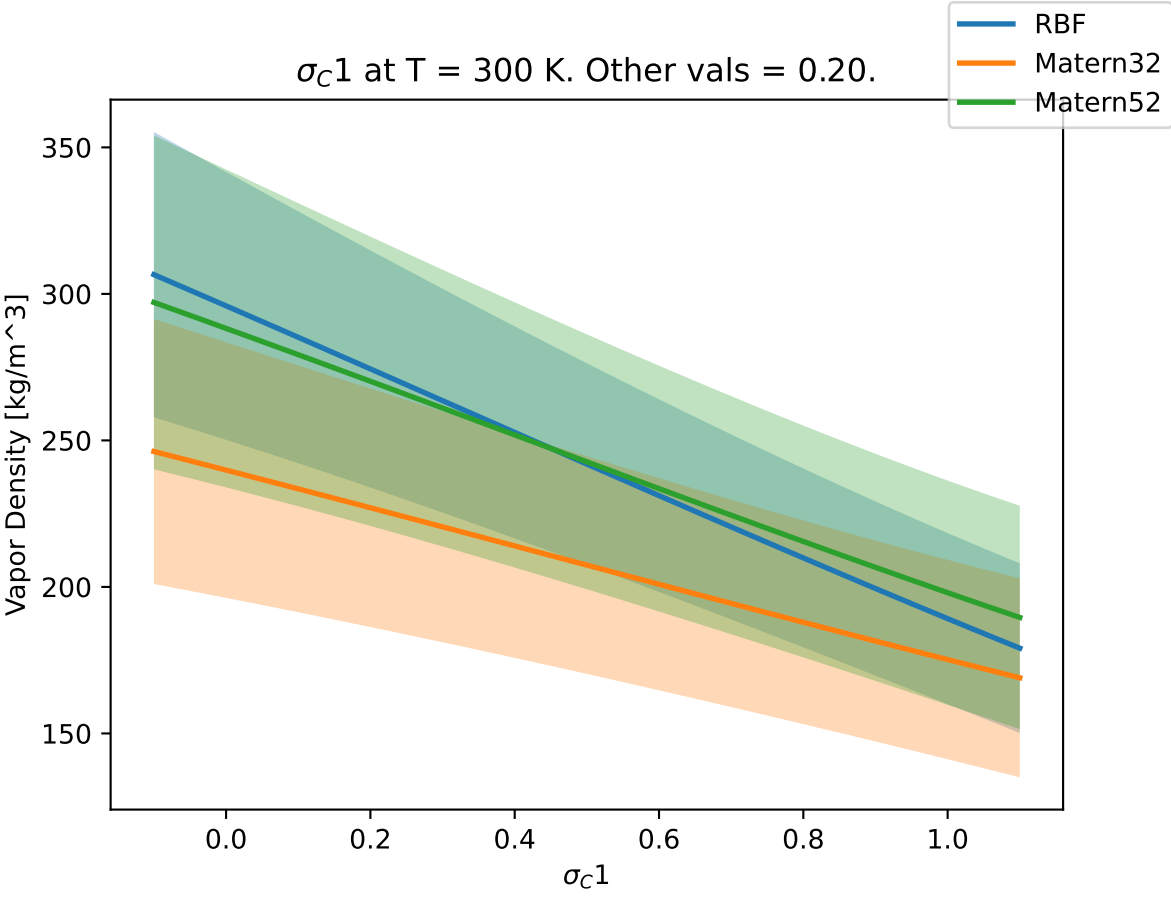

RBF
Matern32
Matern52
Other vals = 0.80
Vapor Density [kg/m^3]
50
25
0
−25
−50
−75
−100
220
240
260
280
300
320
340
Temperature

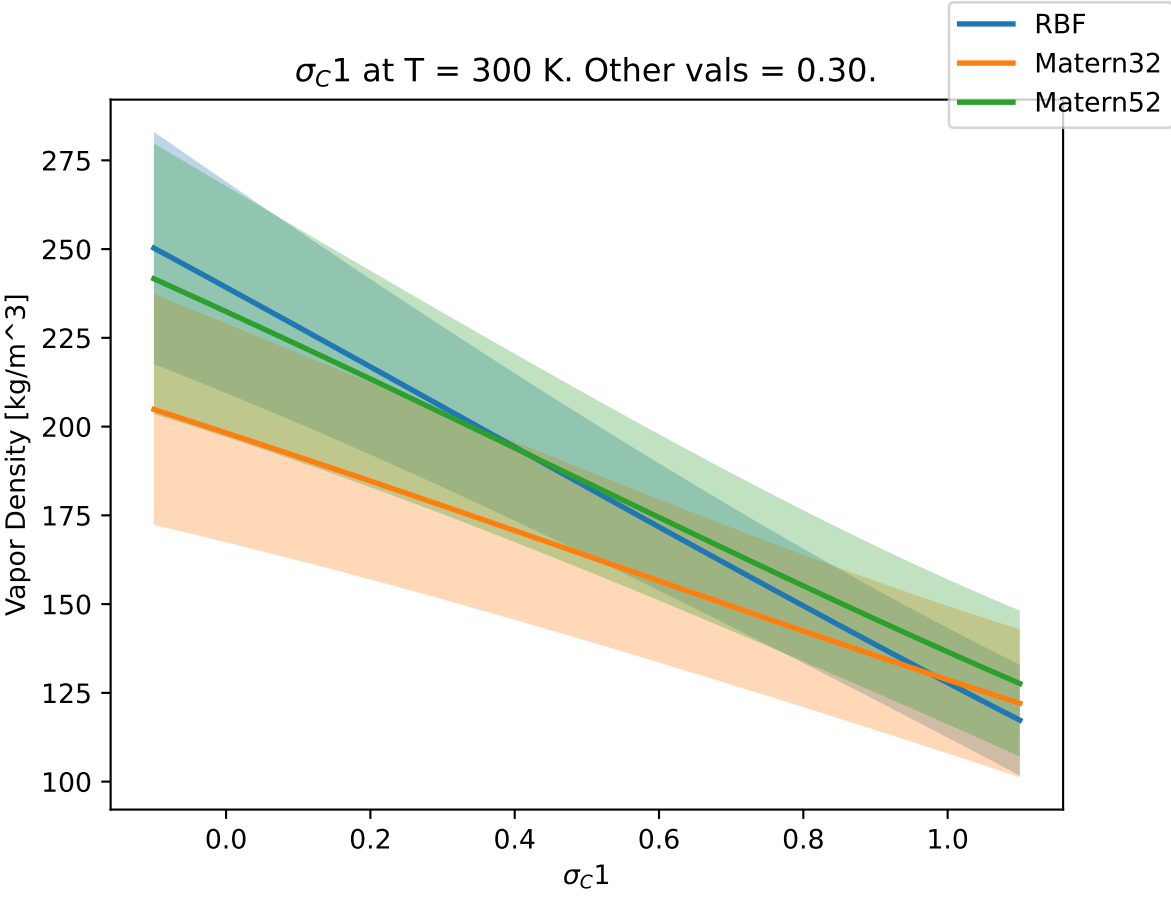

RBF
Matern32
Matern52
Other vals = 0.90
50
0
−50
−100
−150
Vapor Density [kg/m^3]
220
240
260
280
300
320
340
Temperature

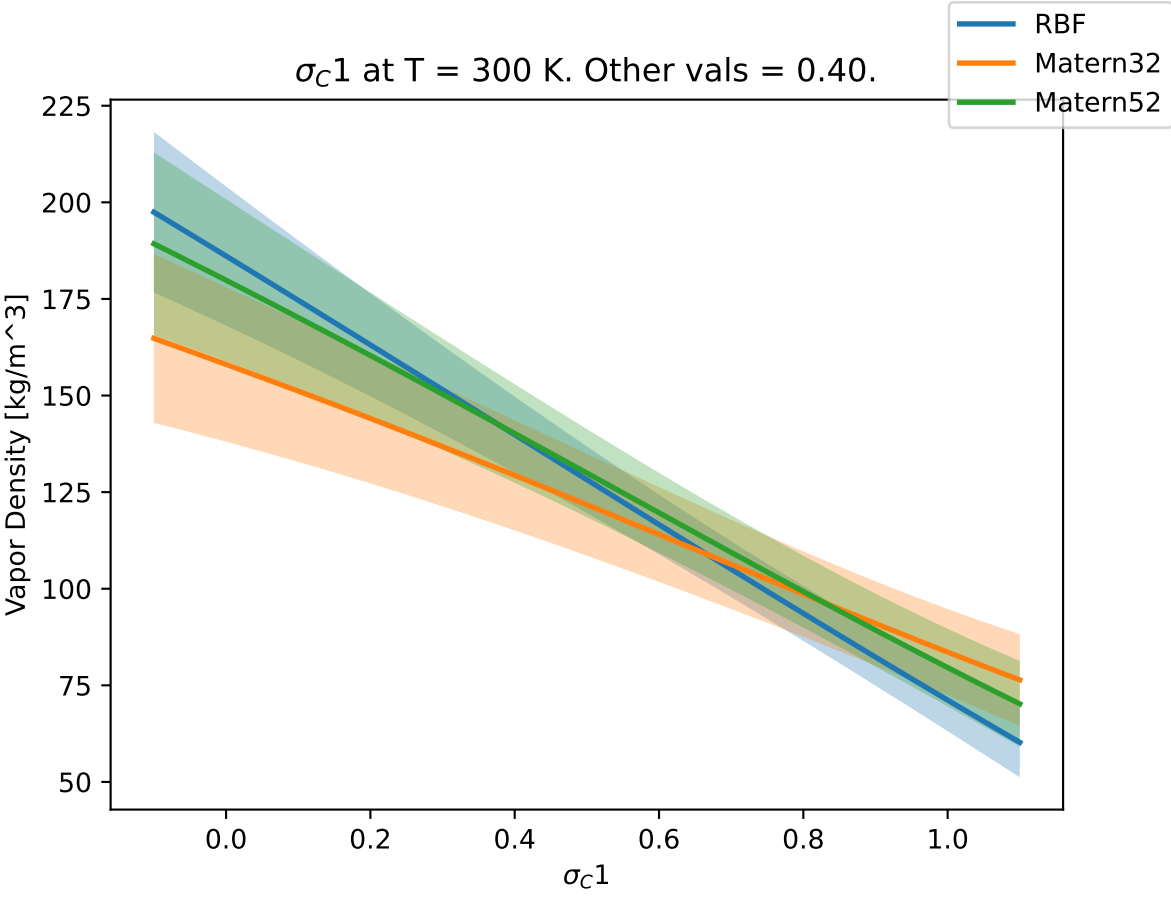

RBF
Matern32
Matern52
Other vals = 1.00
Vapor Density [kg/m^3]
0
−50
−100
−150
−200
−250
220
240
260
280
300
320
340
Temperature

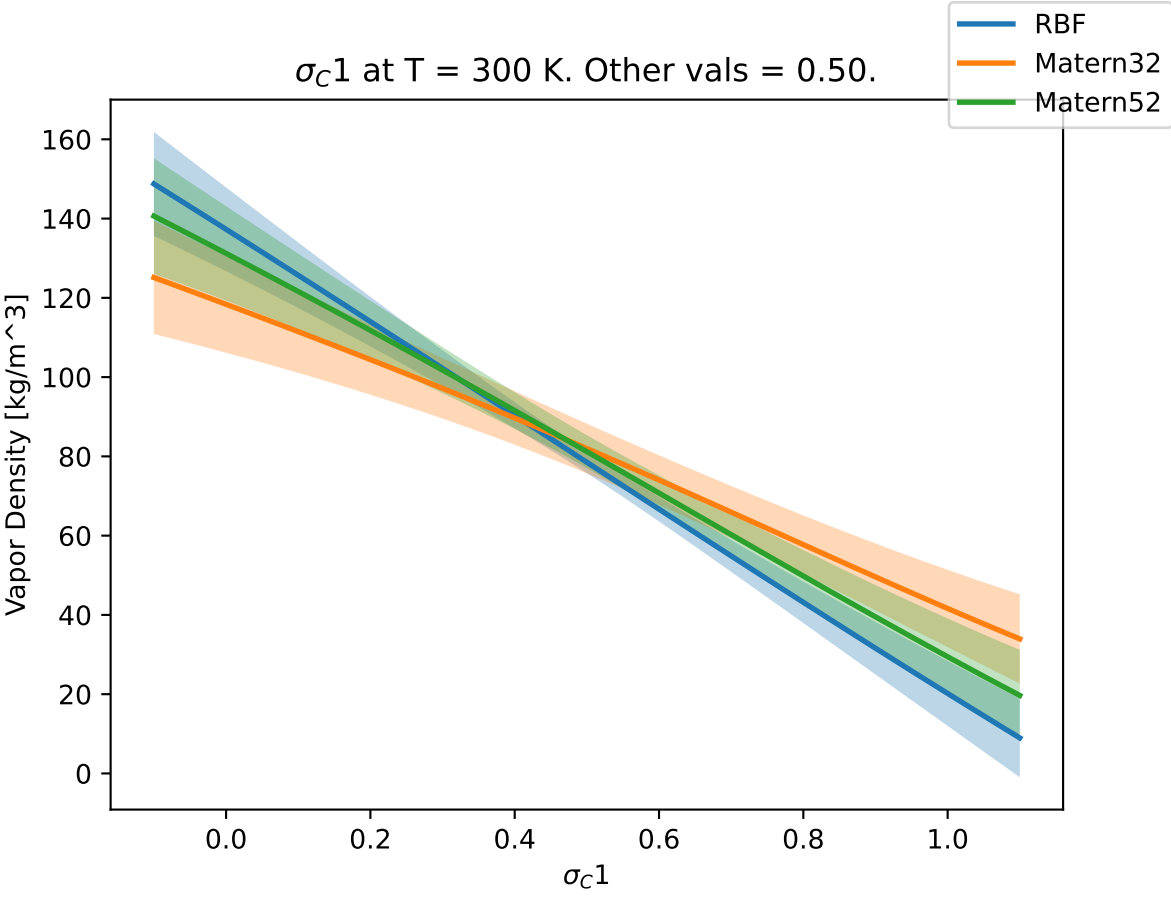

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

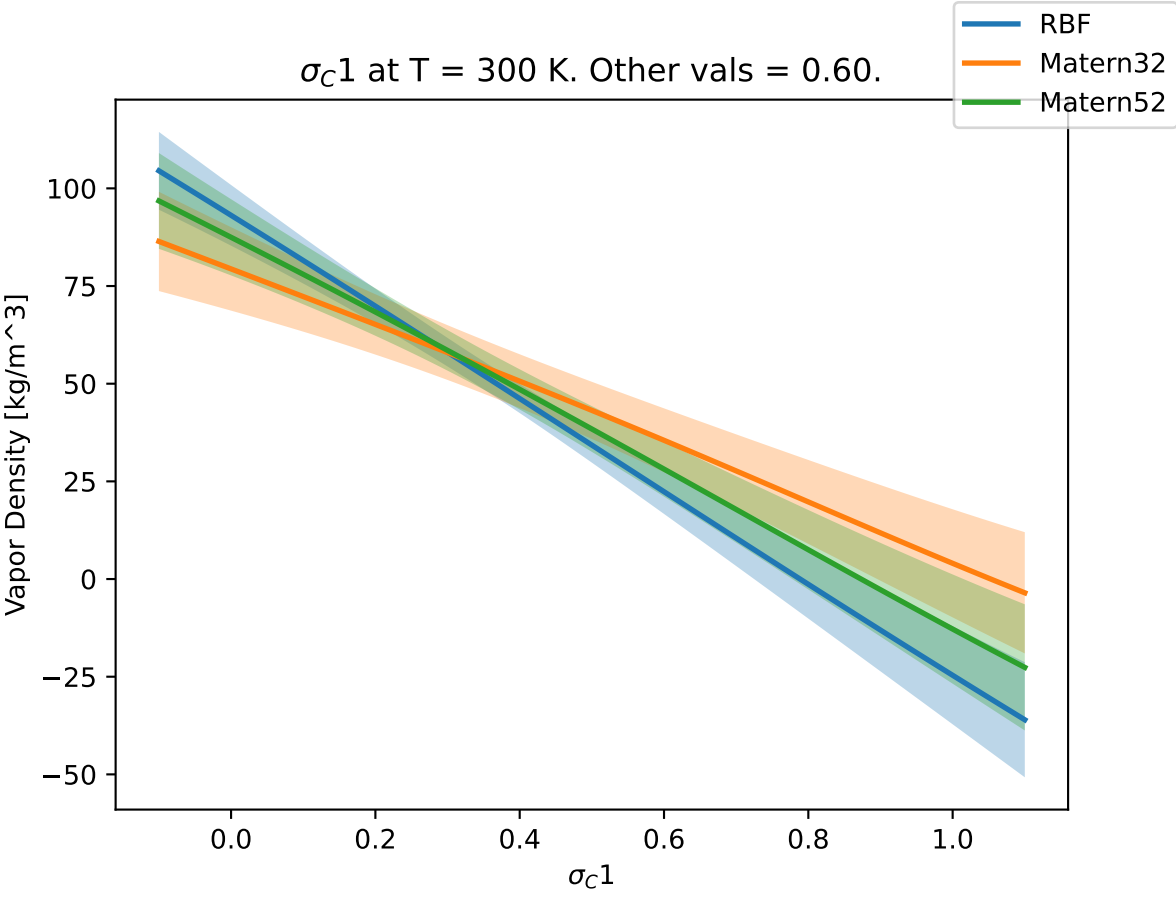

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

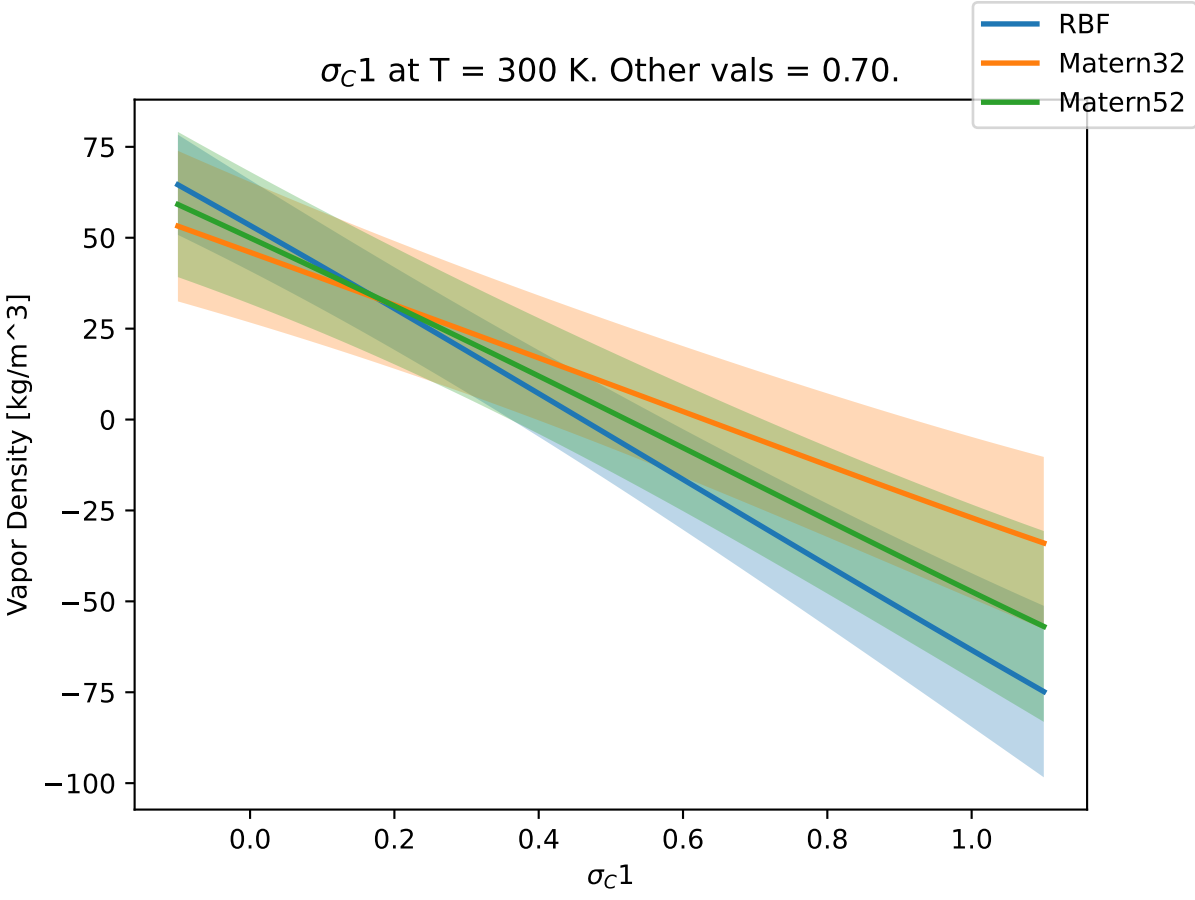

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

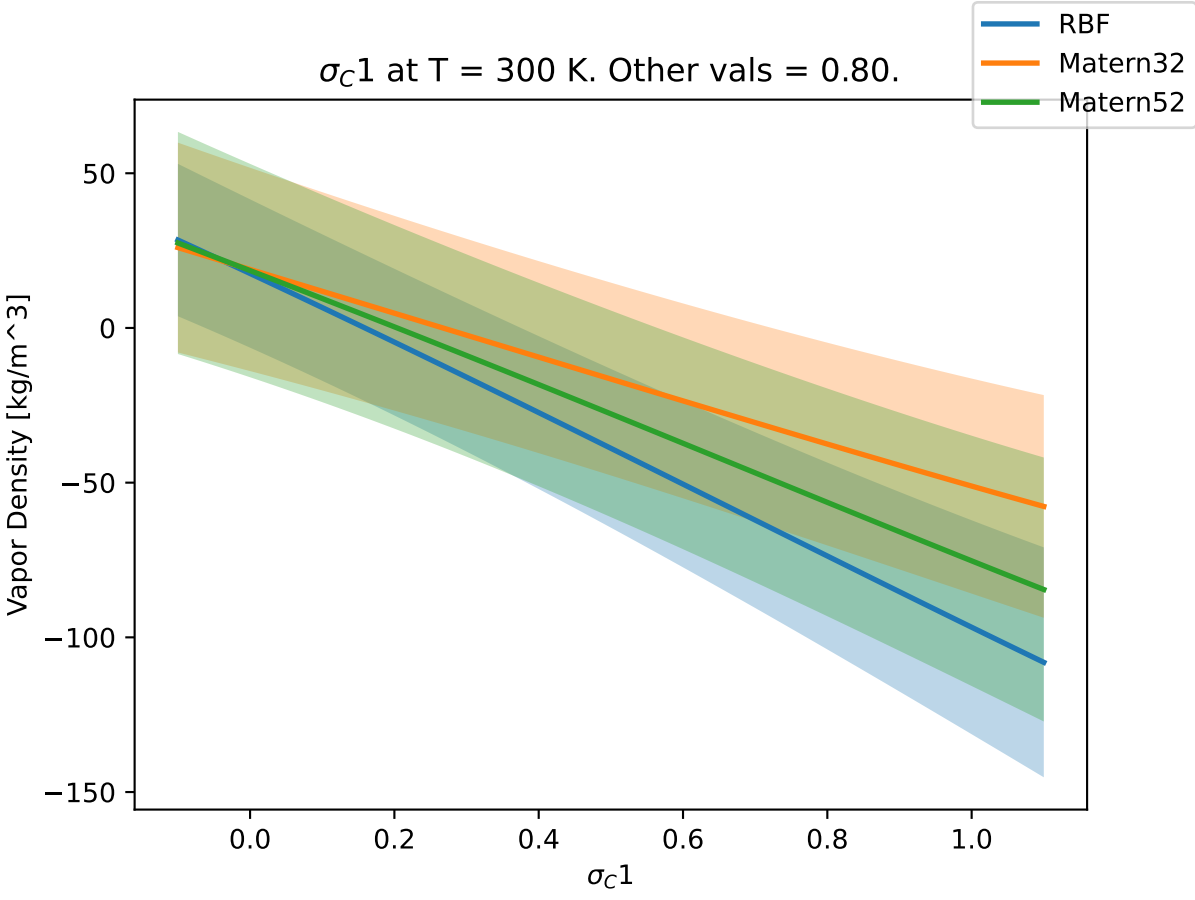

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
275
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

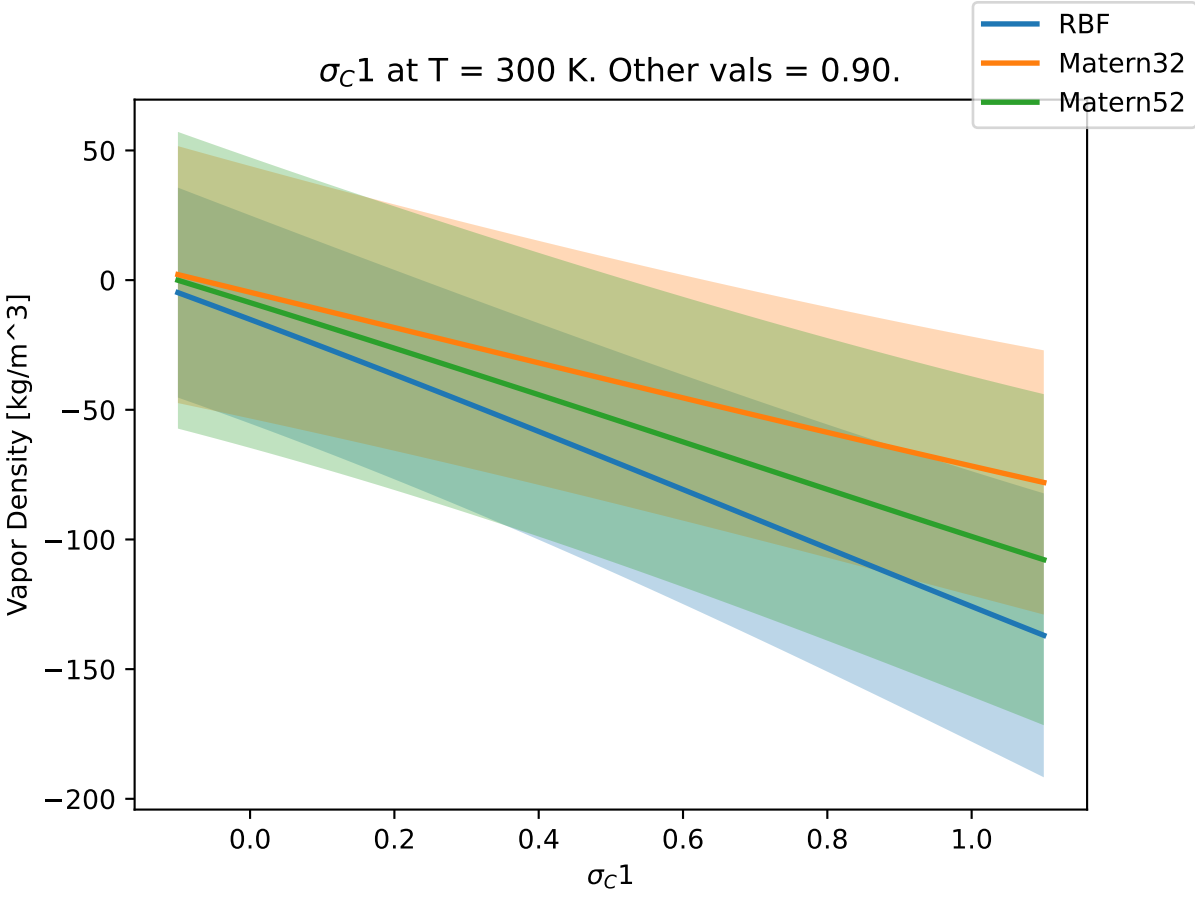

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
225
200
175
150
125
100
75
50
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

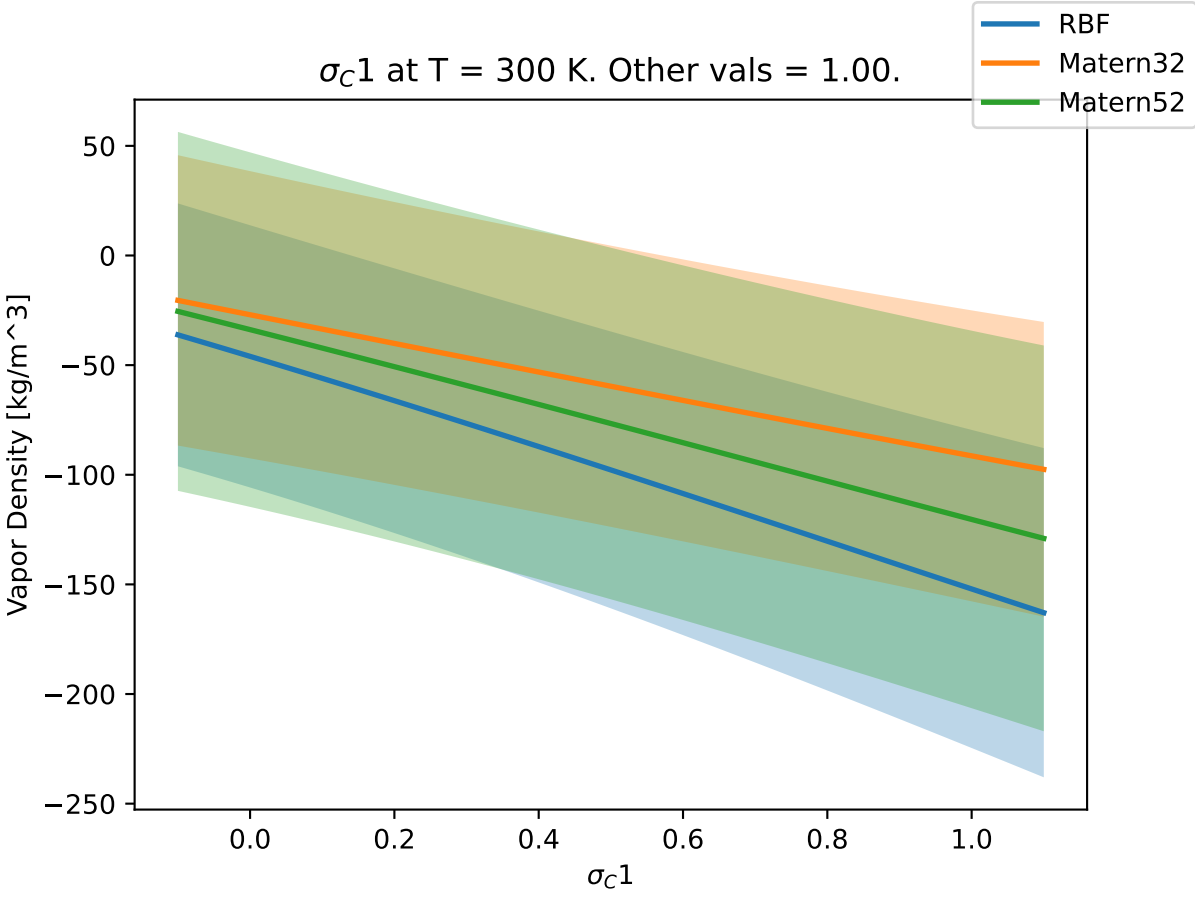

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
160
140
120
100
80
60
40
20
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

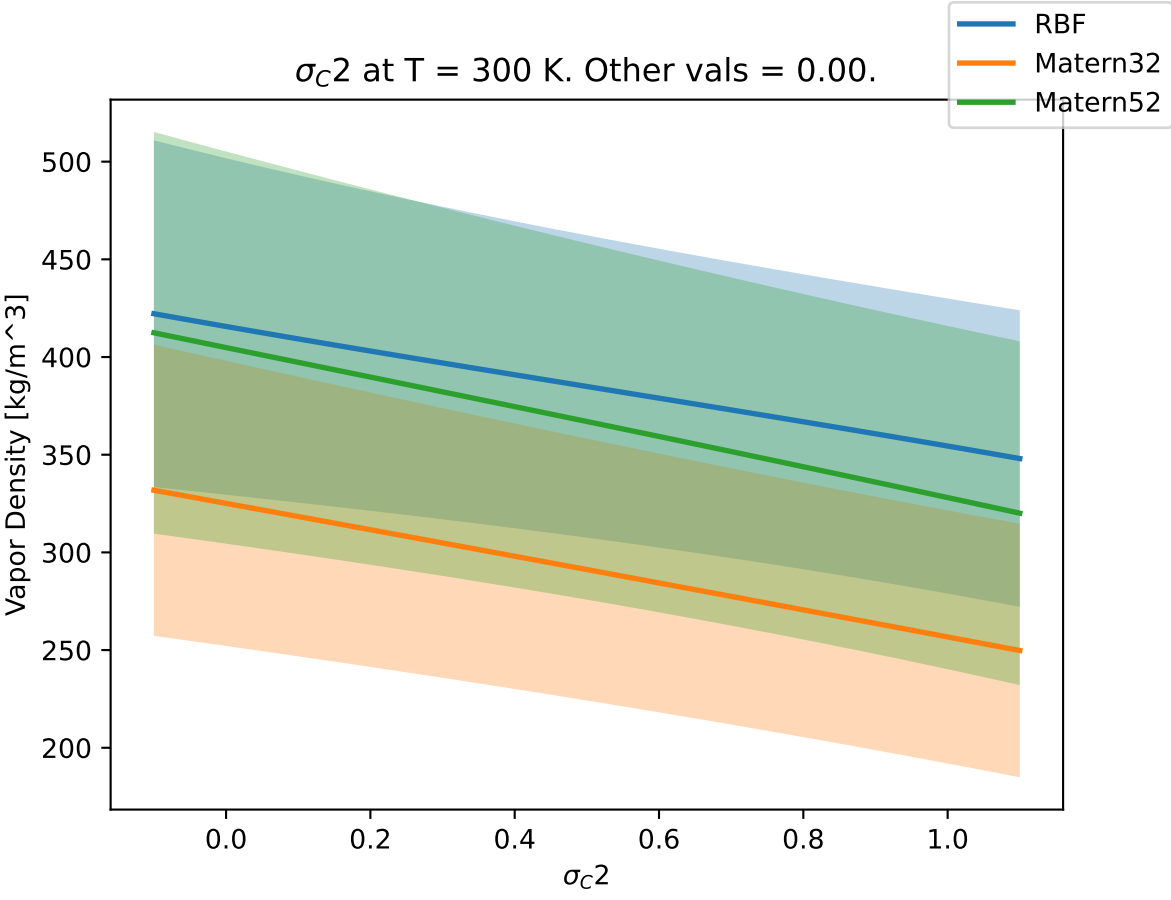

RBF
Matern32
Matern52
$\sigma_C 1$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
100
75
50
25
0
−25
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 1$

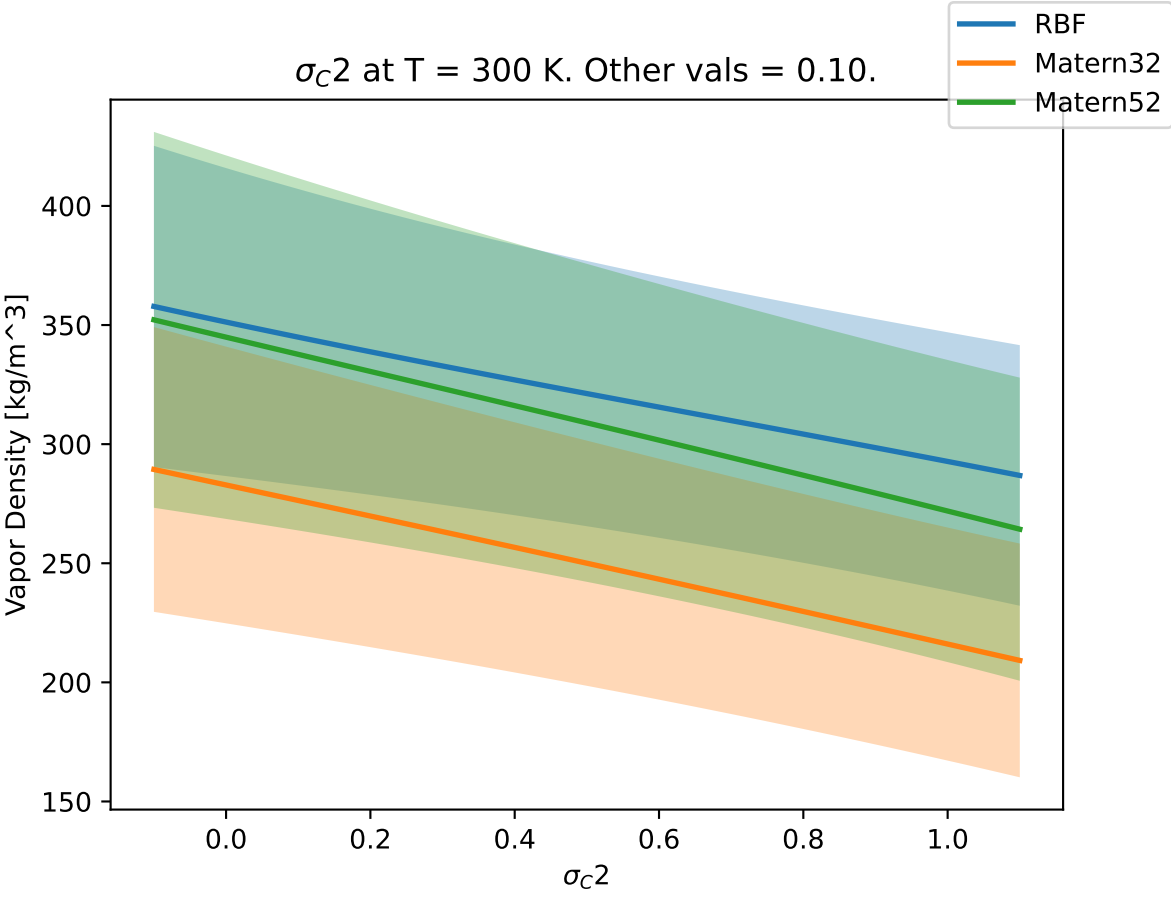

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
75
50
25
0
−25
−50
−75
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

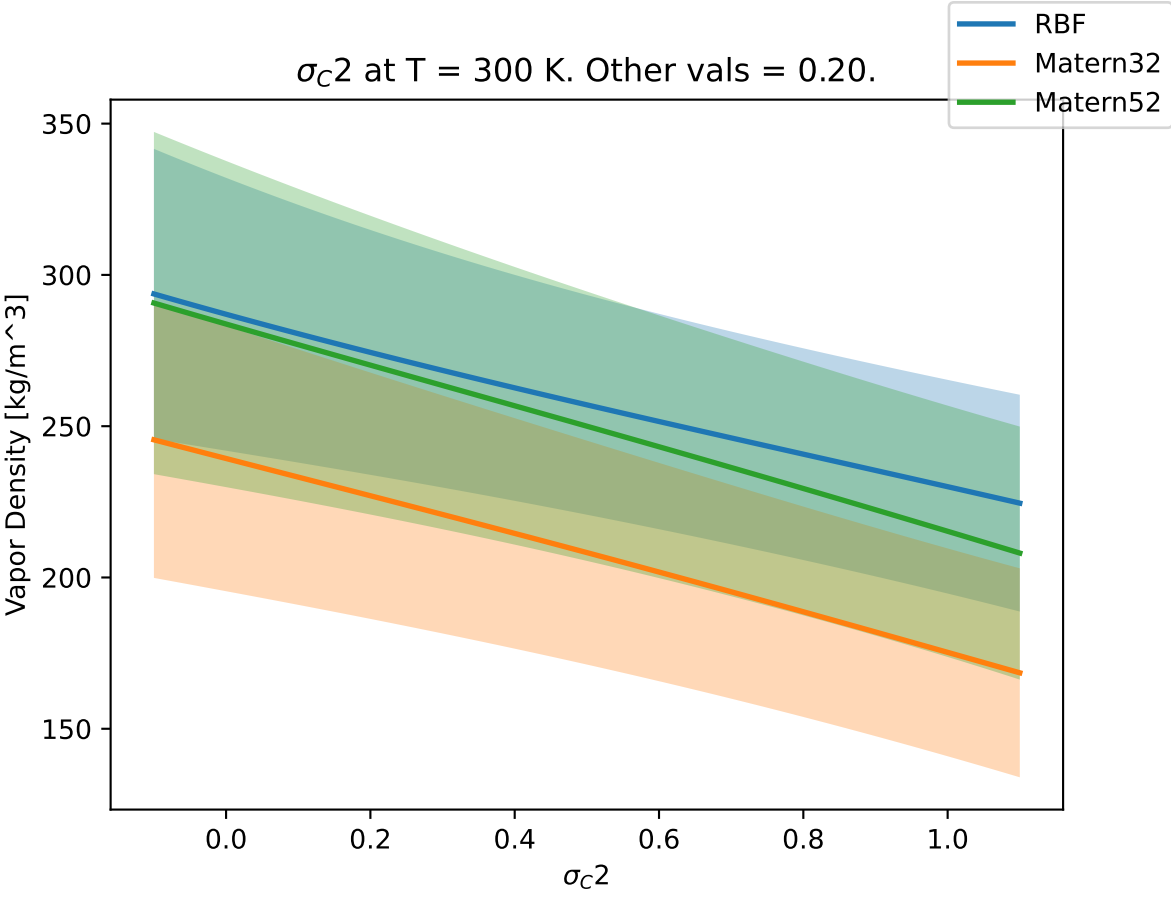

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

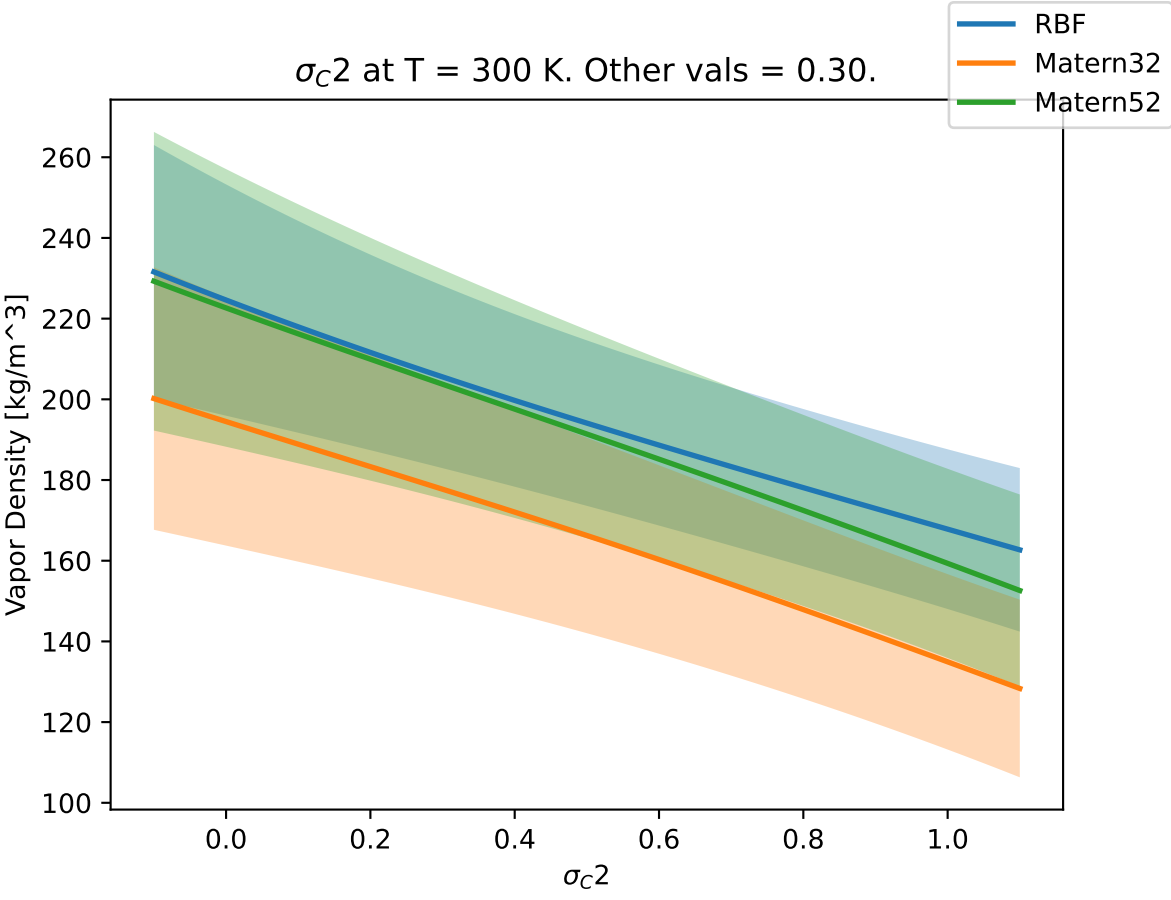

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

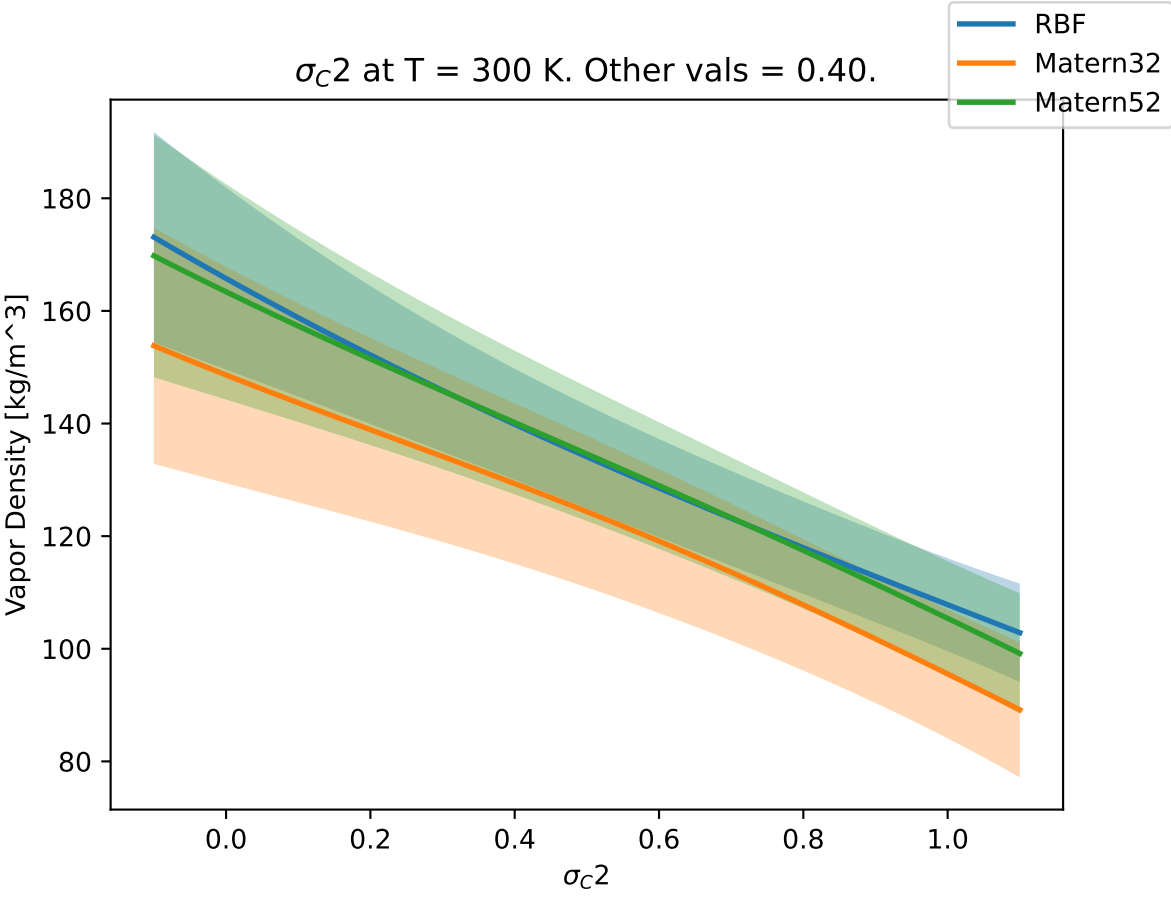

RBF
Matern32
Matern52
$\sigma_C 1$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 1$

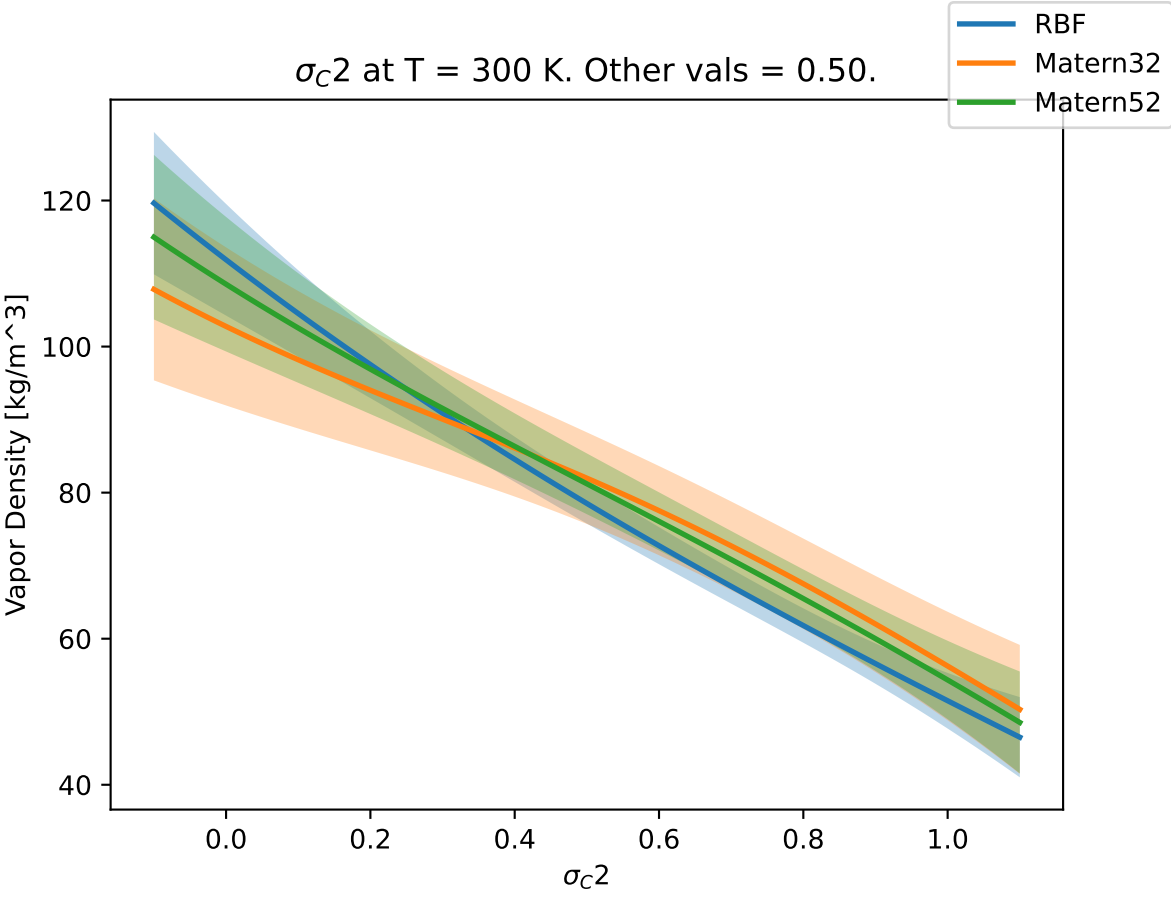

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

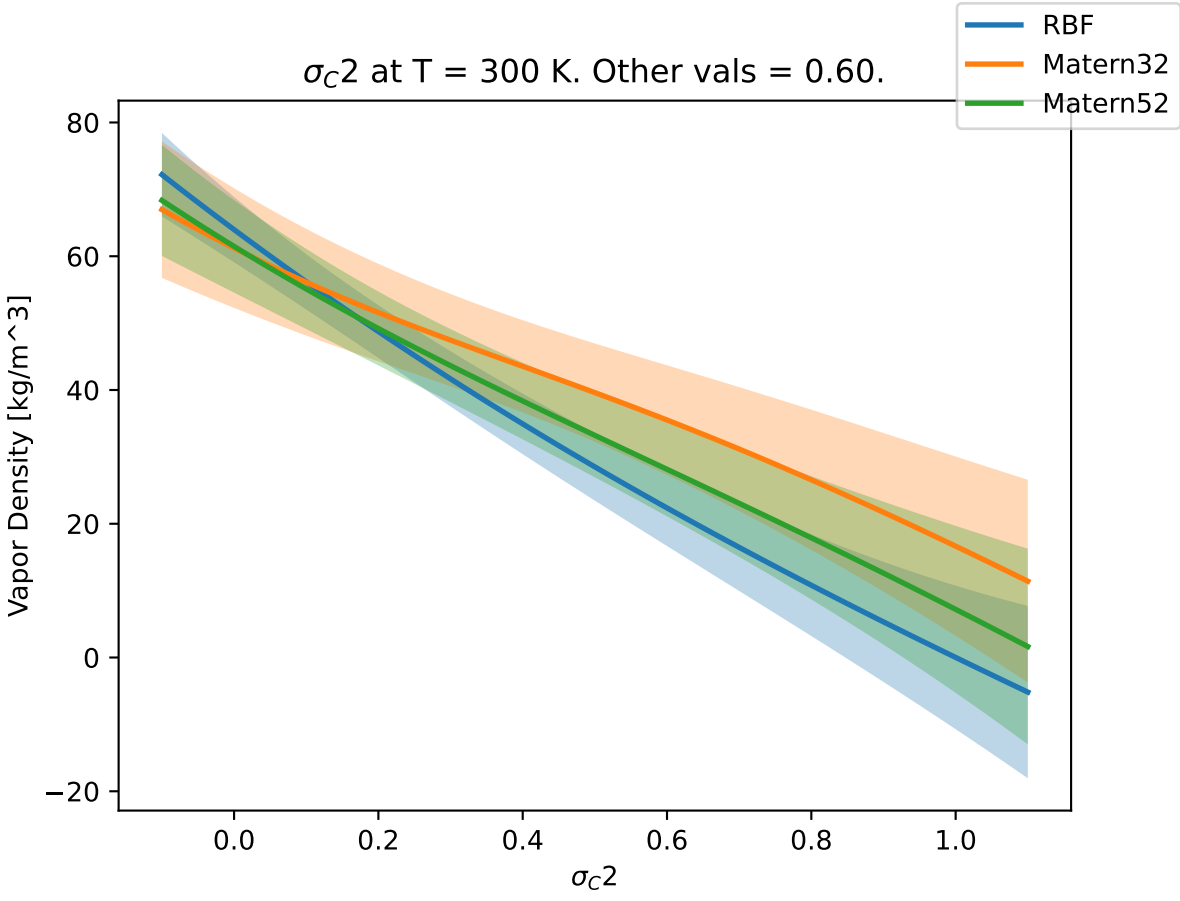

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

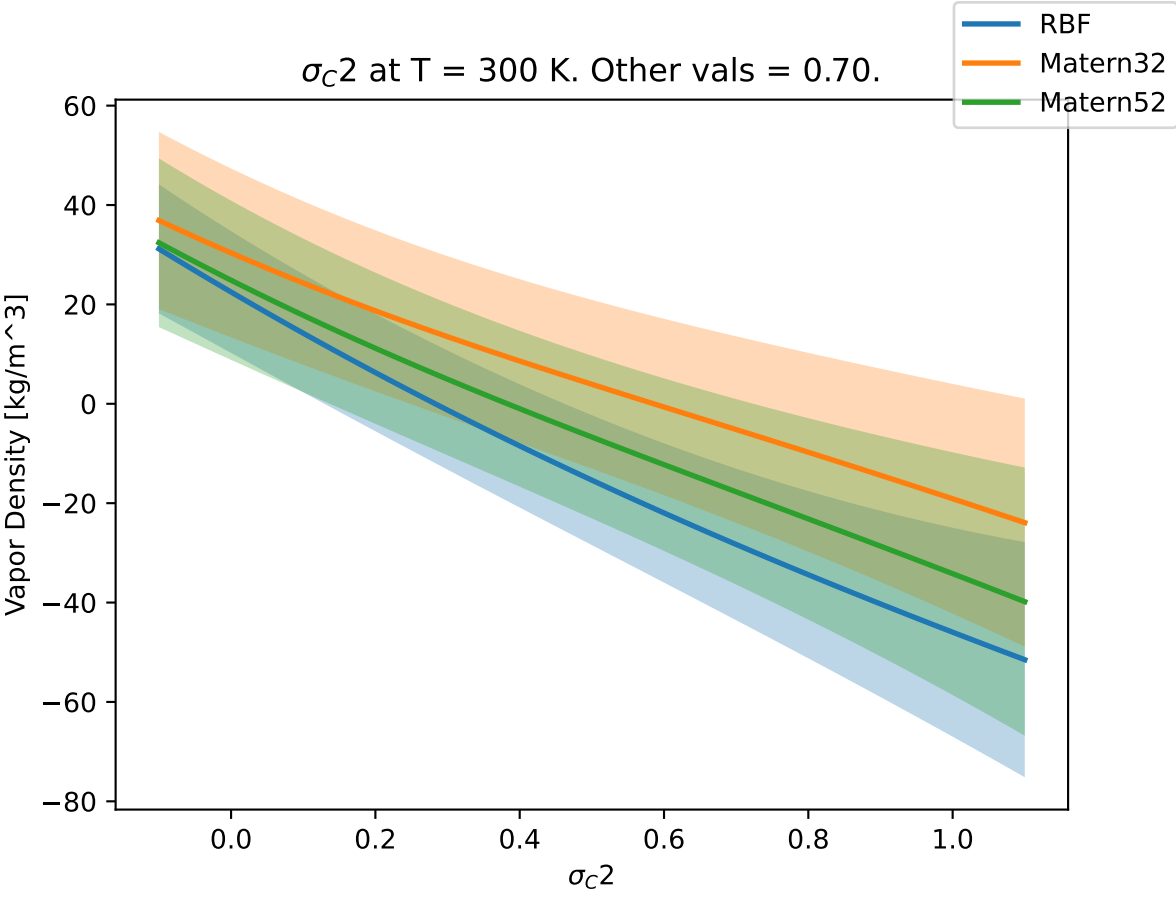

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

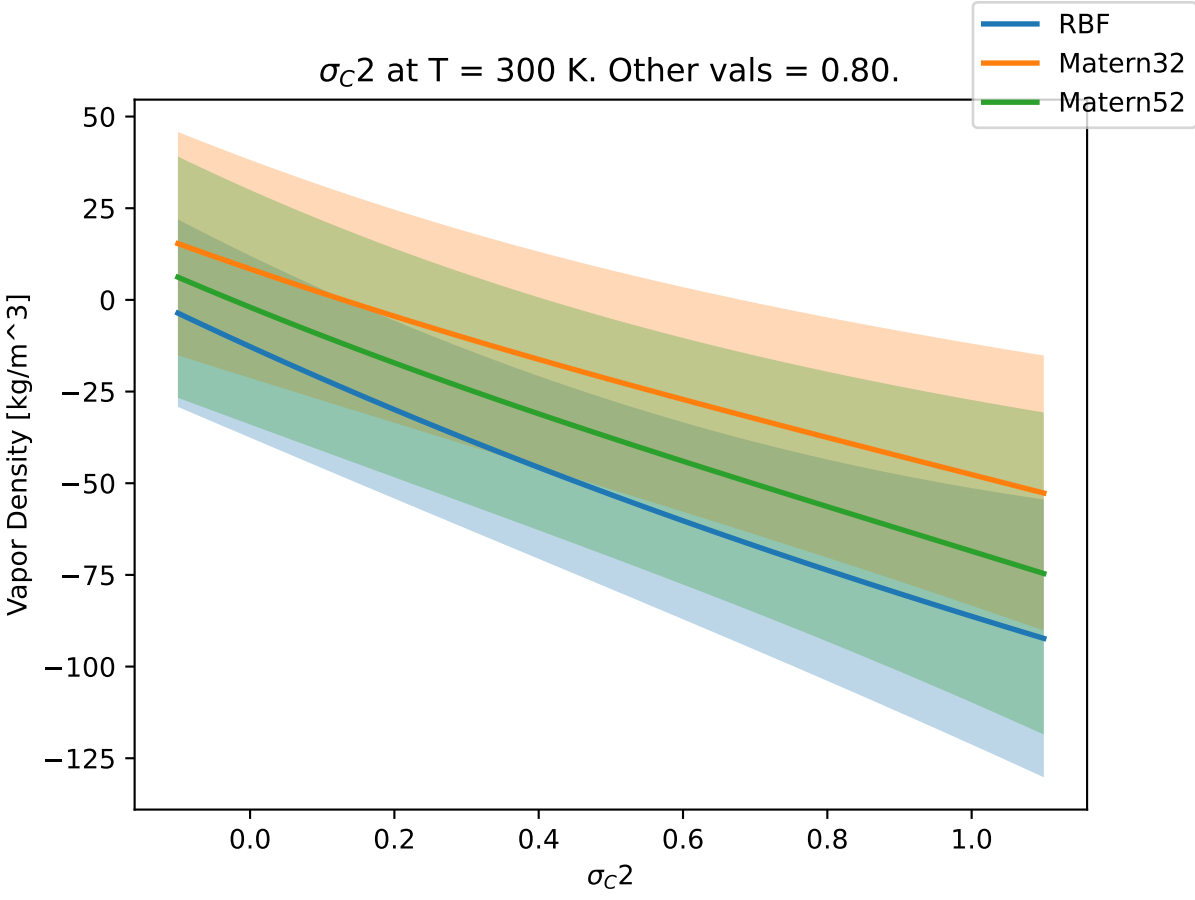

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
260
240
220
200
180
160
140
120
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

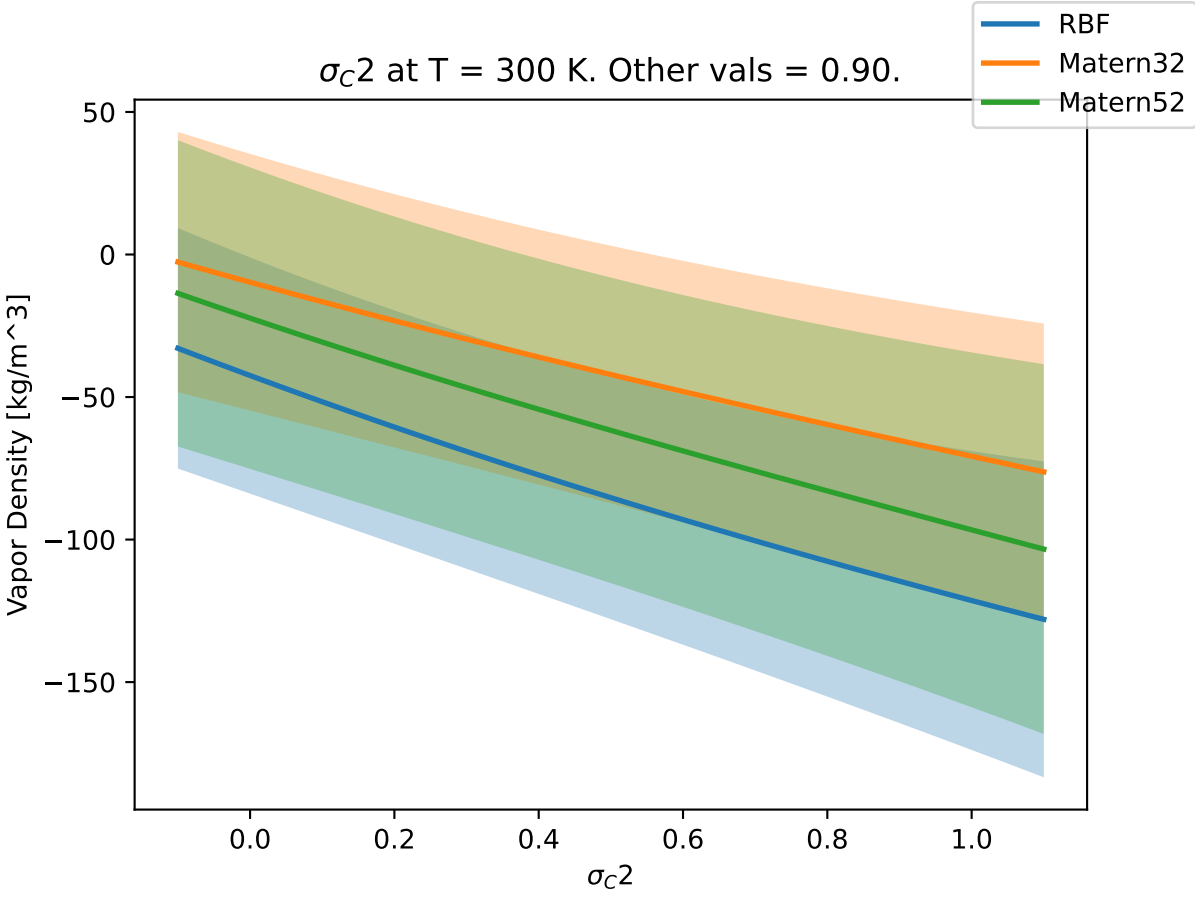

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
180
160
140
120
100
80
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

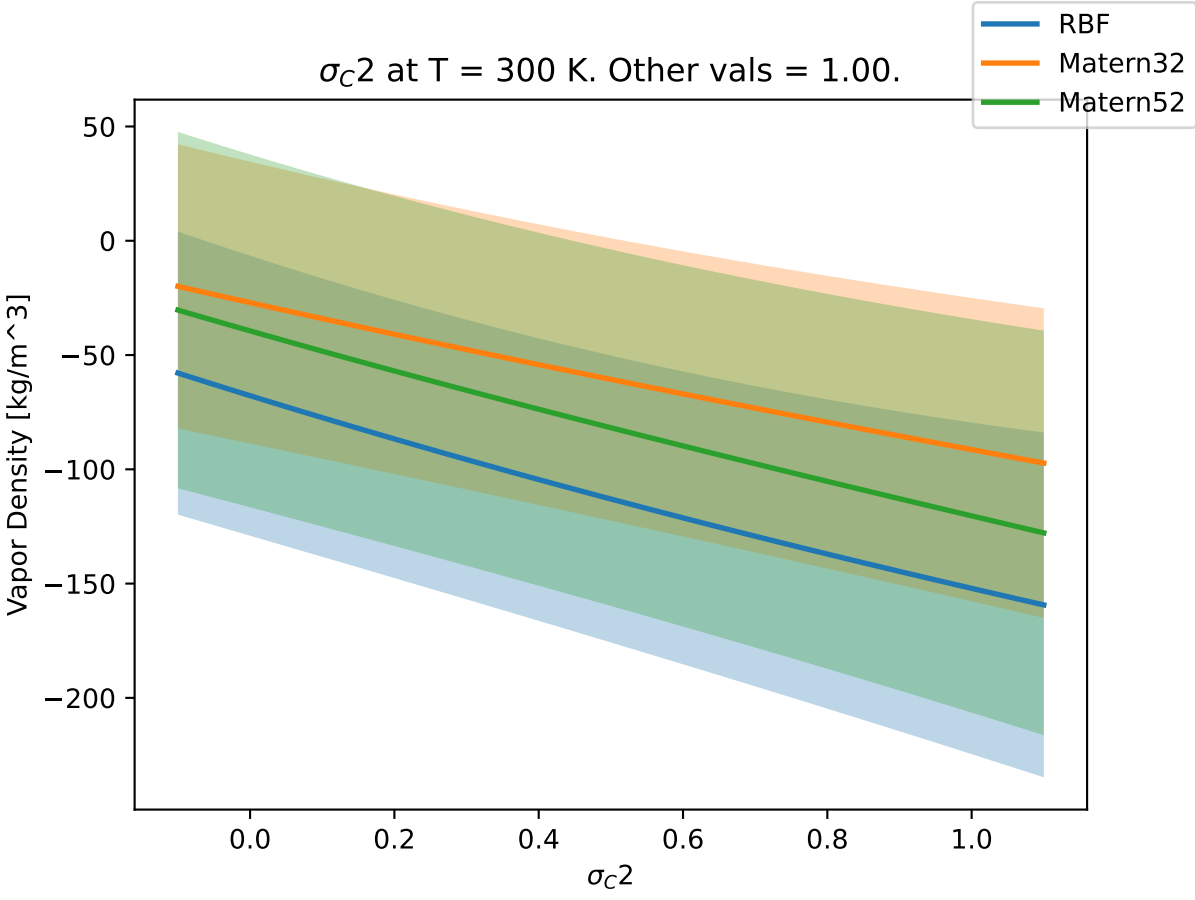

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

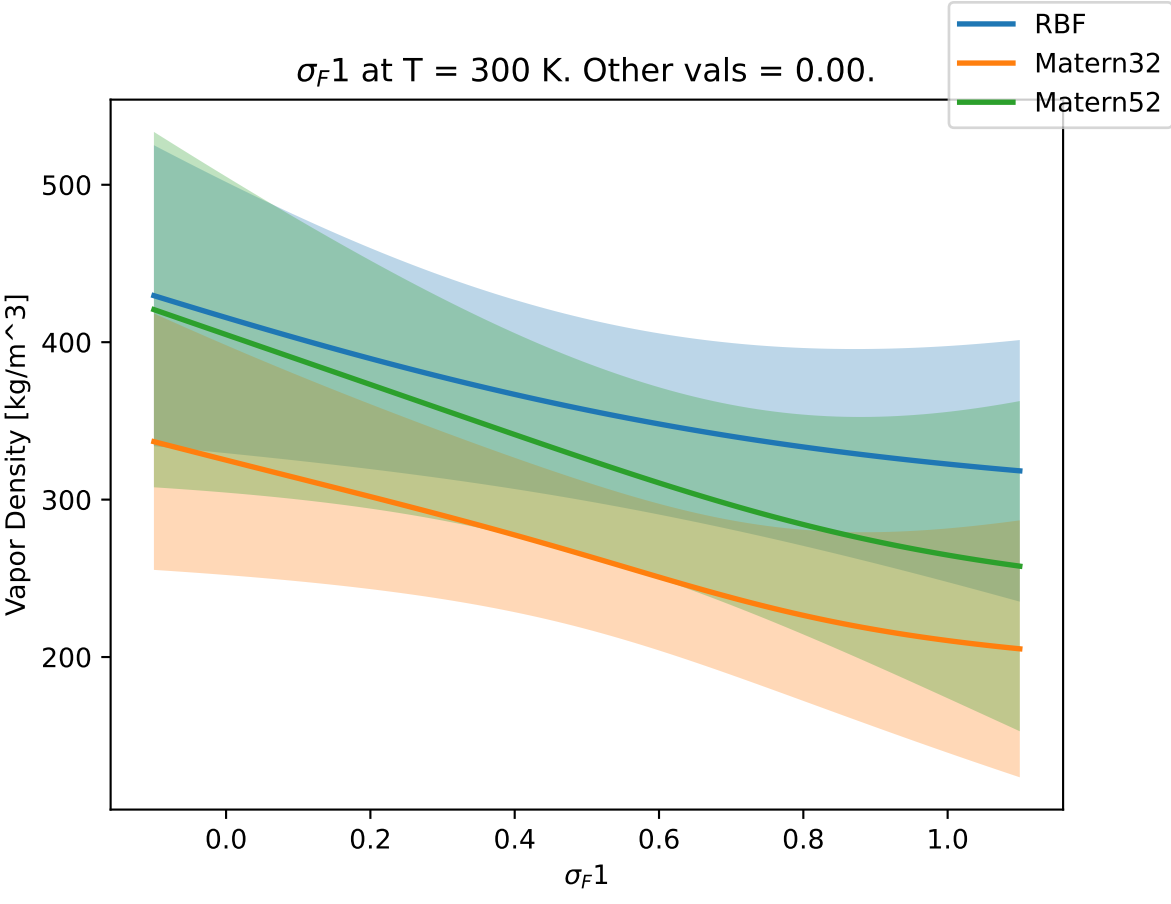

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

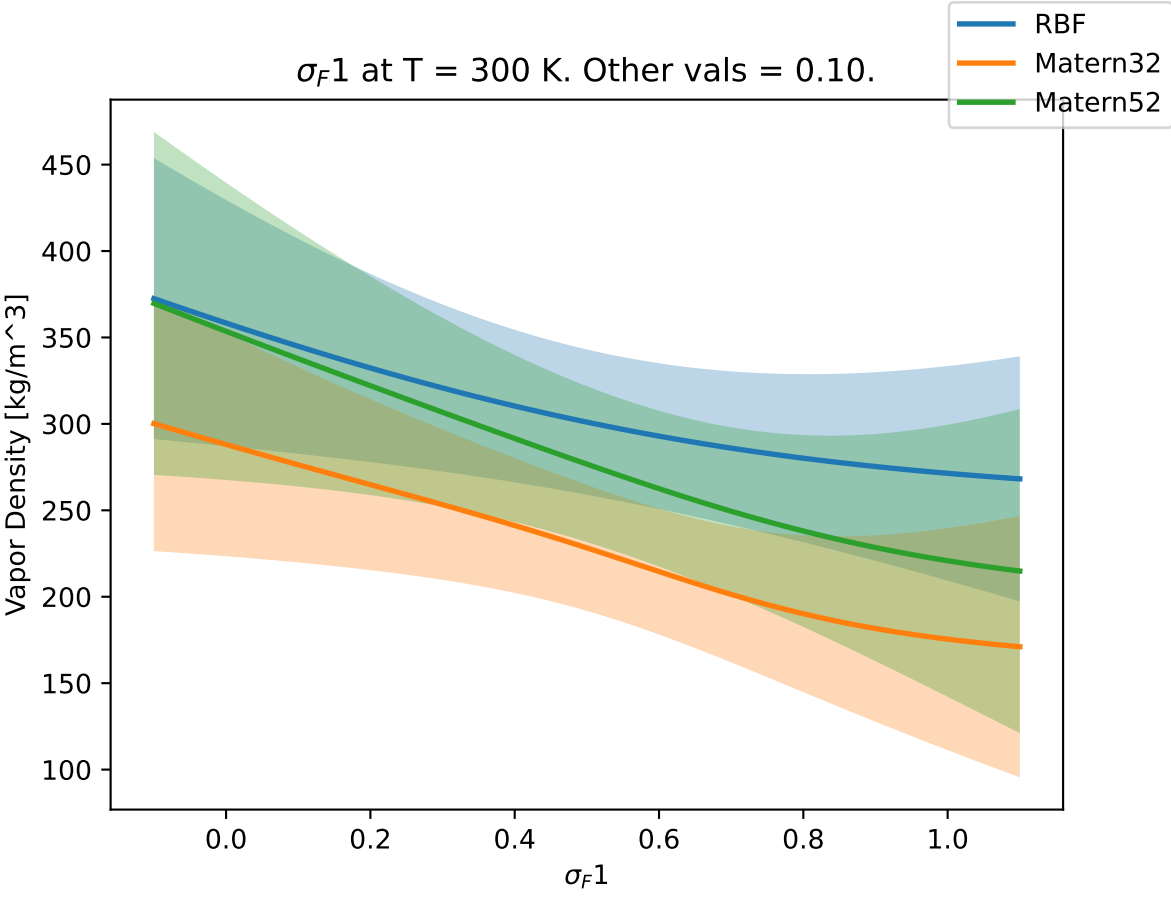

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
60
40
20
0
−20
−40
−60
−80
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

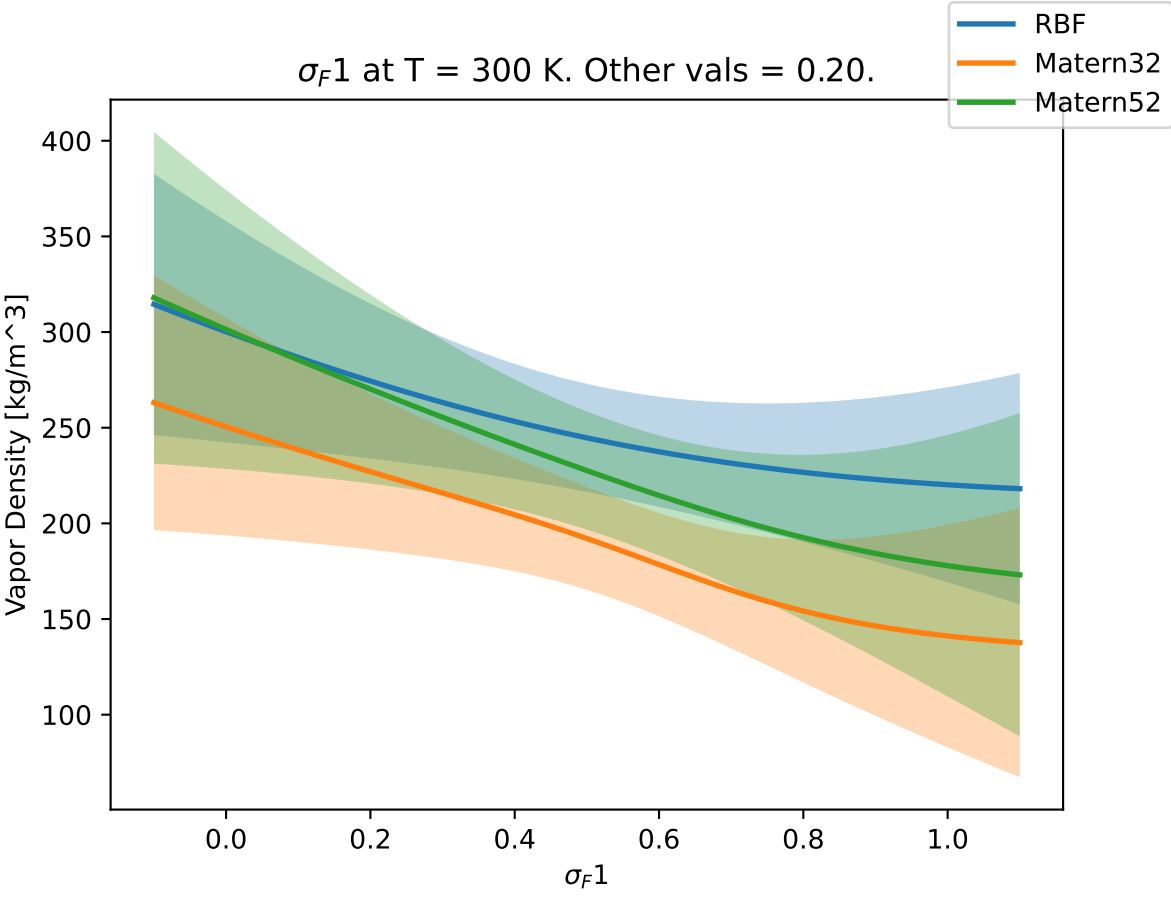

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
50
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

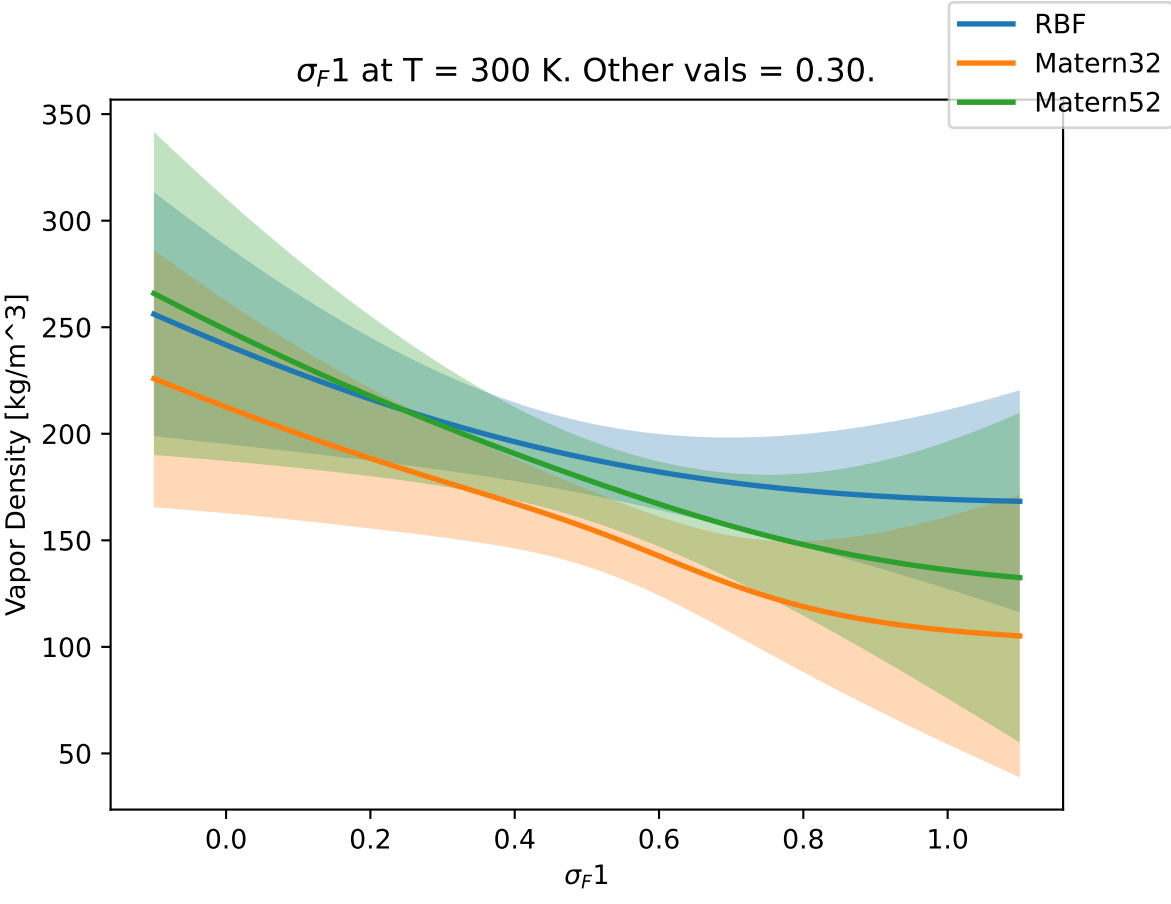

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

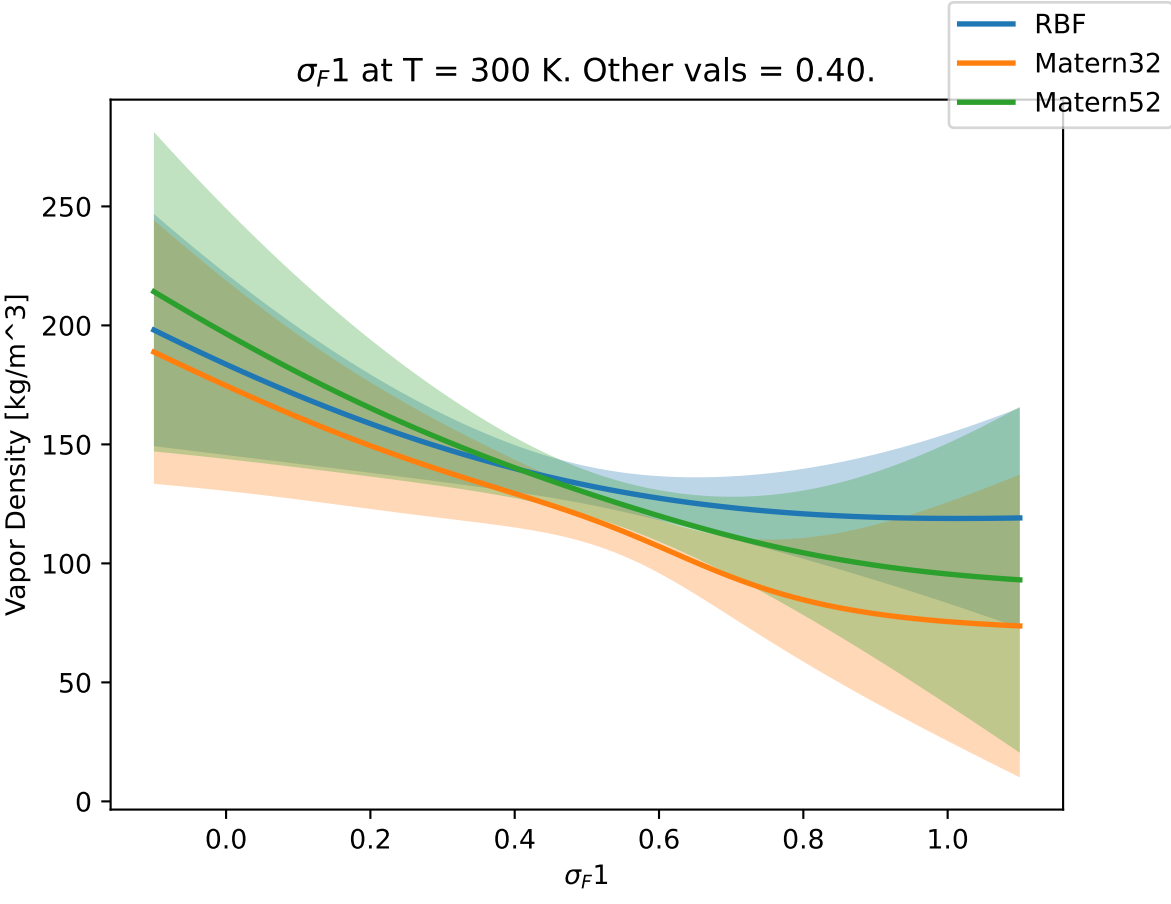

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

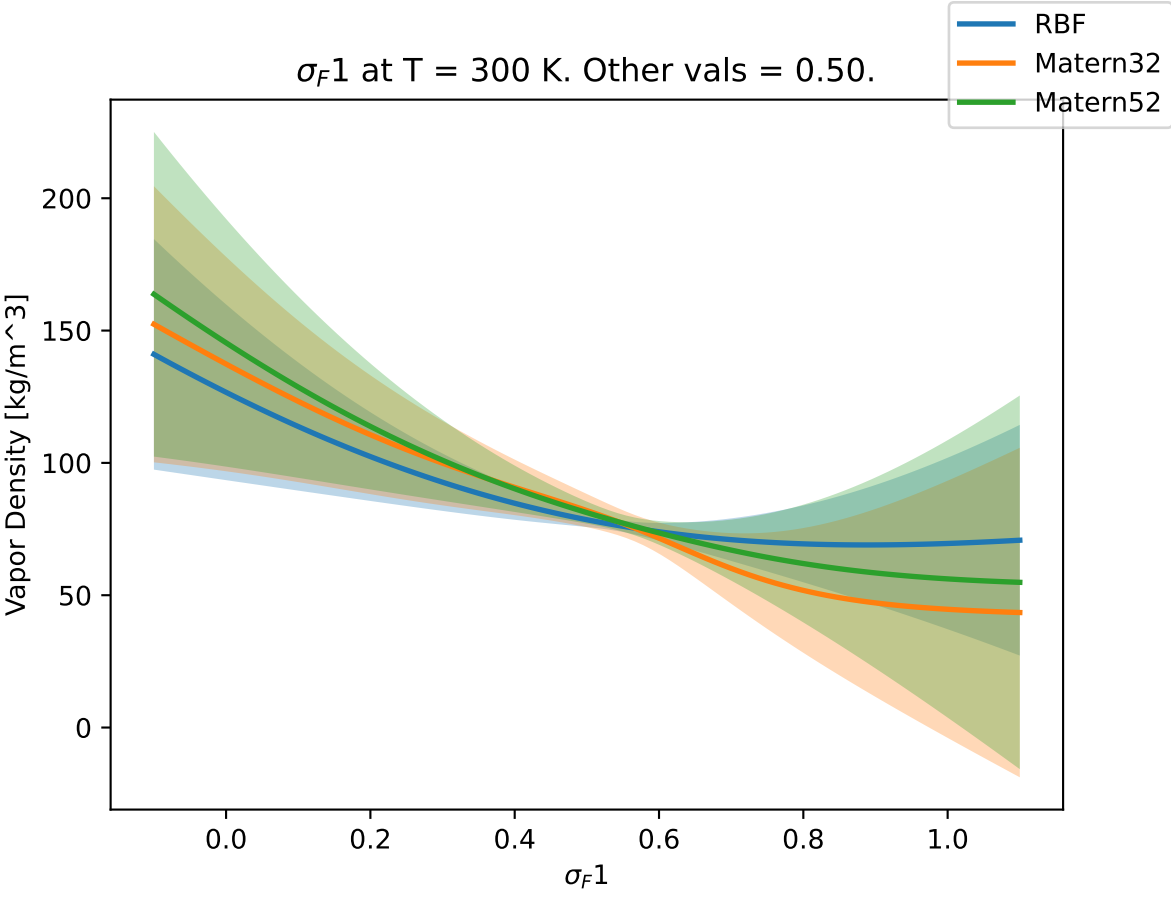

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
400
300
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

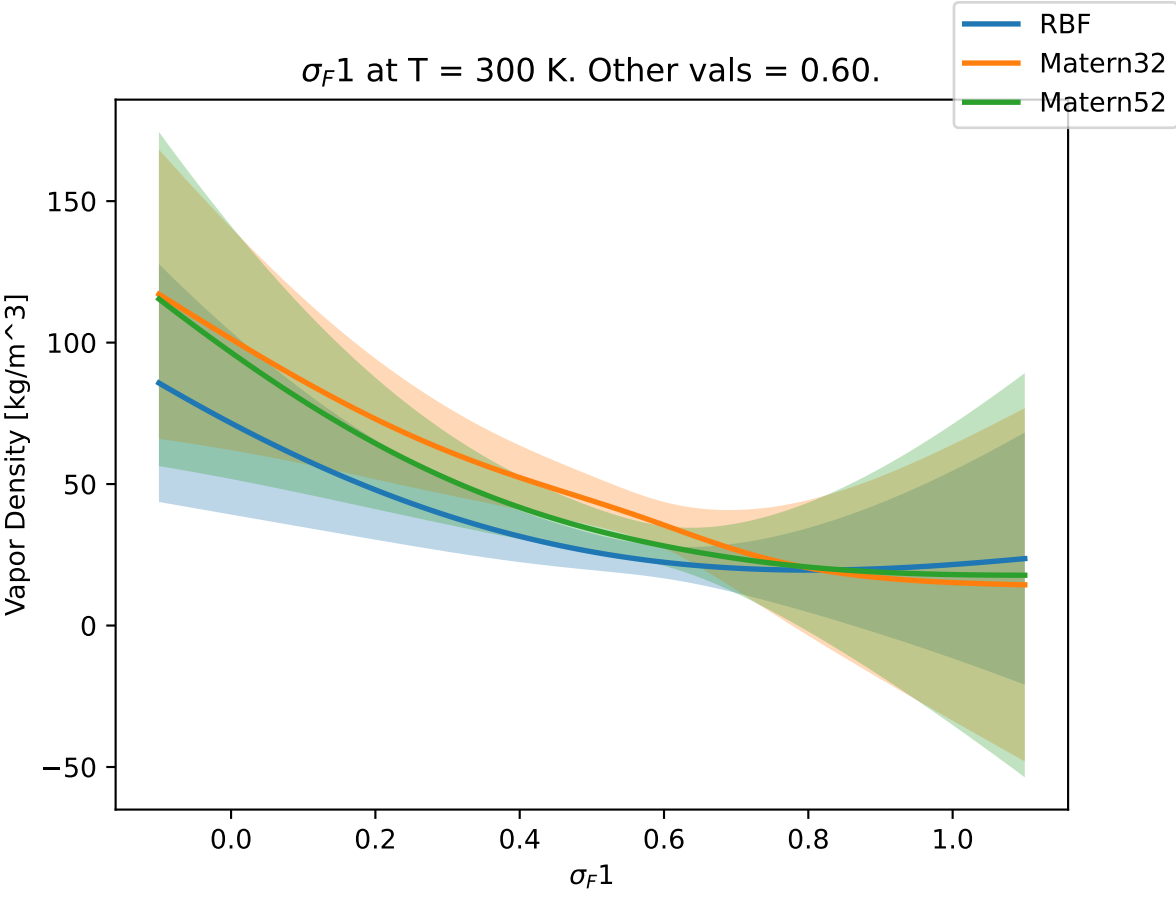

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
450
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

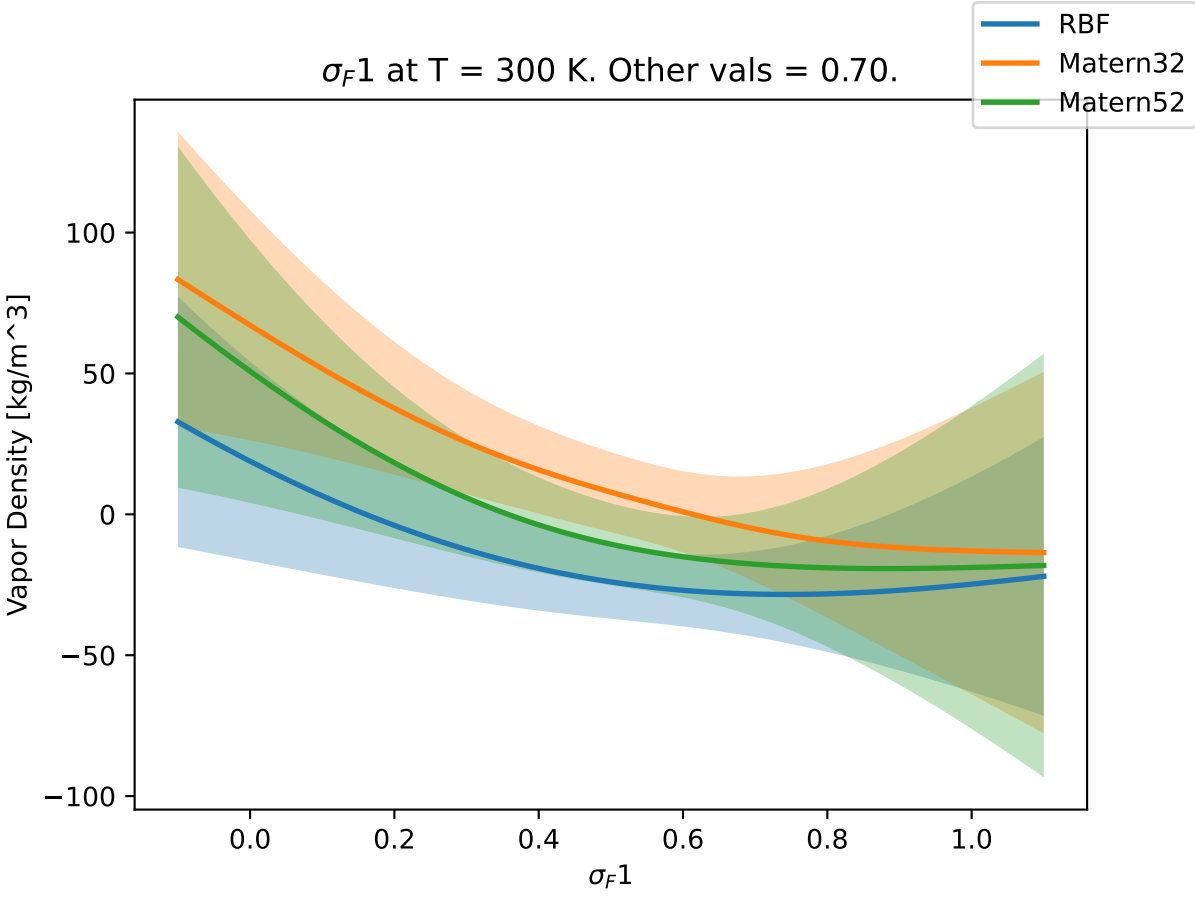

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

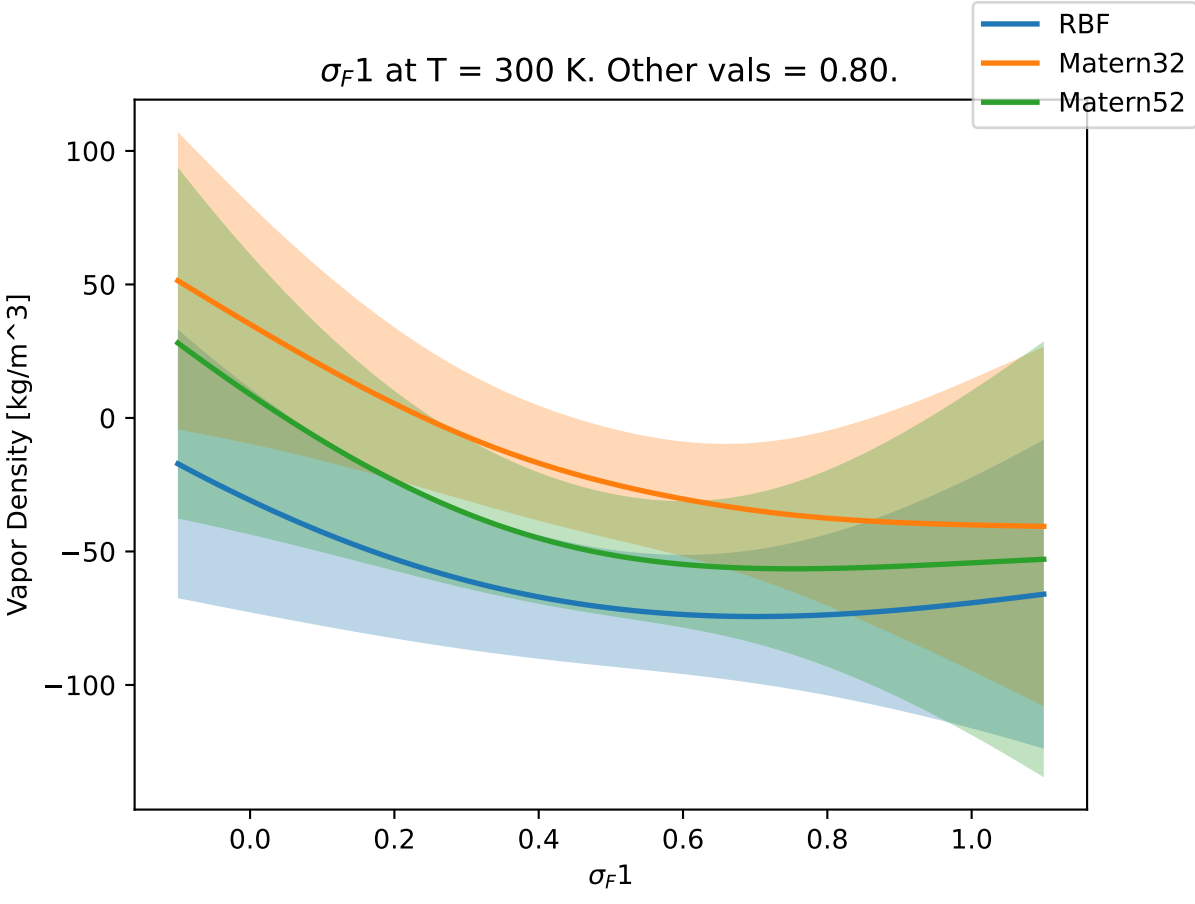

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
350
300
250
200
150
100
50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

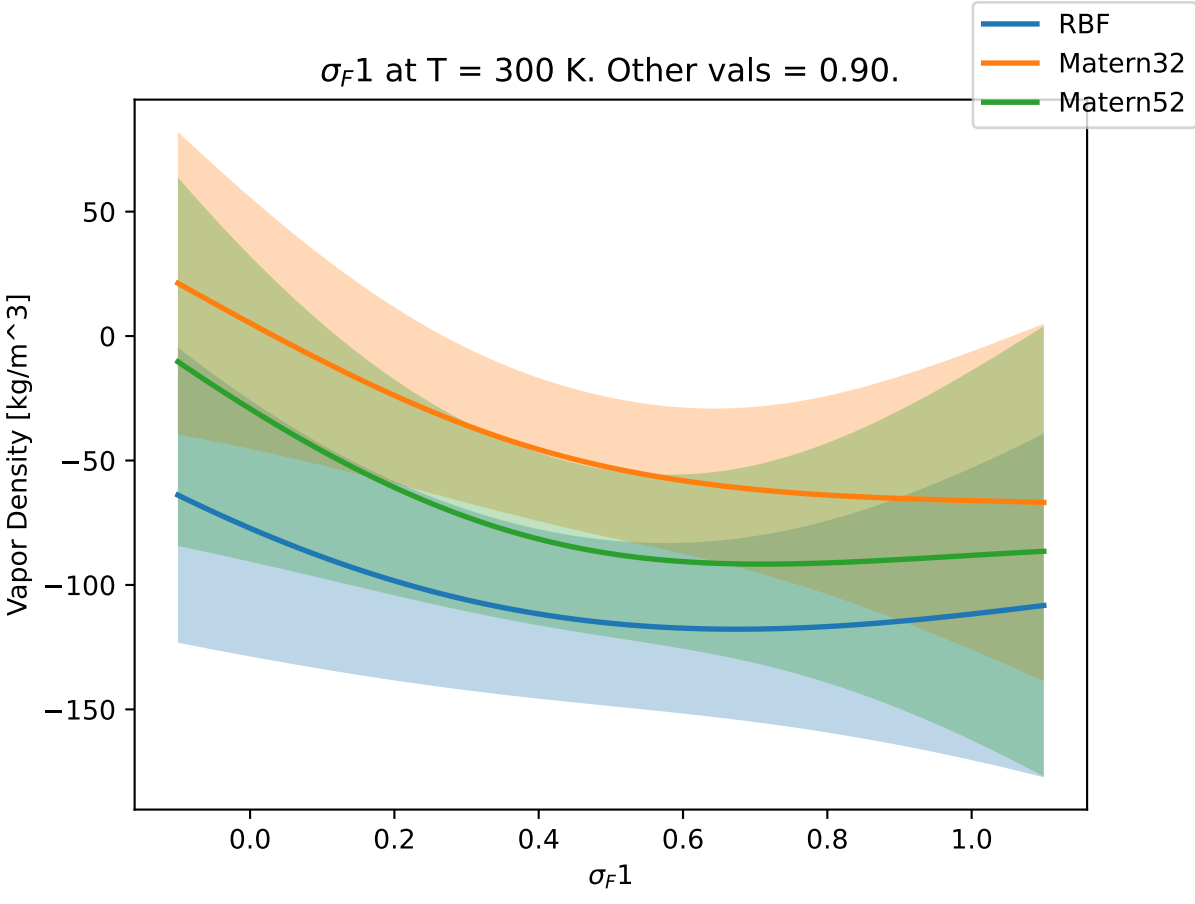

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
0
50
100
150
200
250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

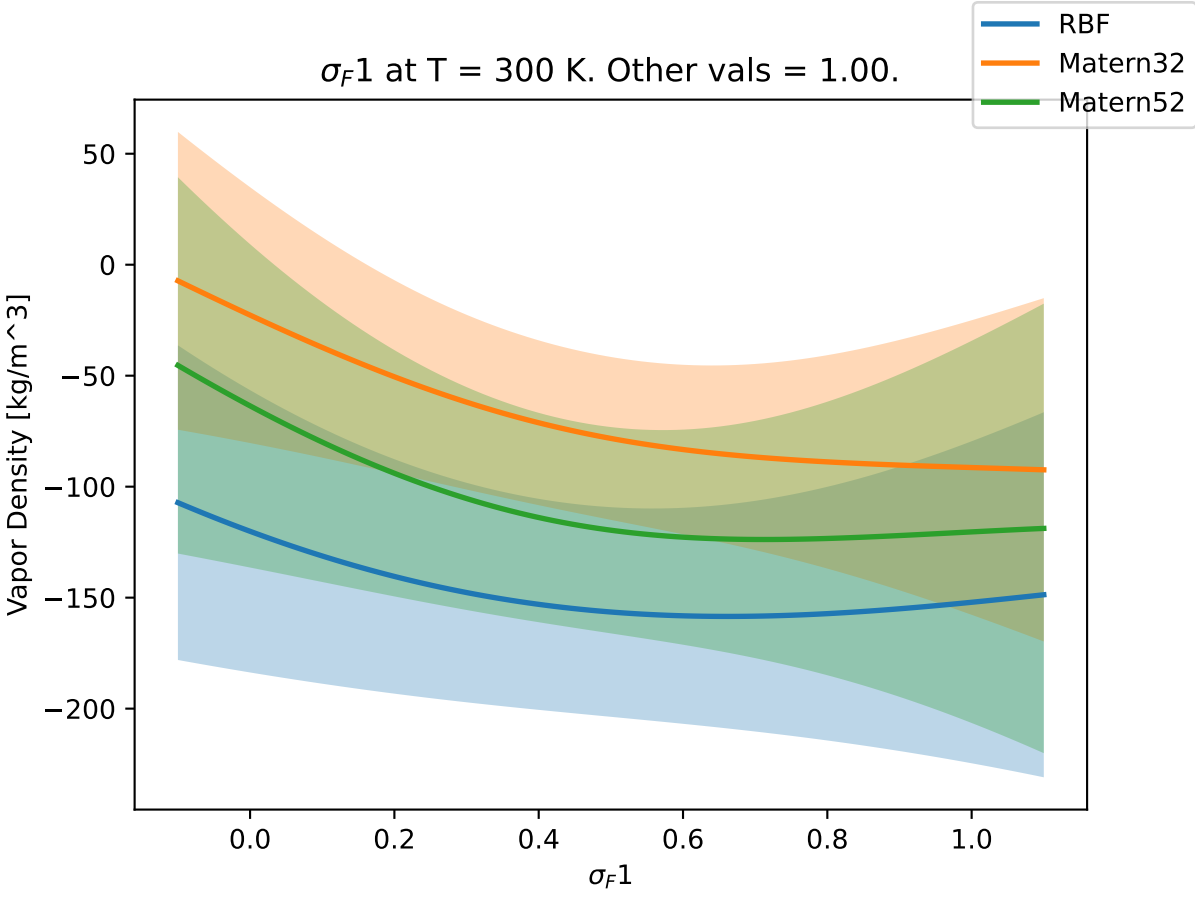

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

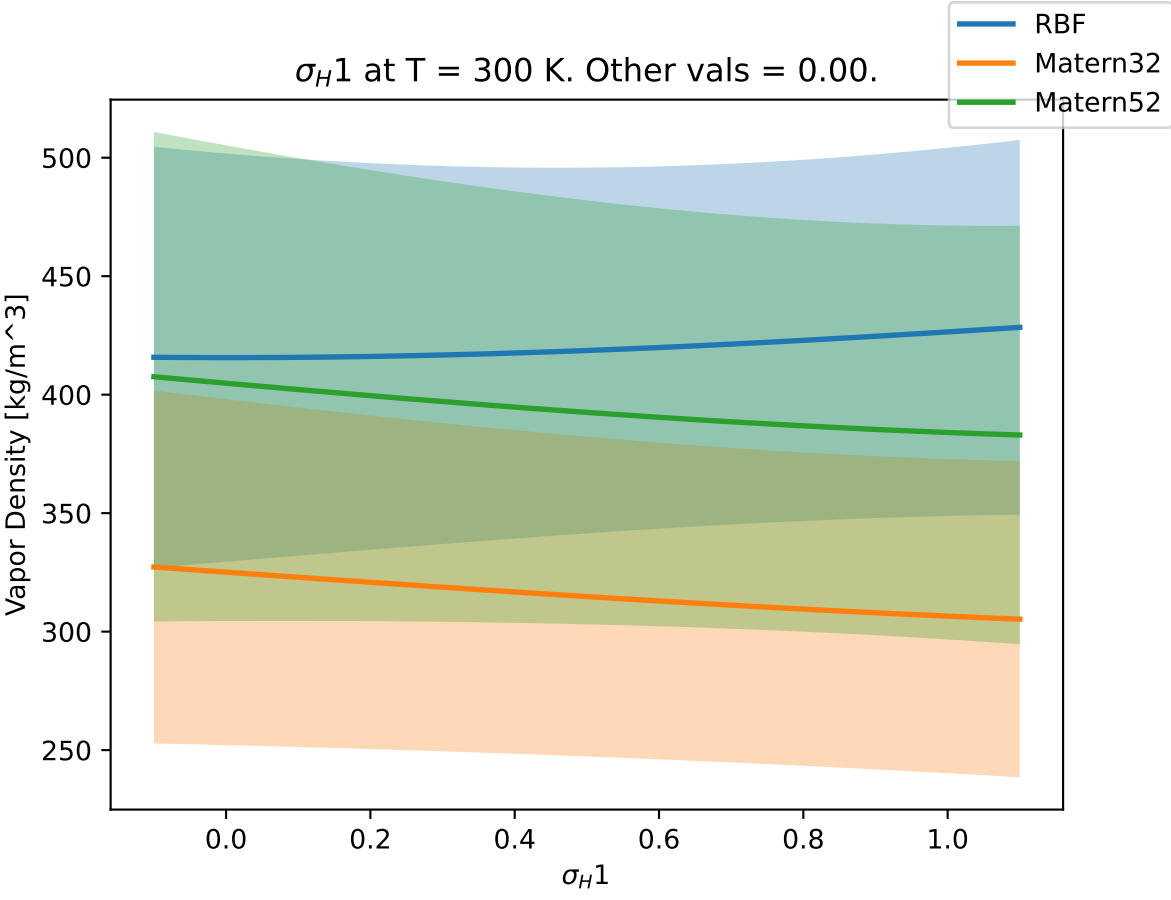

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
150
100
50
0
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

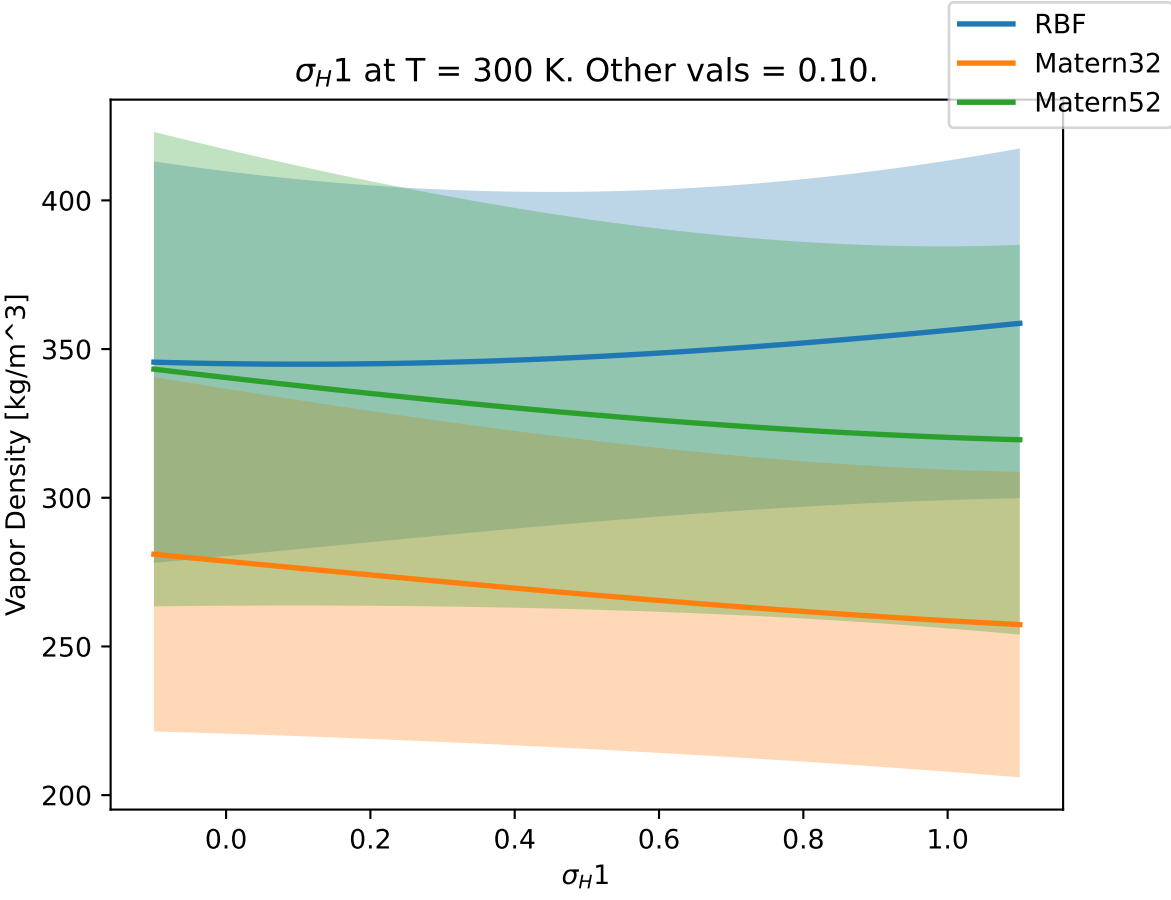

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
100
50
0
−50
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

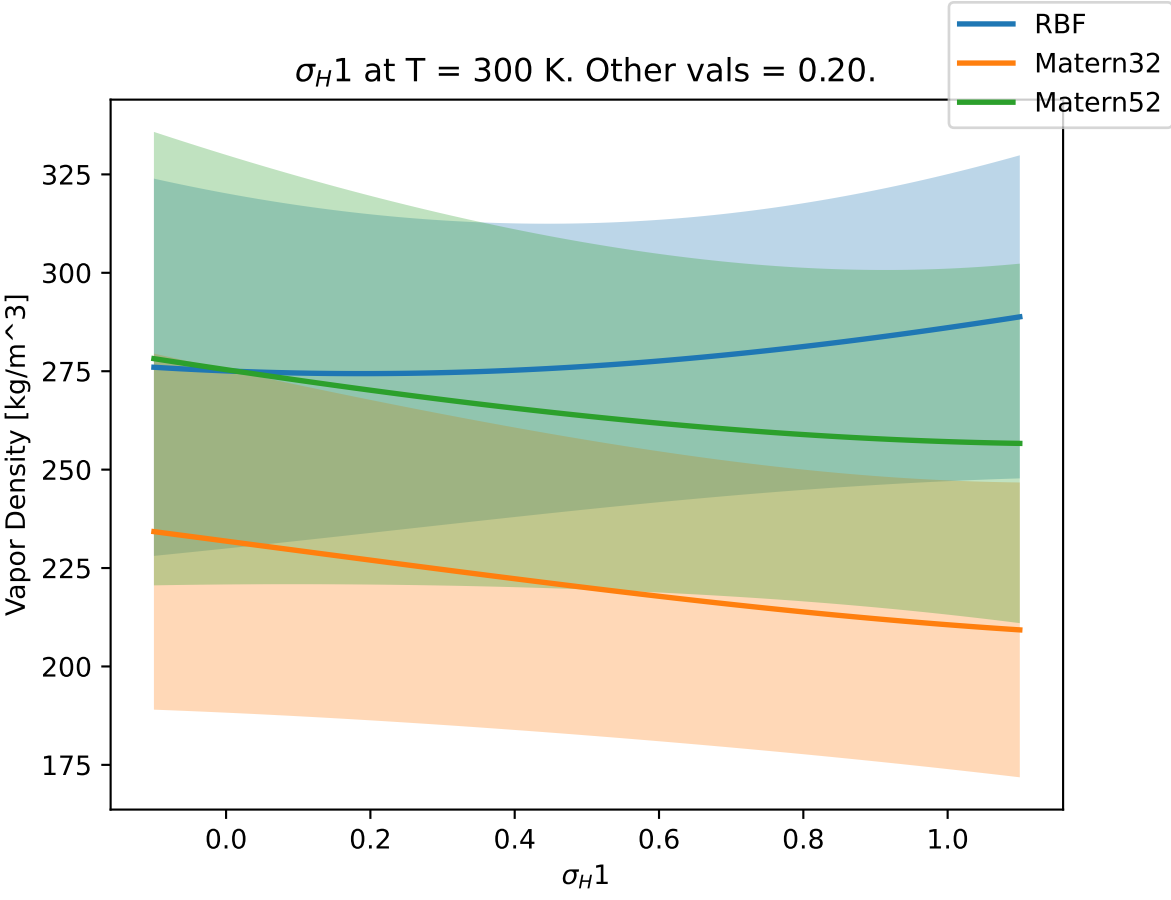

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
100
50
0
−50
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

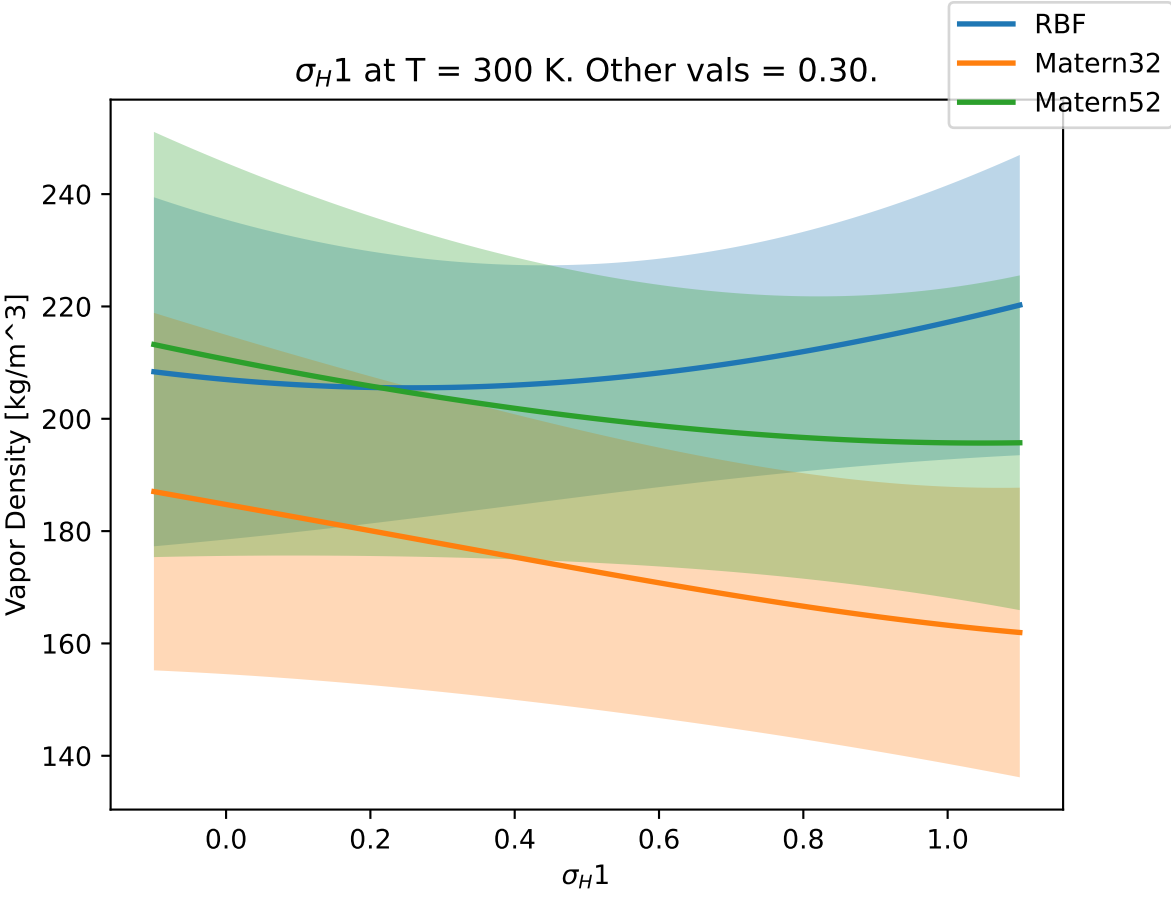

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

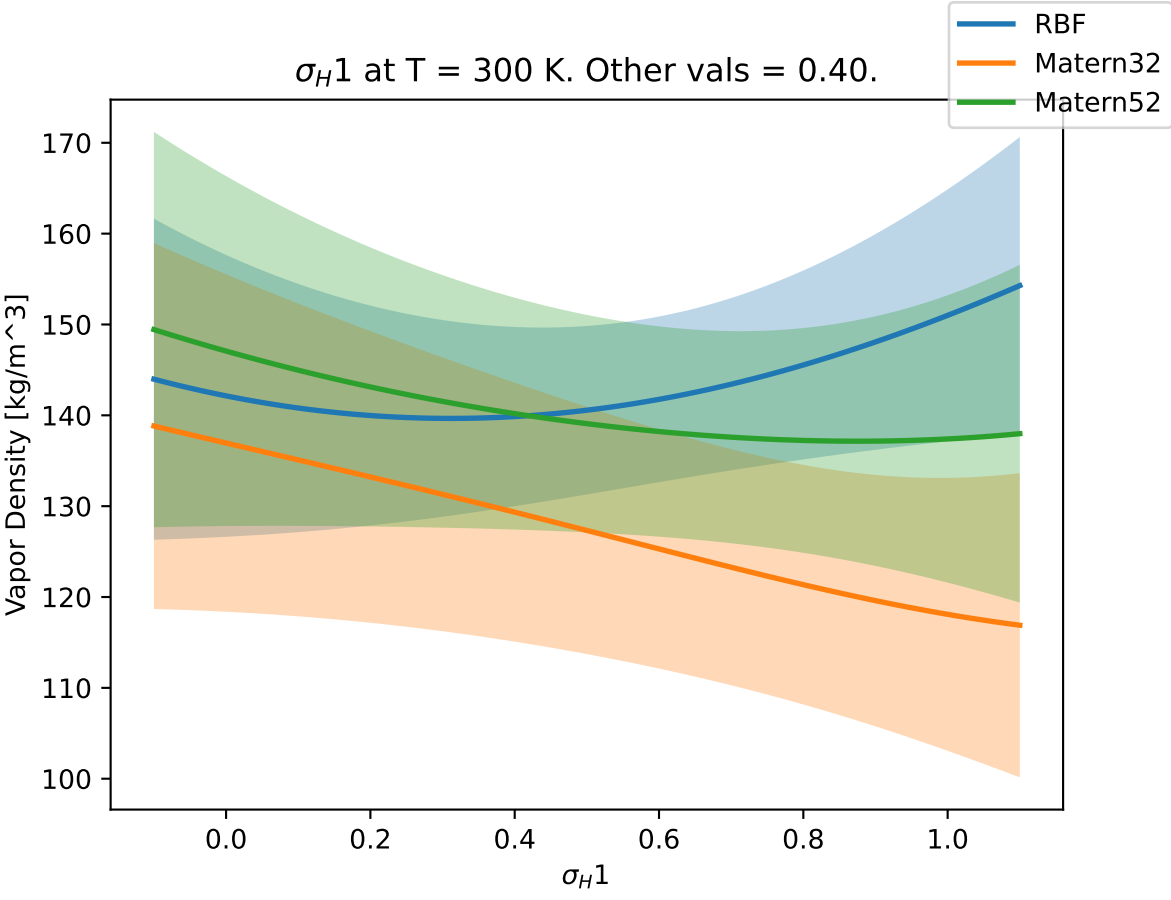

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

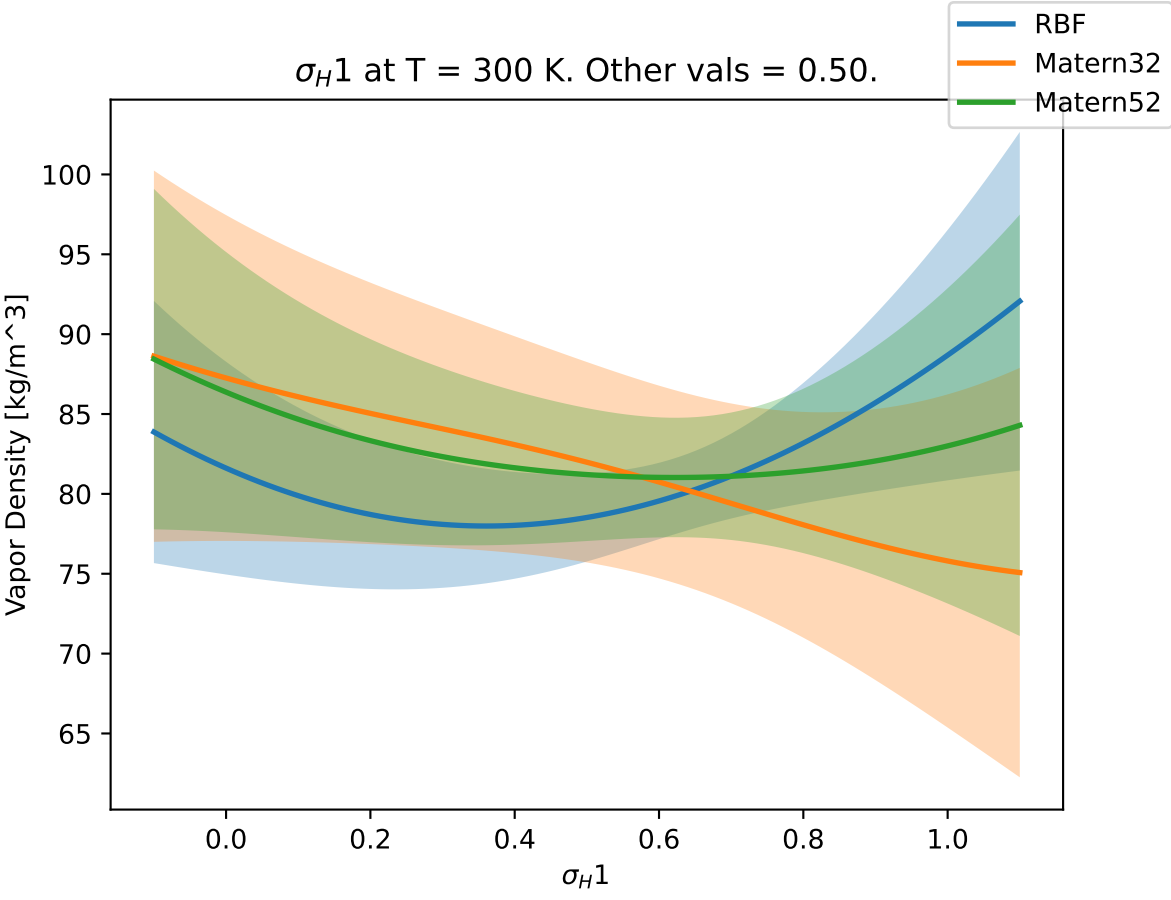

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

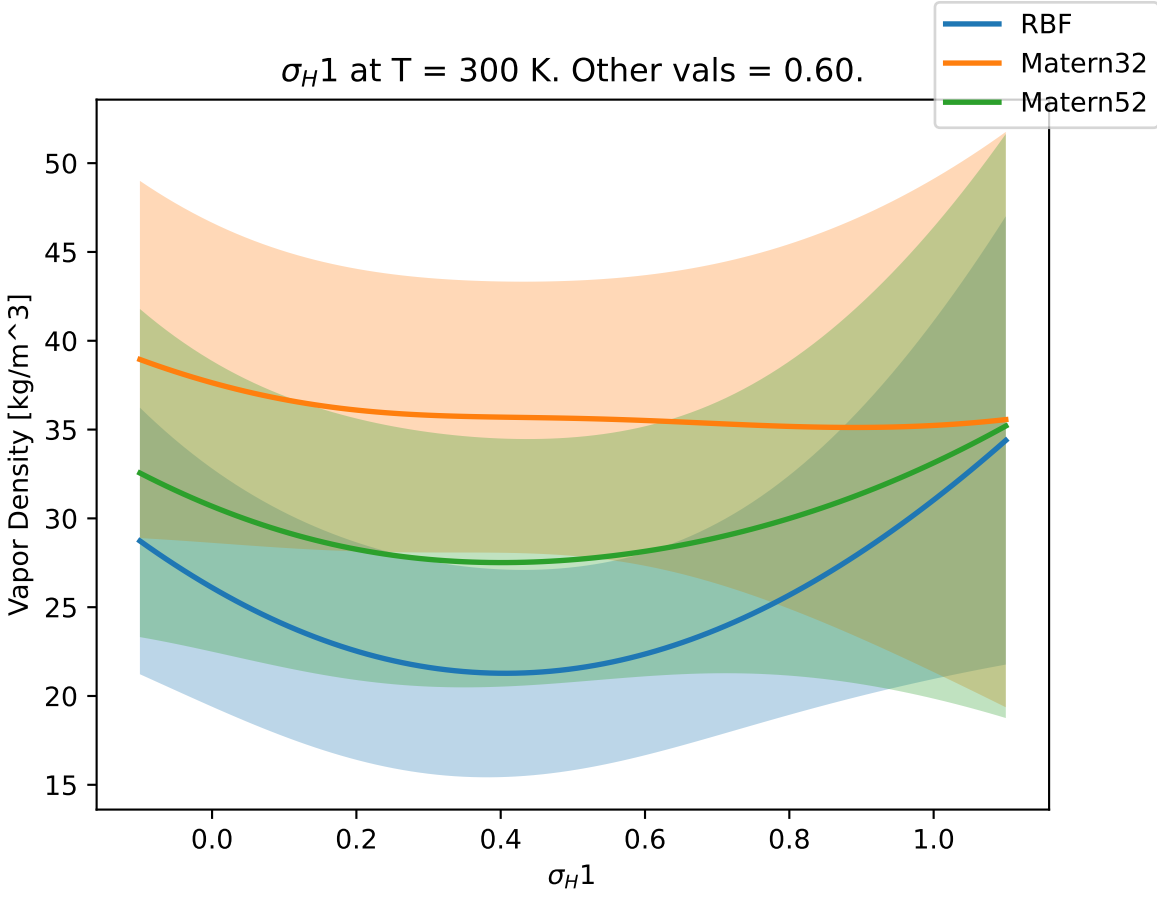

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

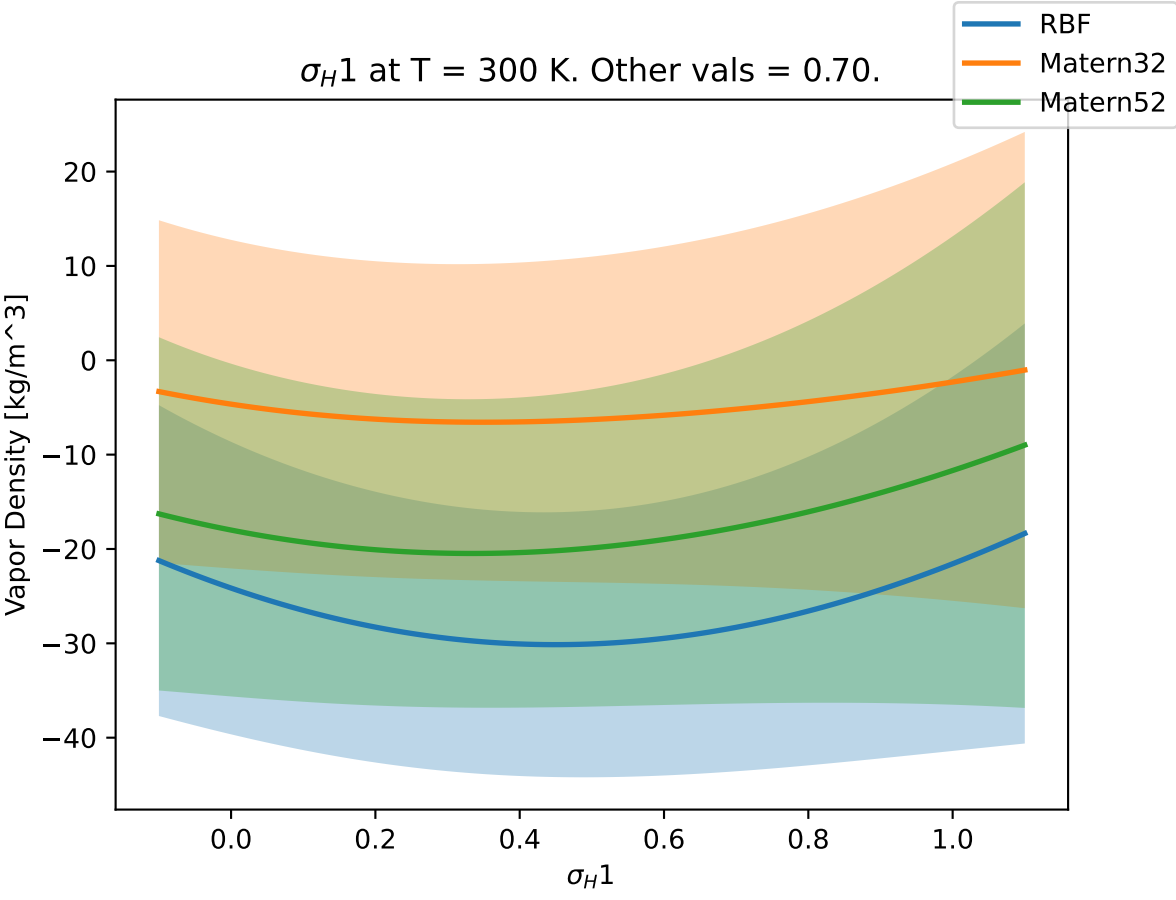

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
325
300
275
250
225
200
175
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

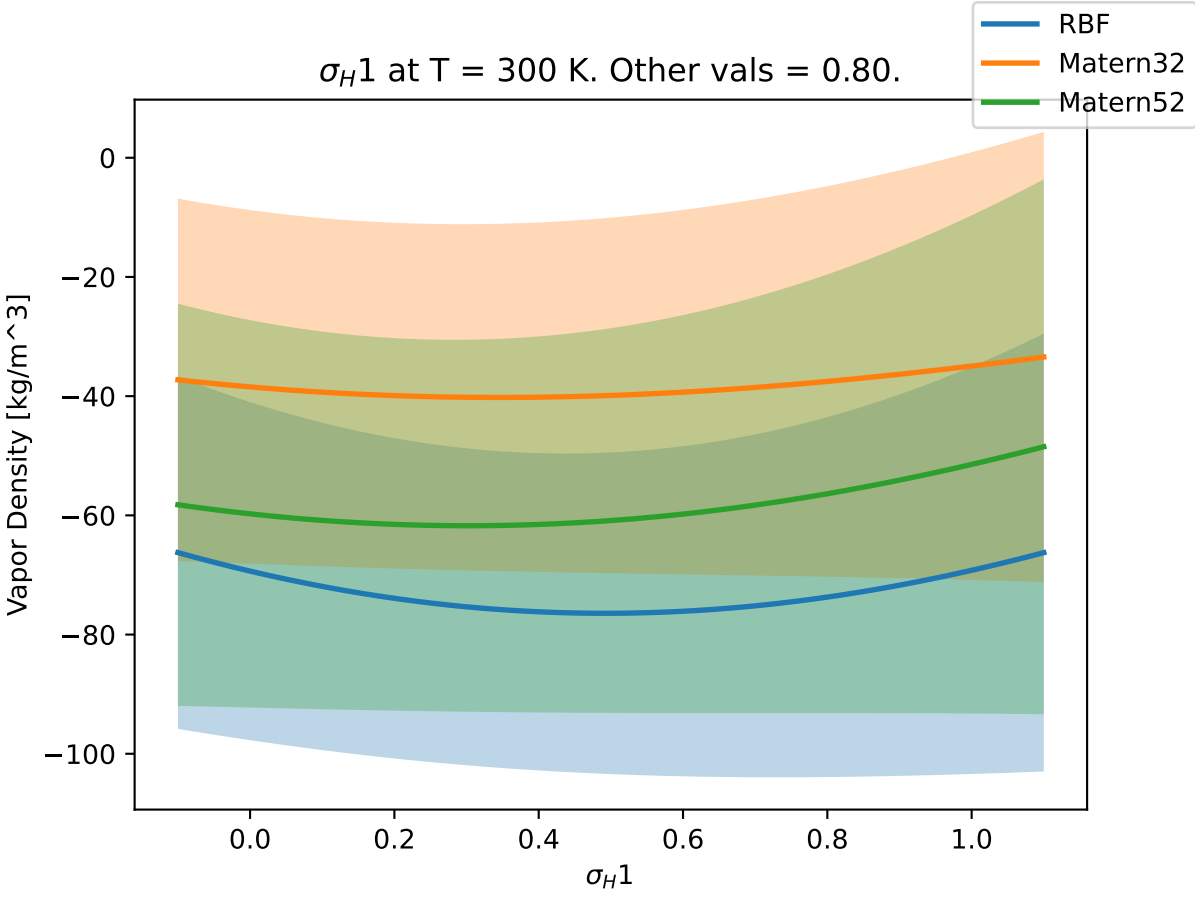

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
240
220
200
180
160
140
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

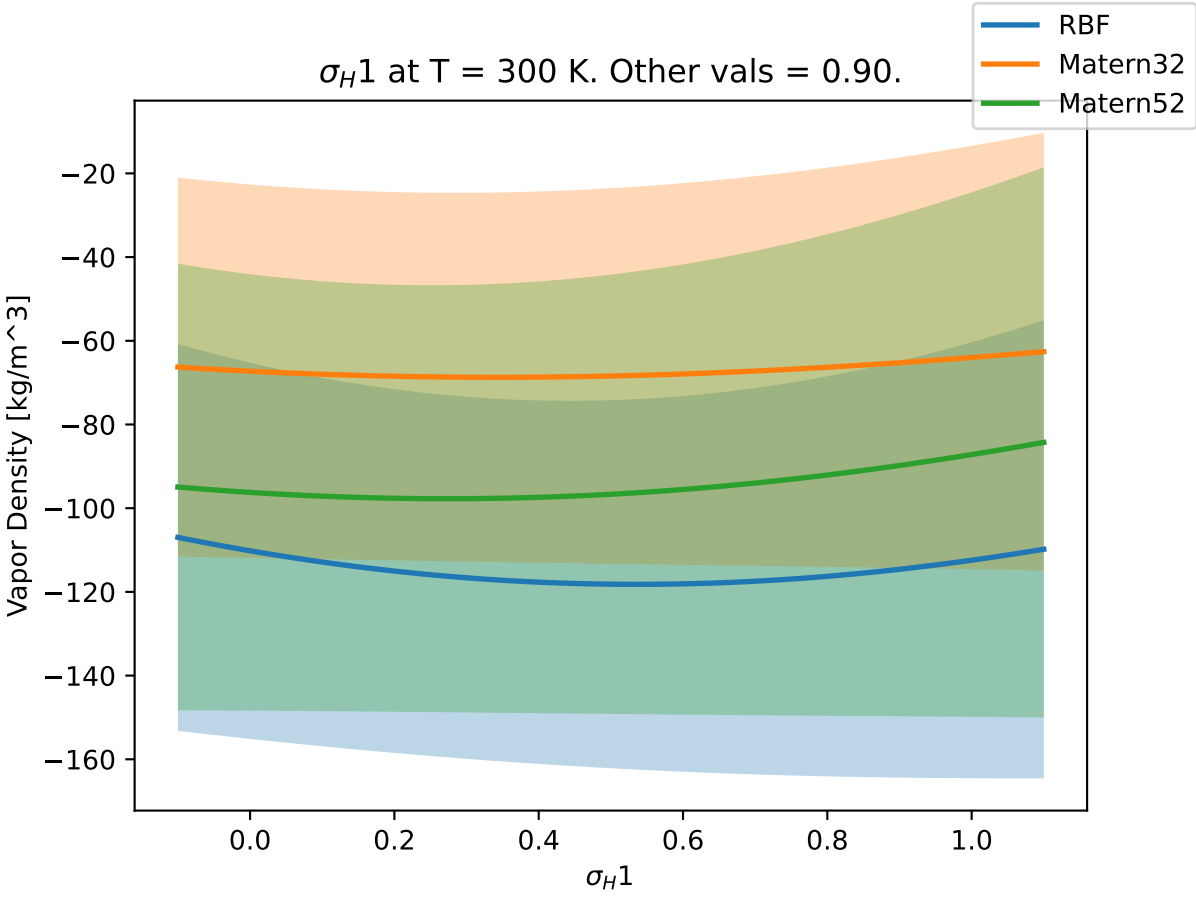

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
170
160
150
140
130
120
110
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

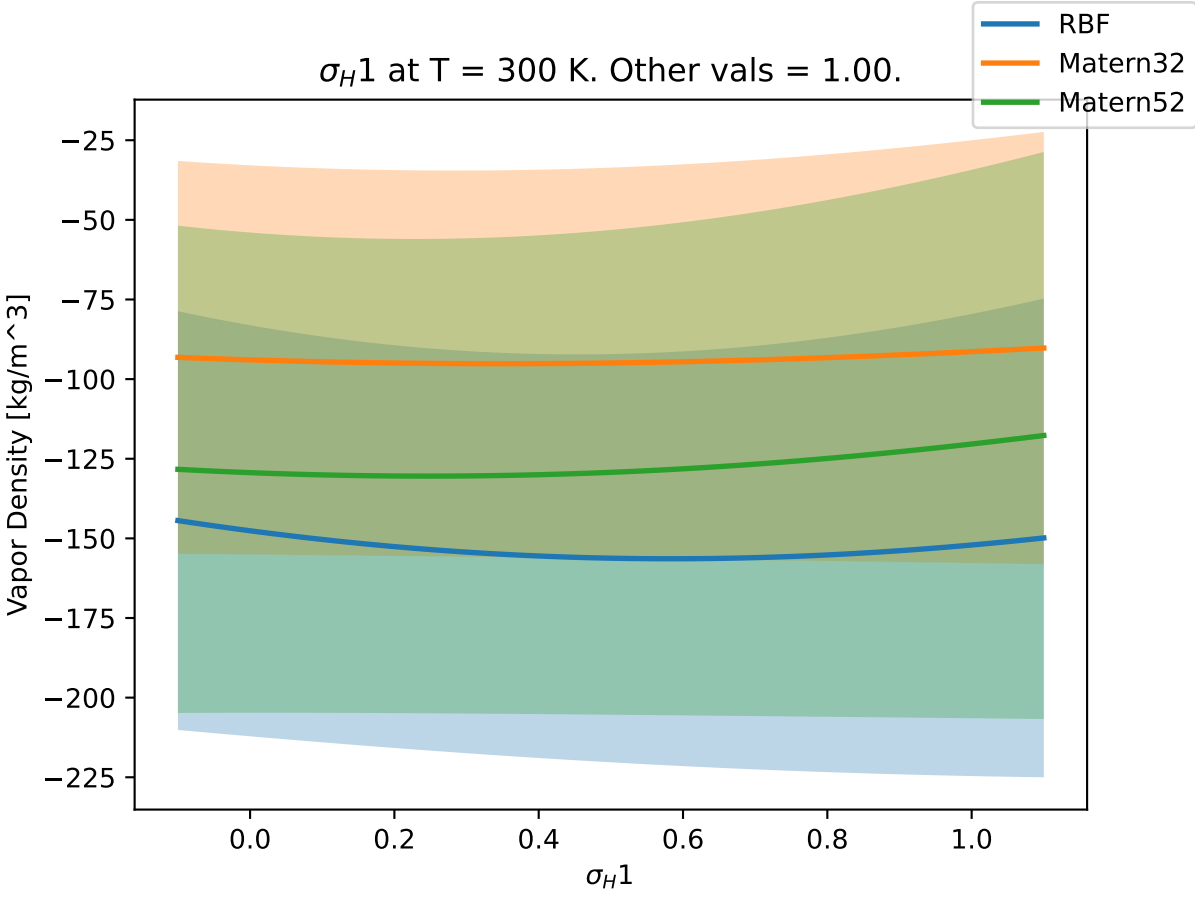

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
100
95
90
85
80
75
70
65
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

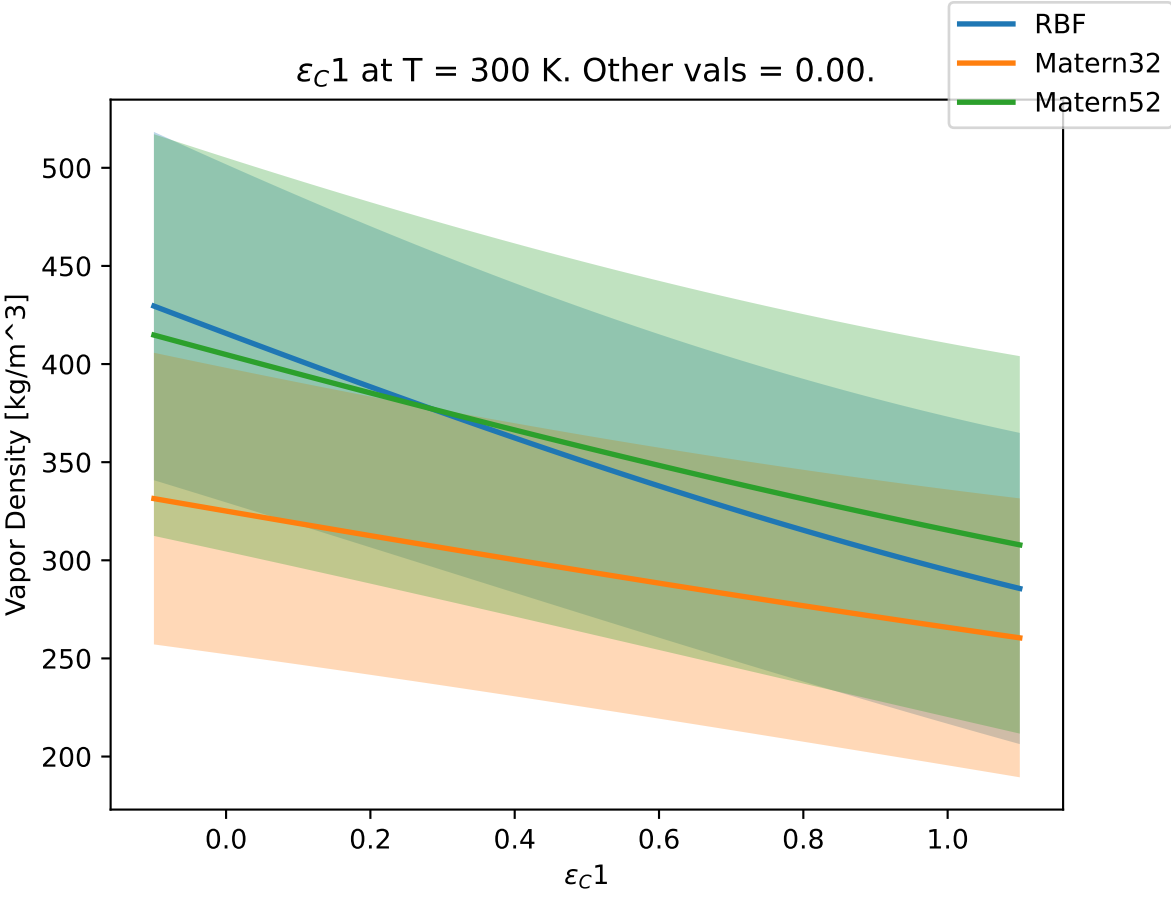

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
50
45
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

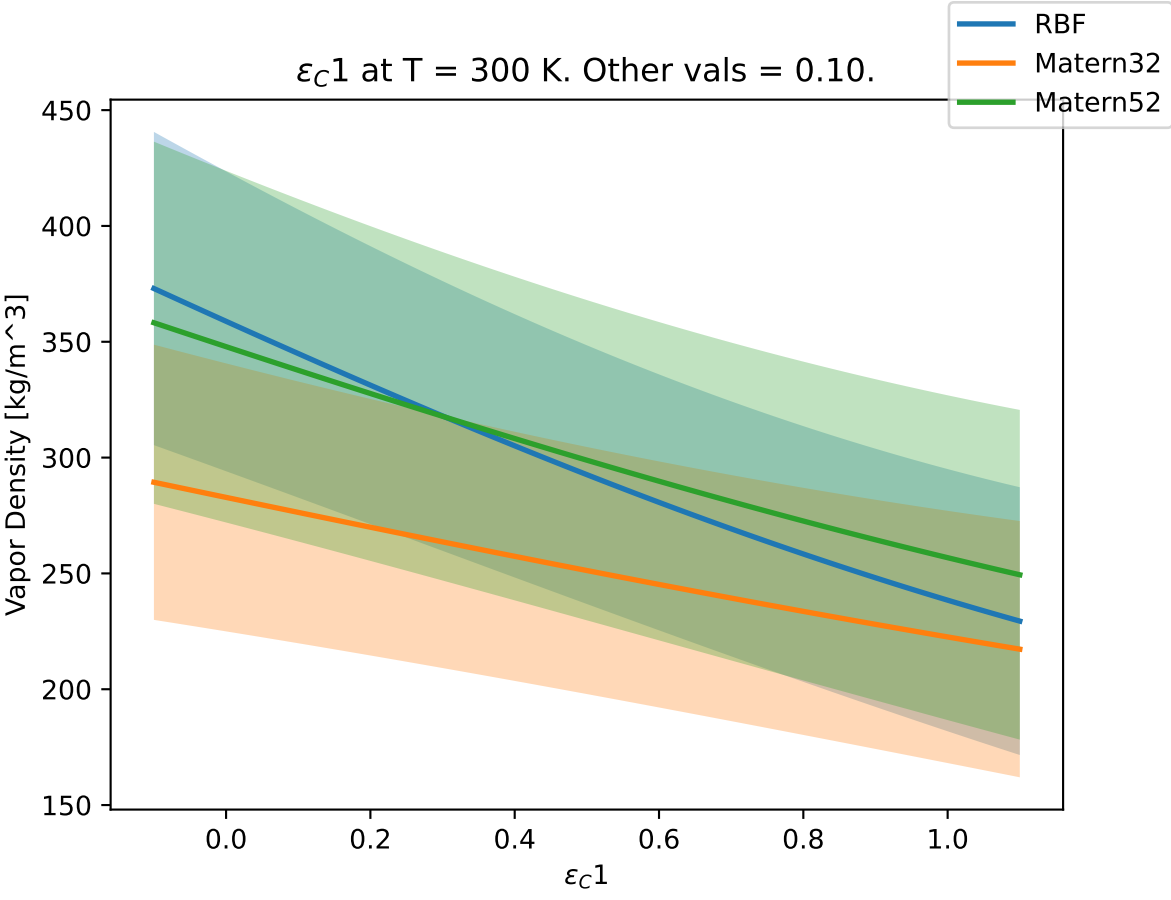

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
20
10
0
−10
−20
−30
−40
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

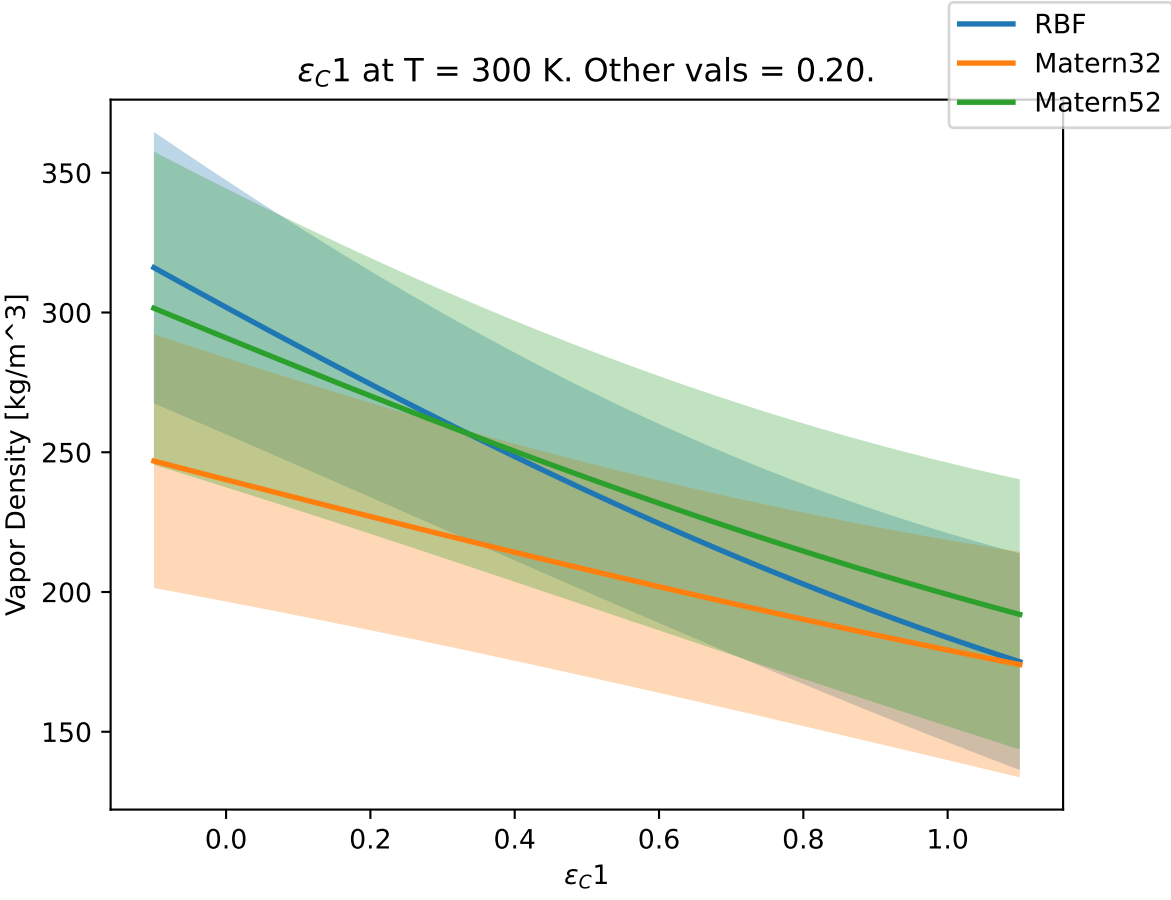

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
0
−20
−40
−60
−80
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

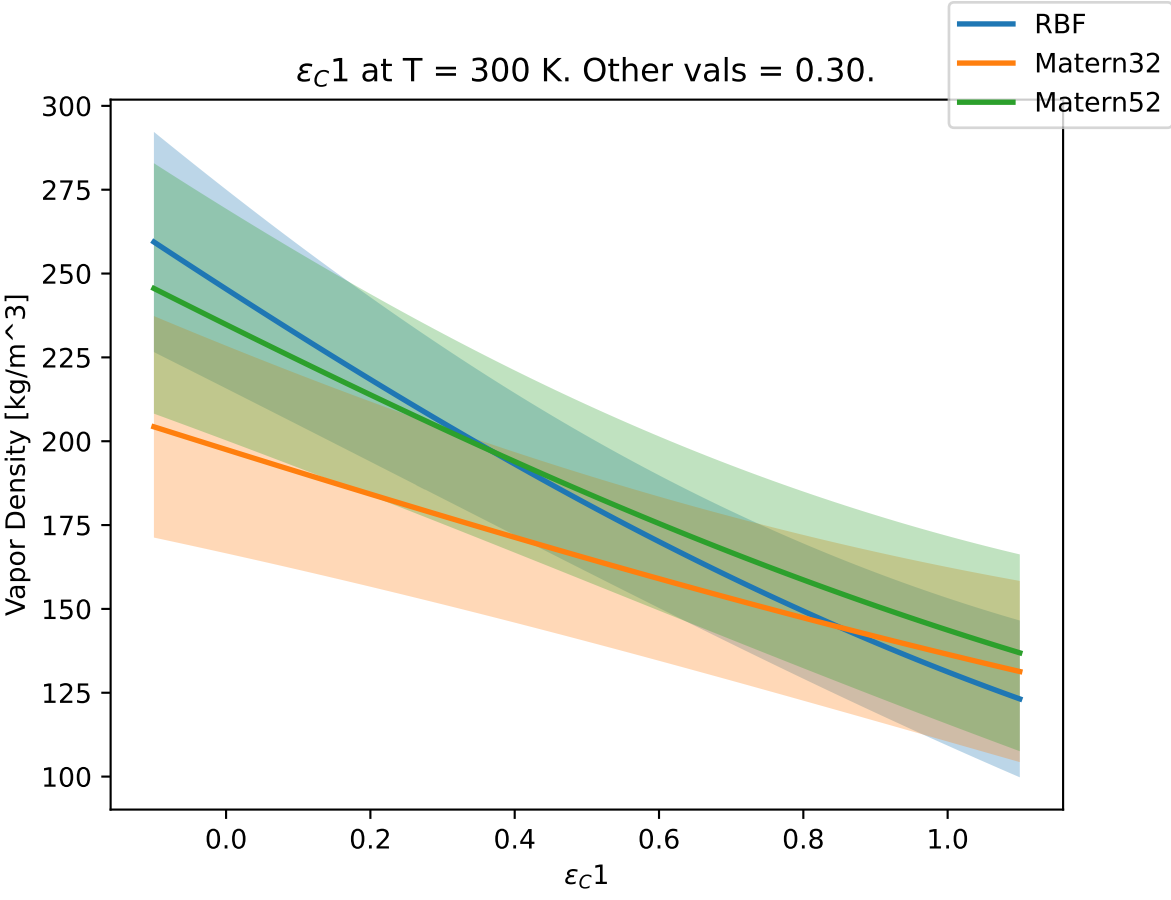

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
−20
−40
−60
−80
−100
−120
−140
−160
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

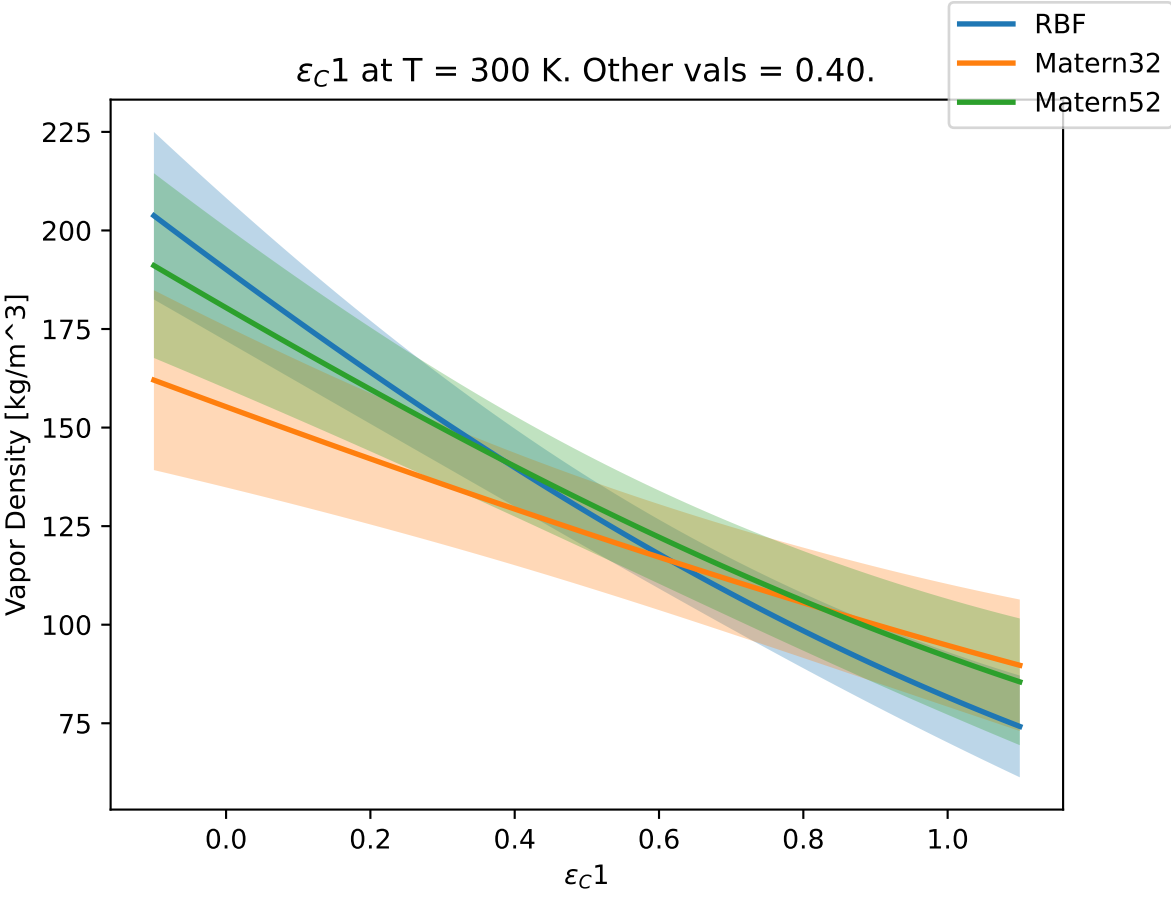

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
−25
−50
−75
−100
−125
−150
−175
−200
−225
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

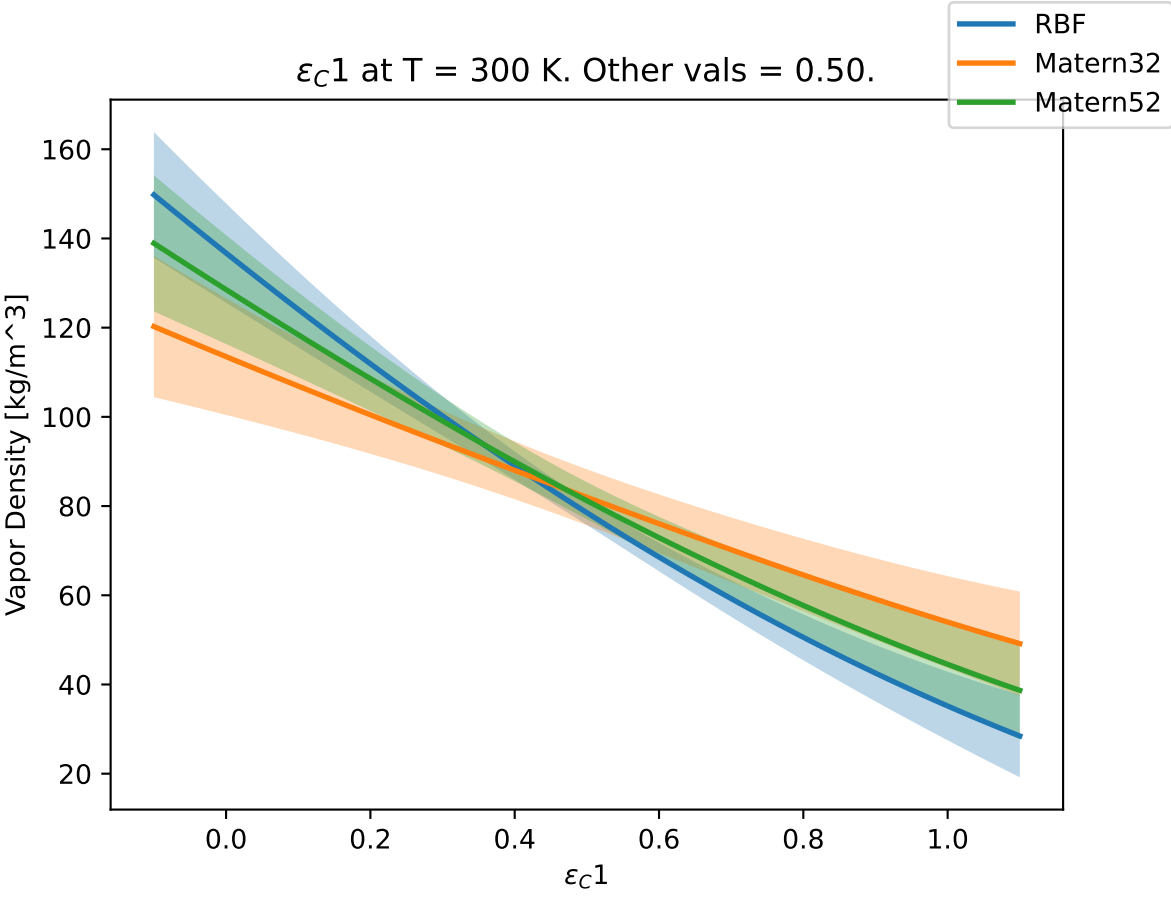

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

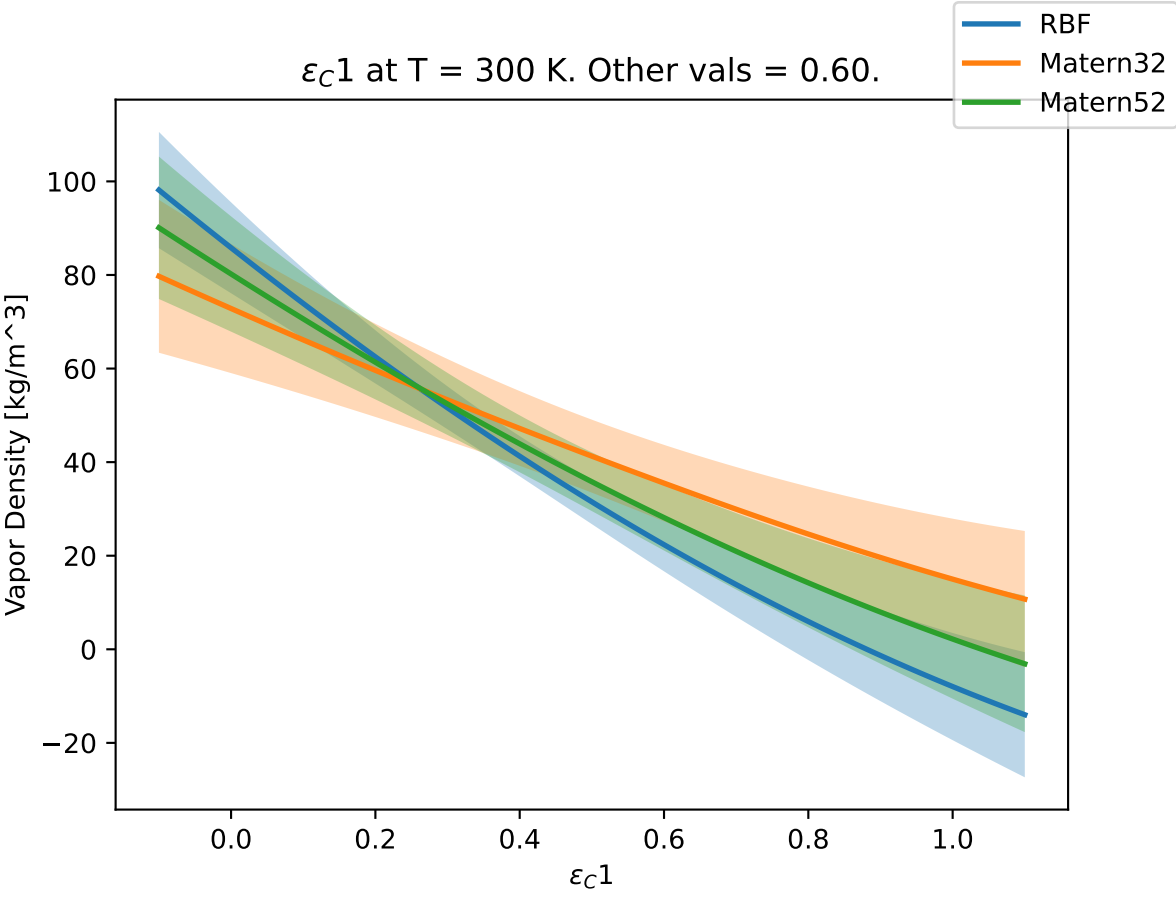

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
450
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

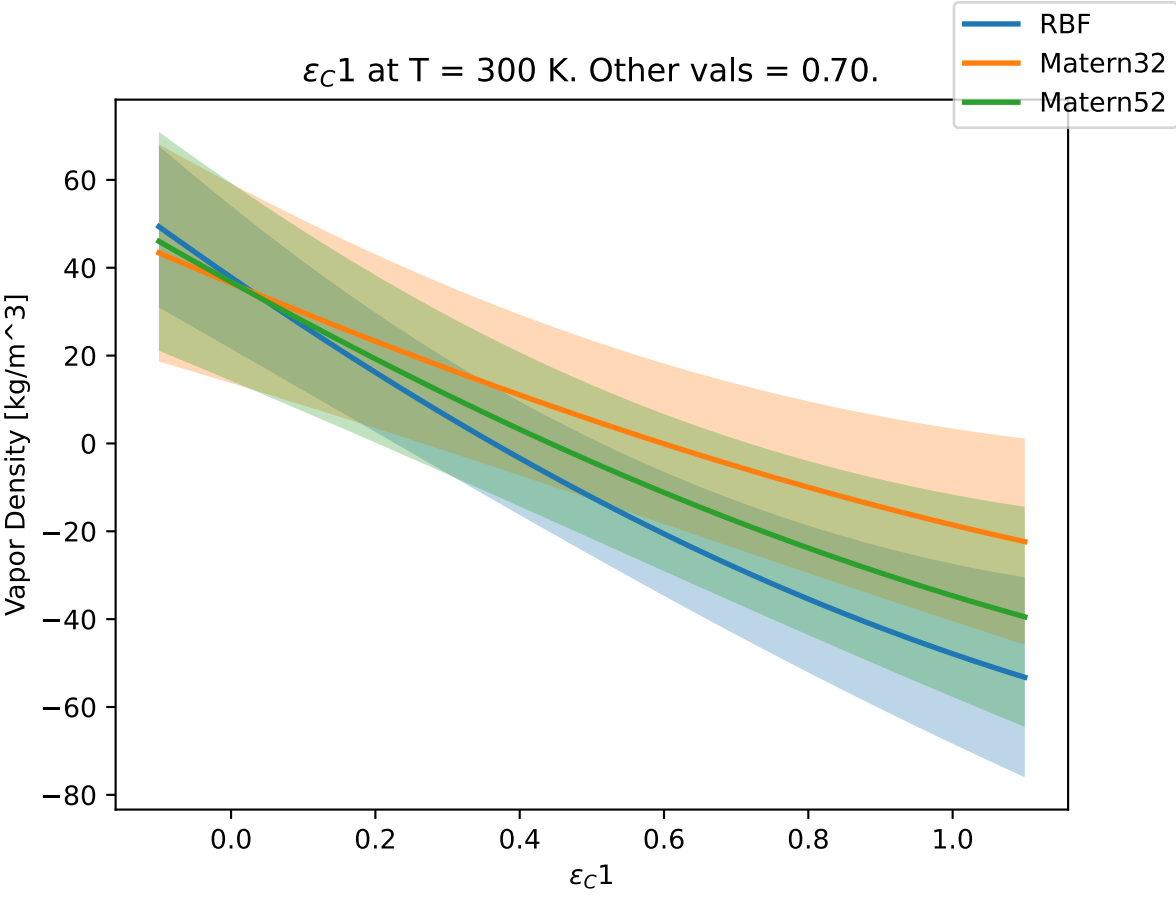

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

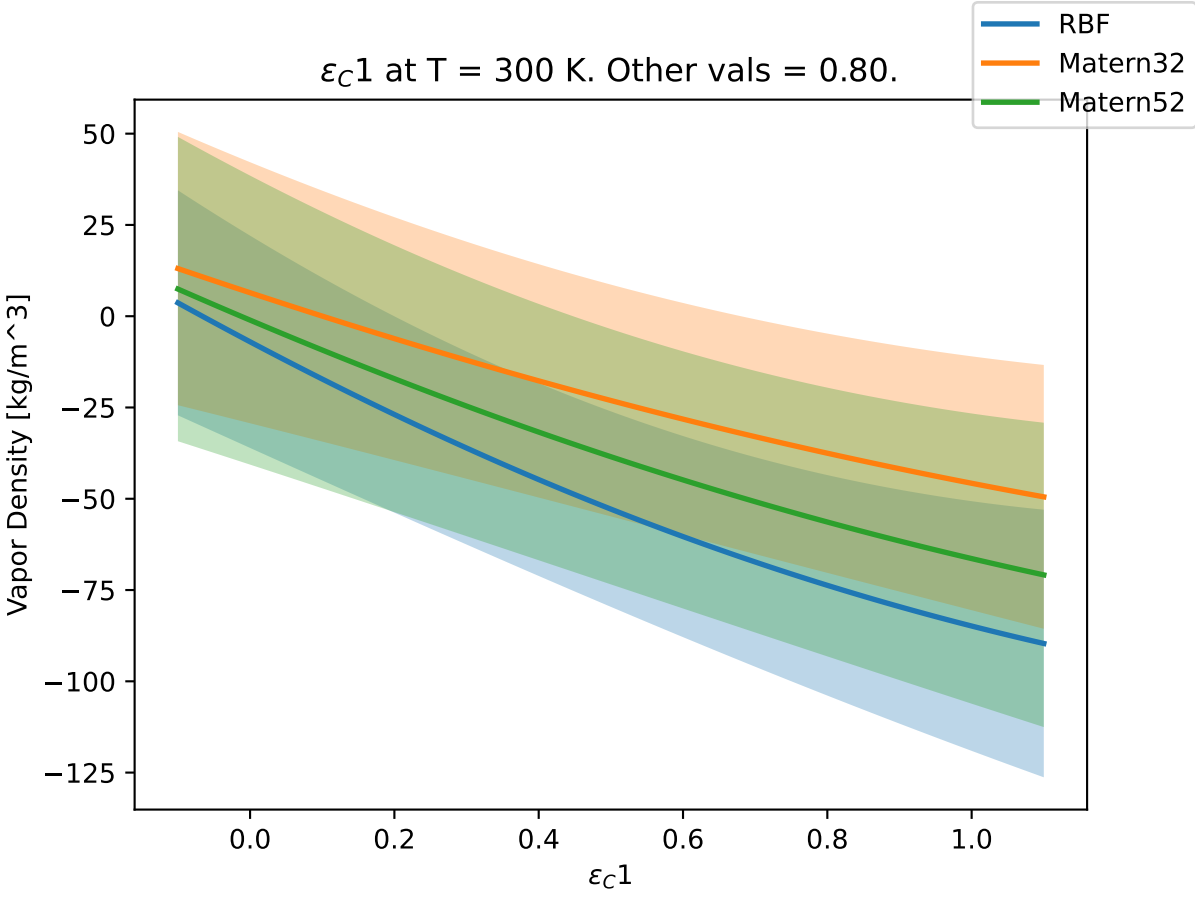

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
300
275
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

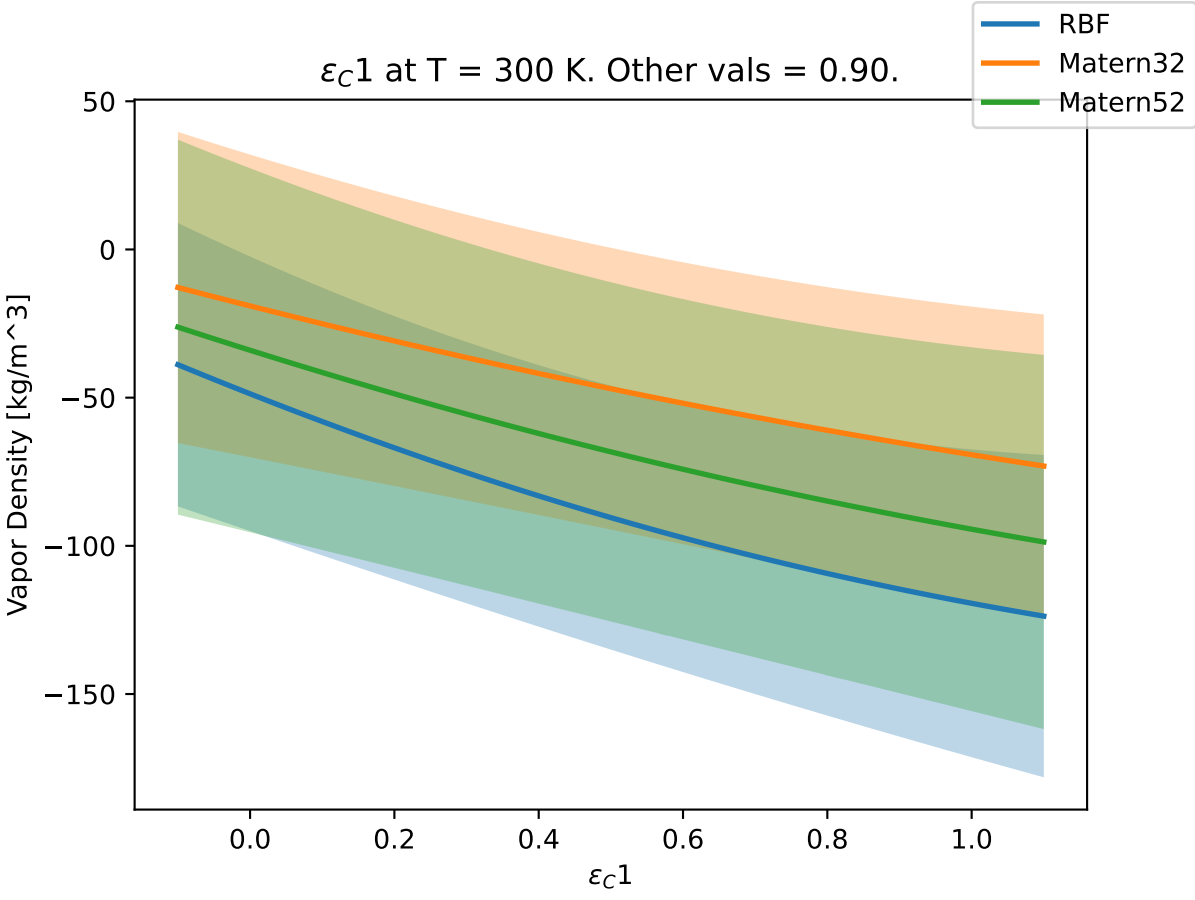

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
225
200
175
150
125
100
75
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

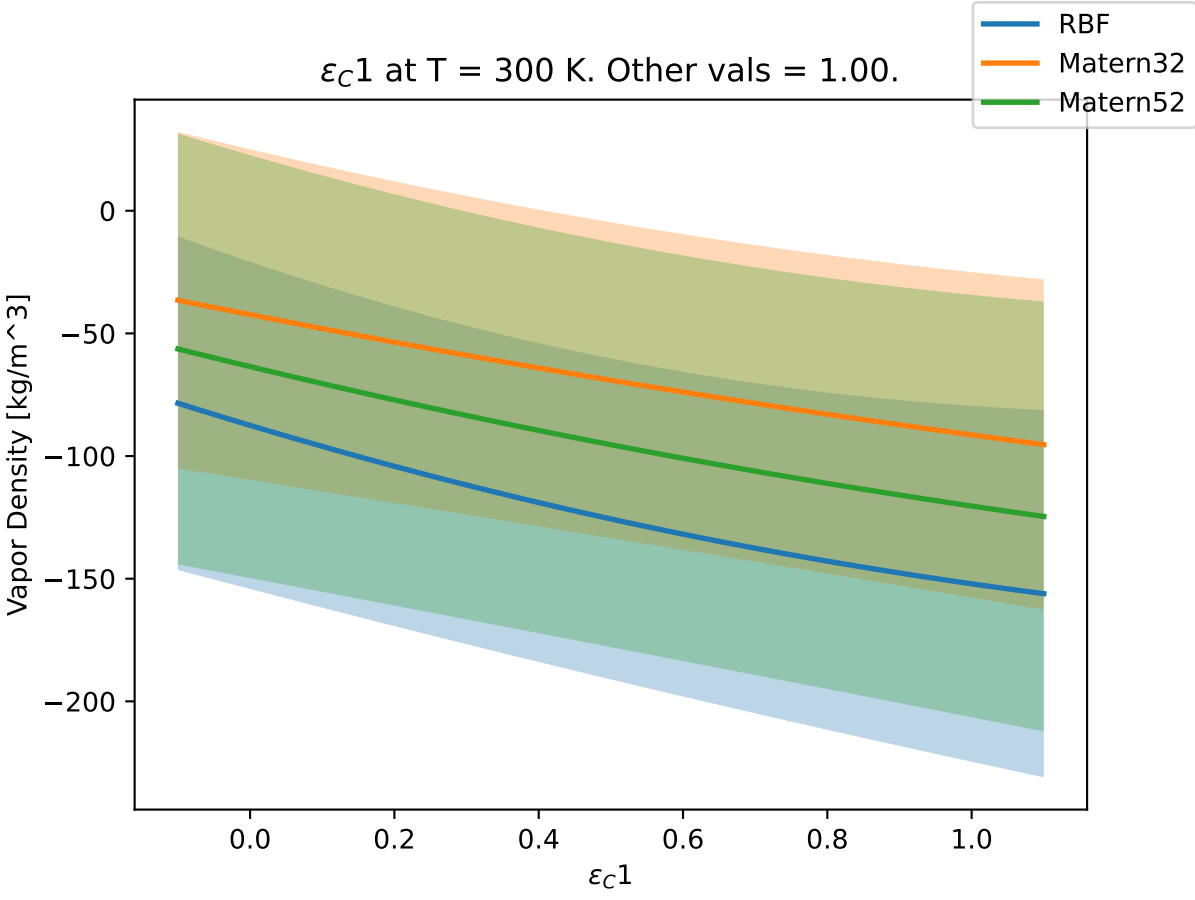

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
160
140
120
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

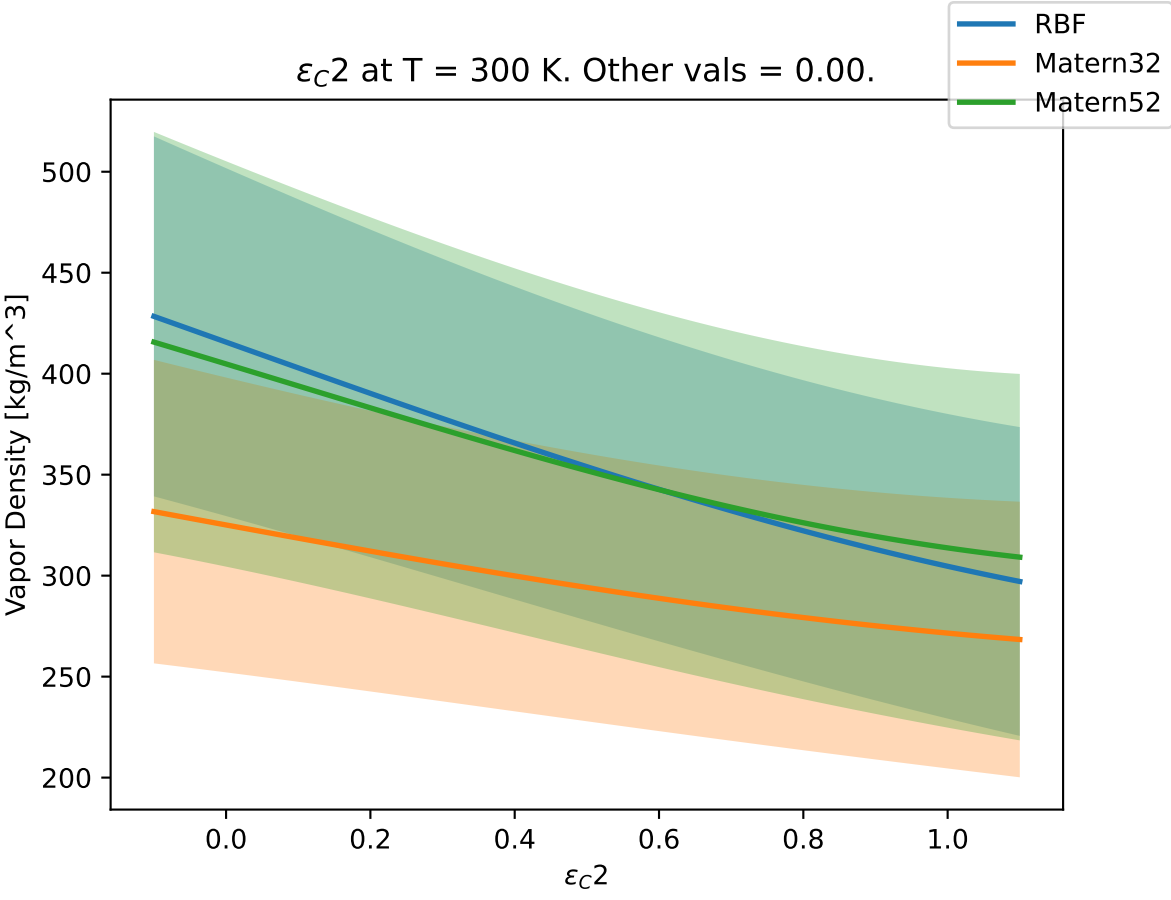

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
100
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

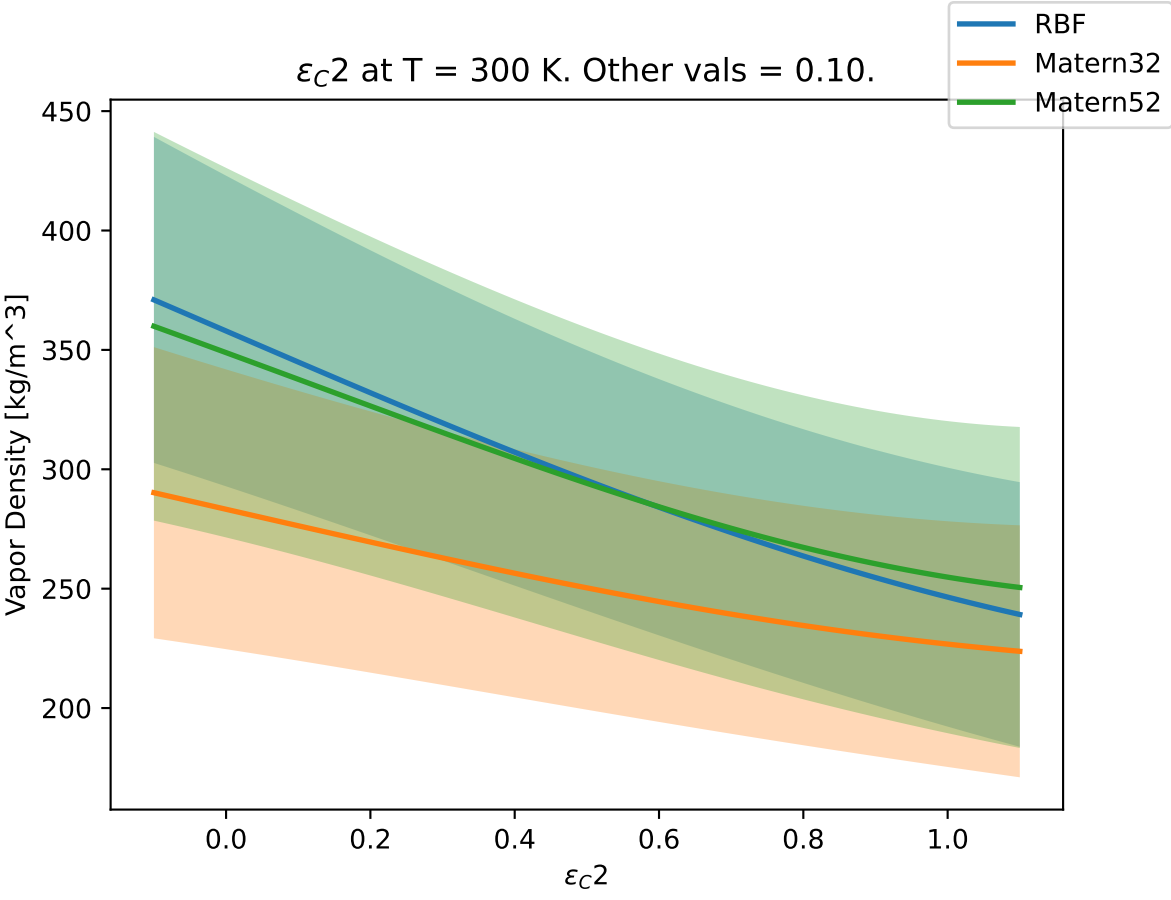

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
60
40
20
0
−20
−40
−60
−80
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

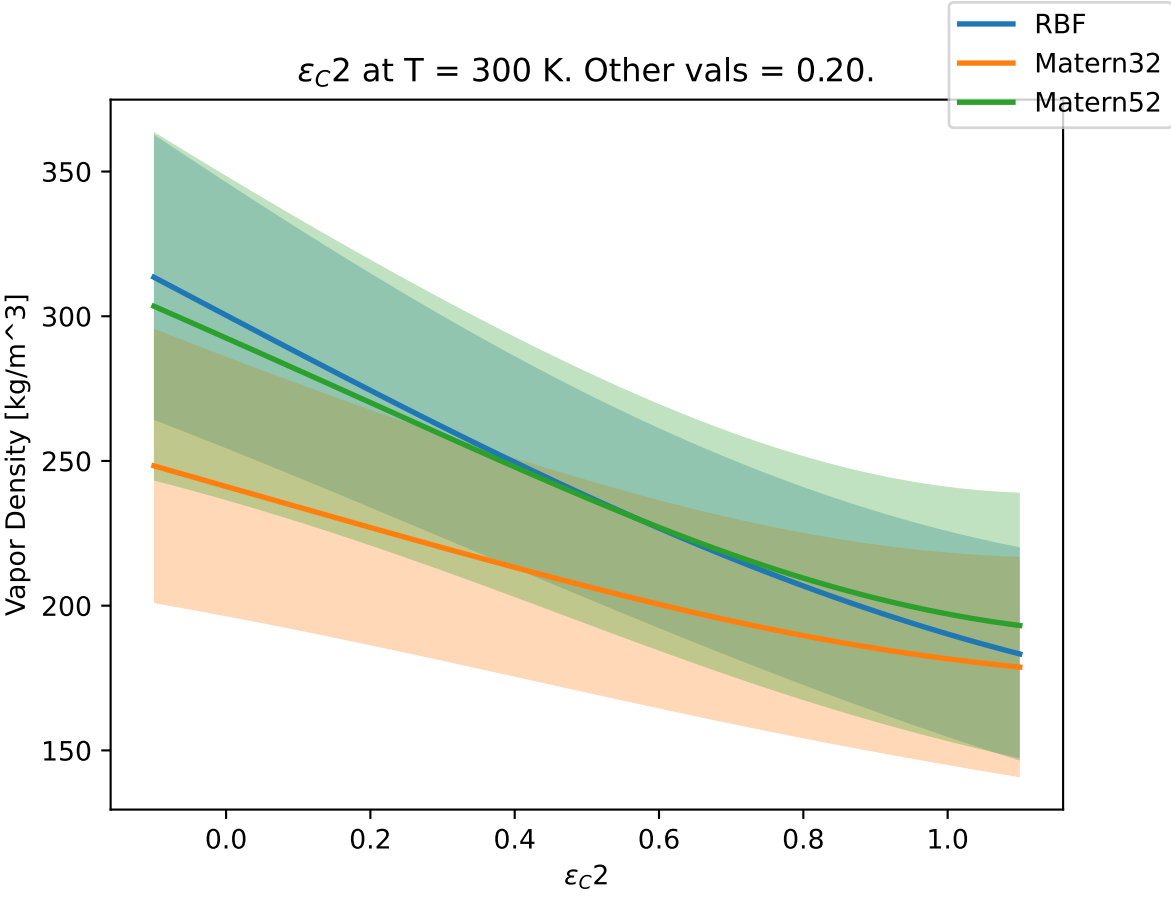

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
50
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

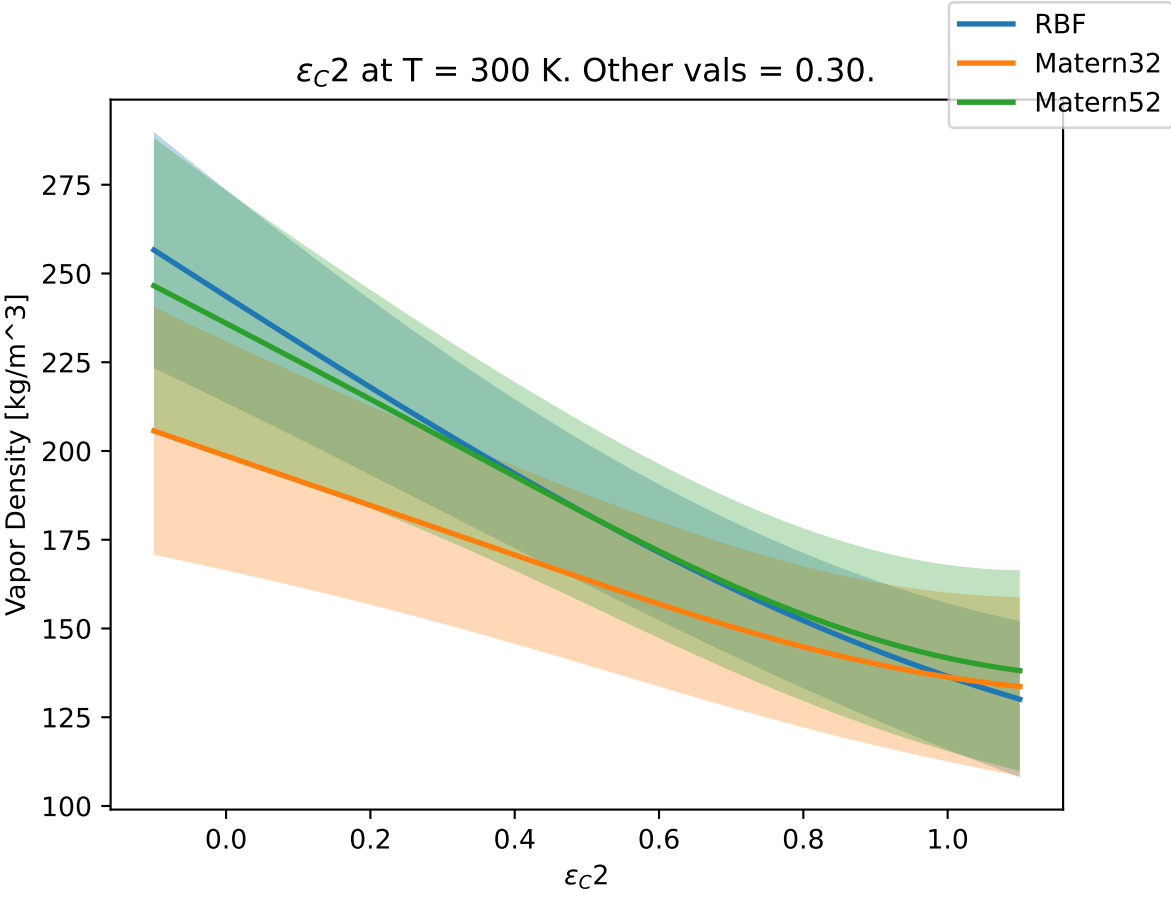

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.90.
50
0
−50
−100
−150
Vapor Density [kg/m^3]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

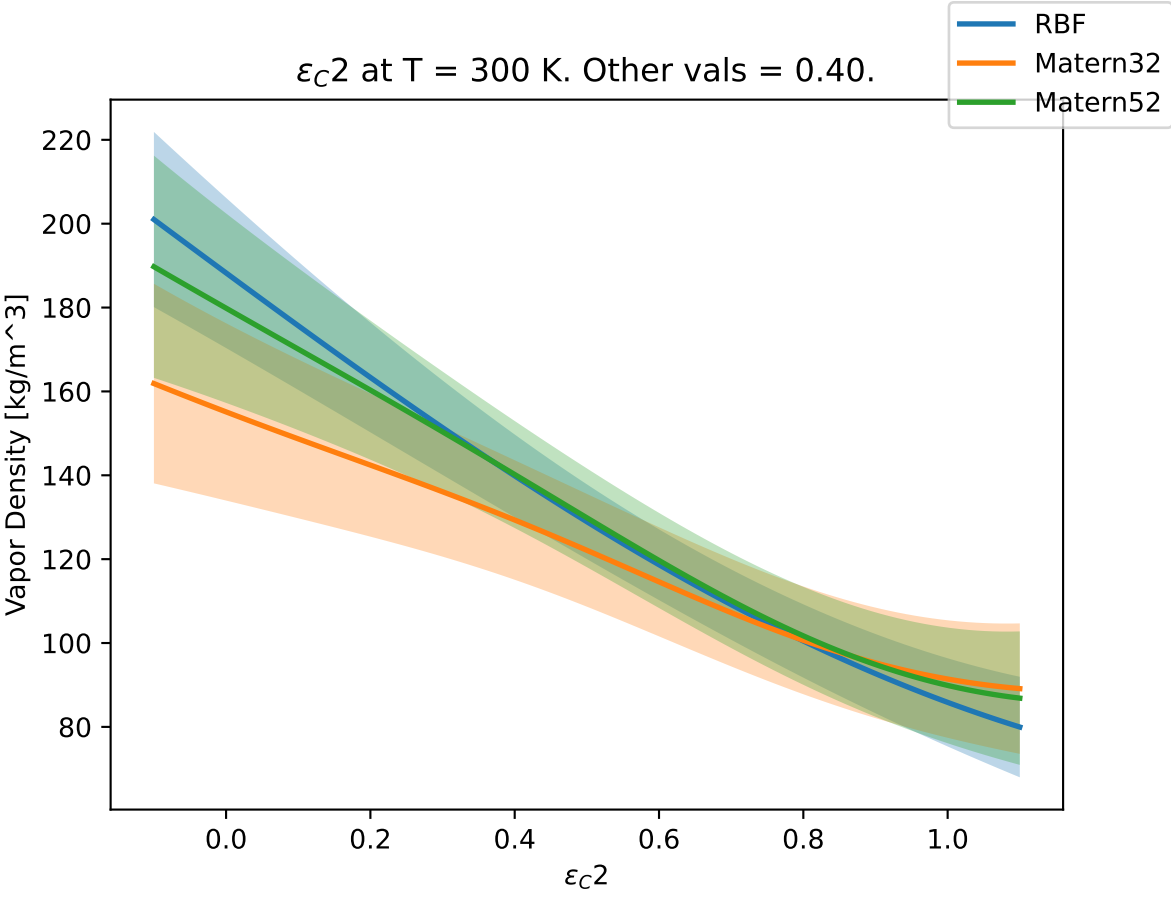

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

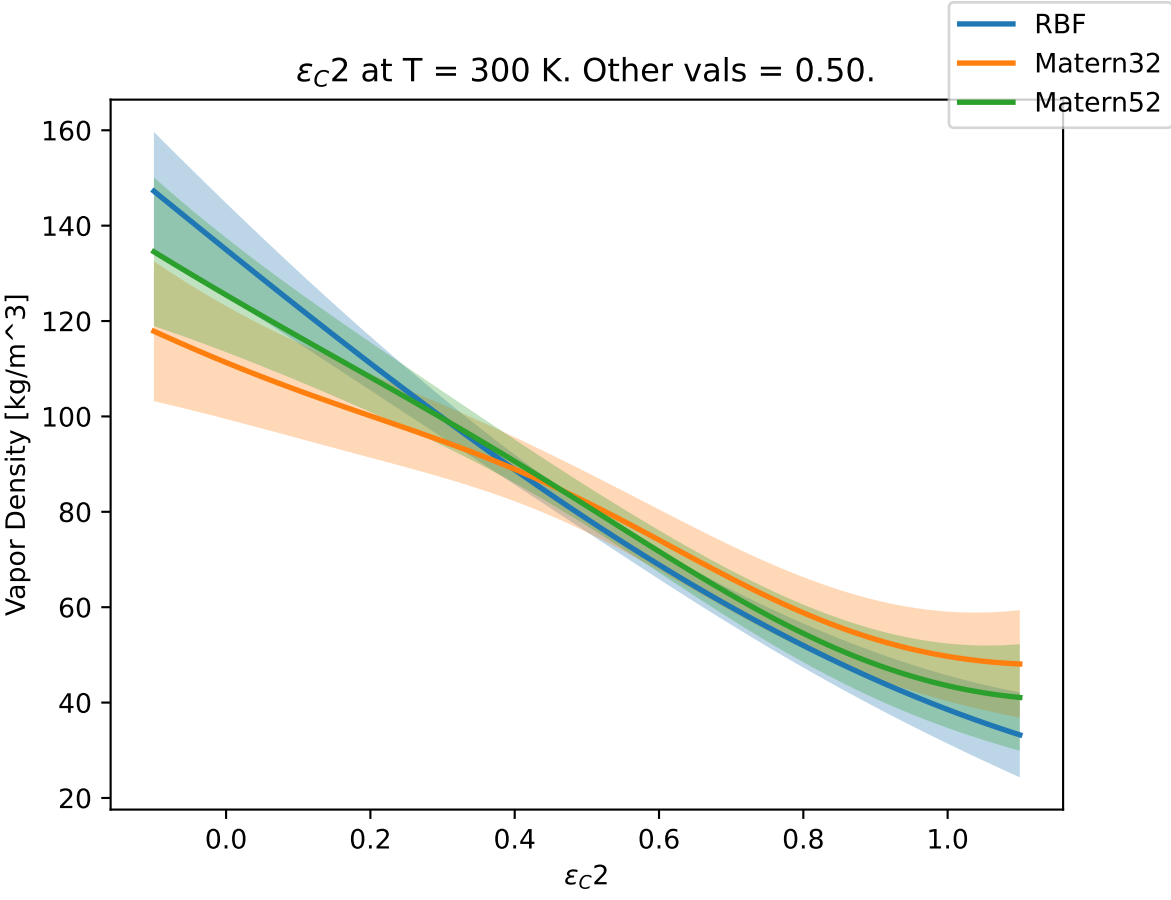

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

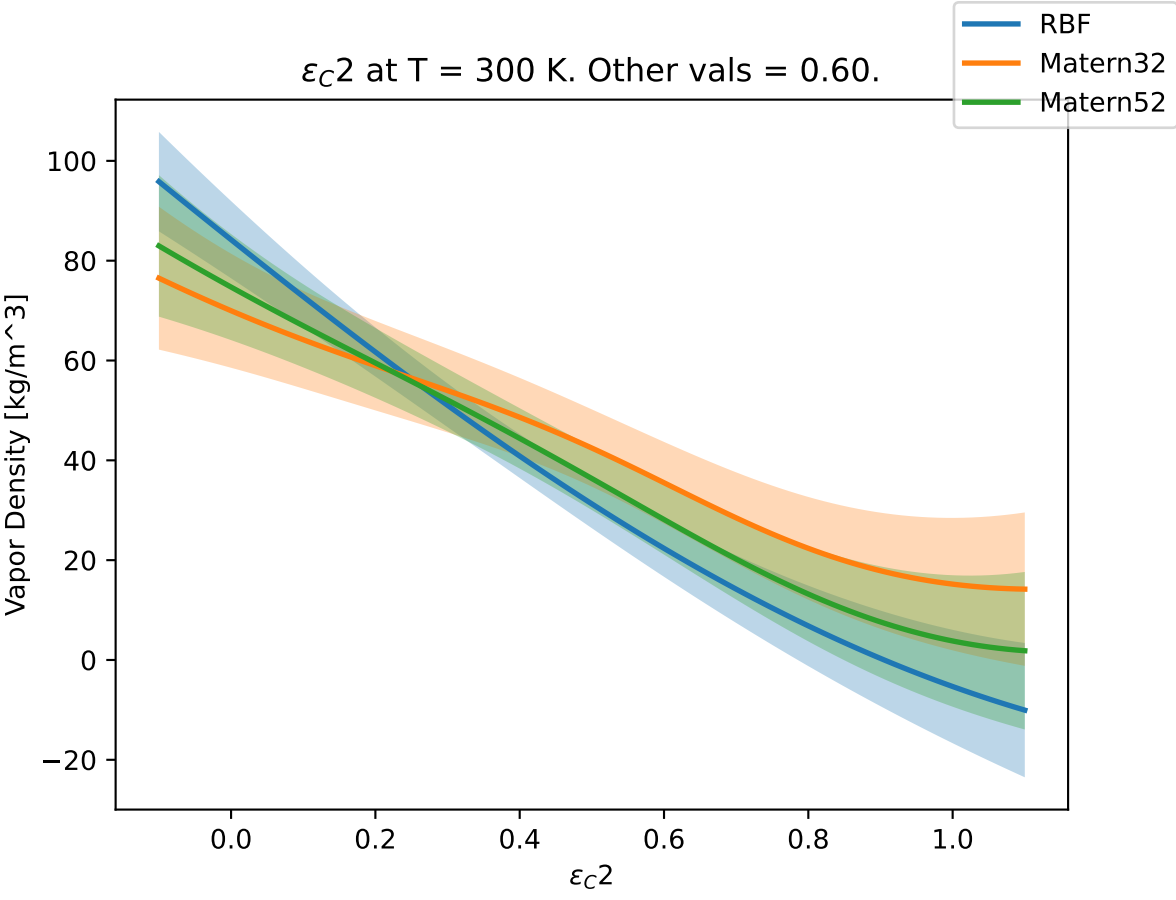

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

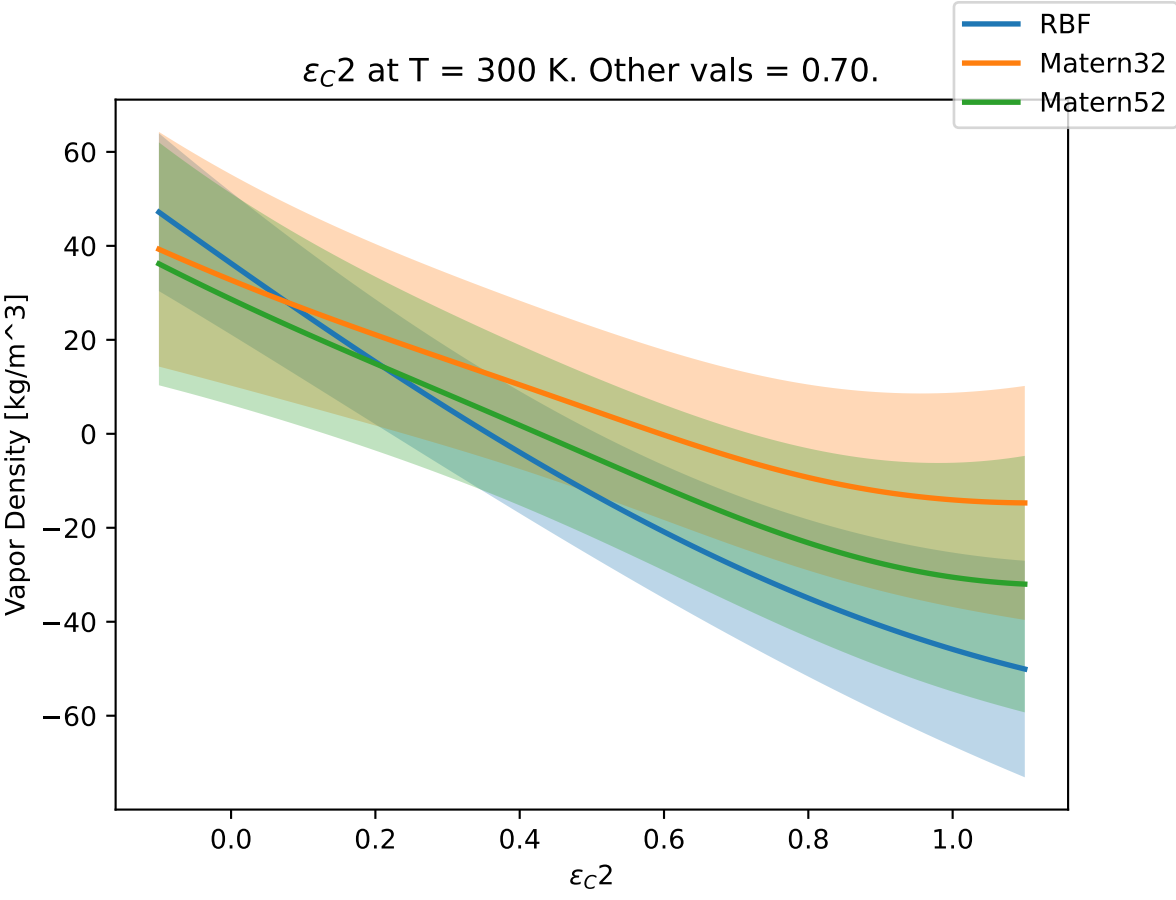

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

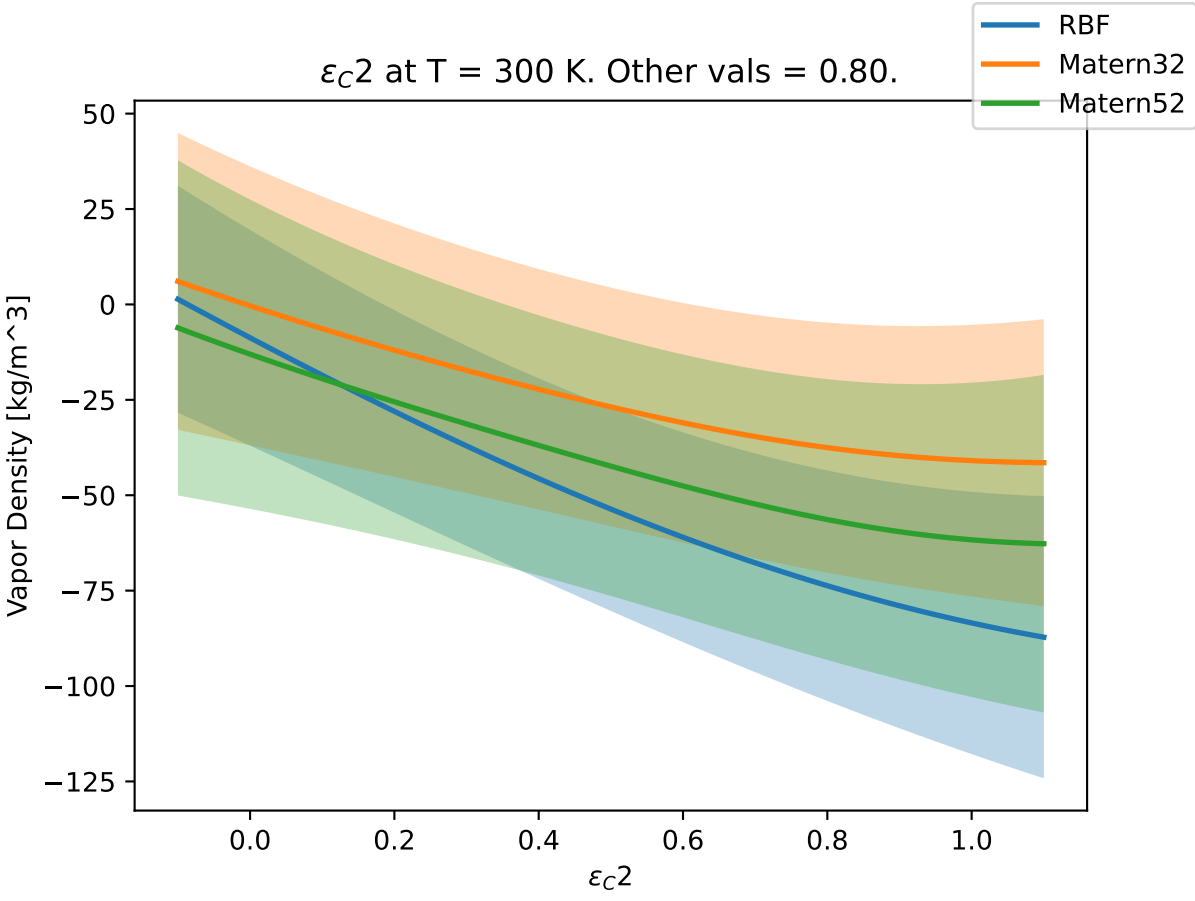

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
275
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

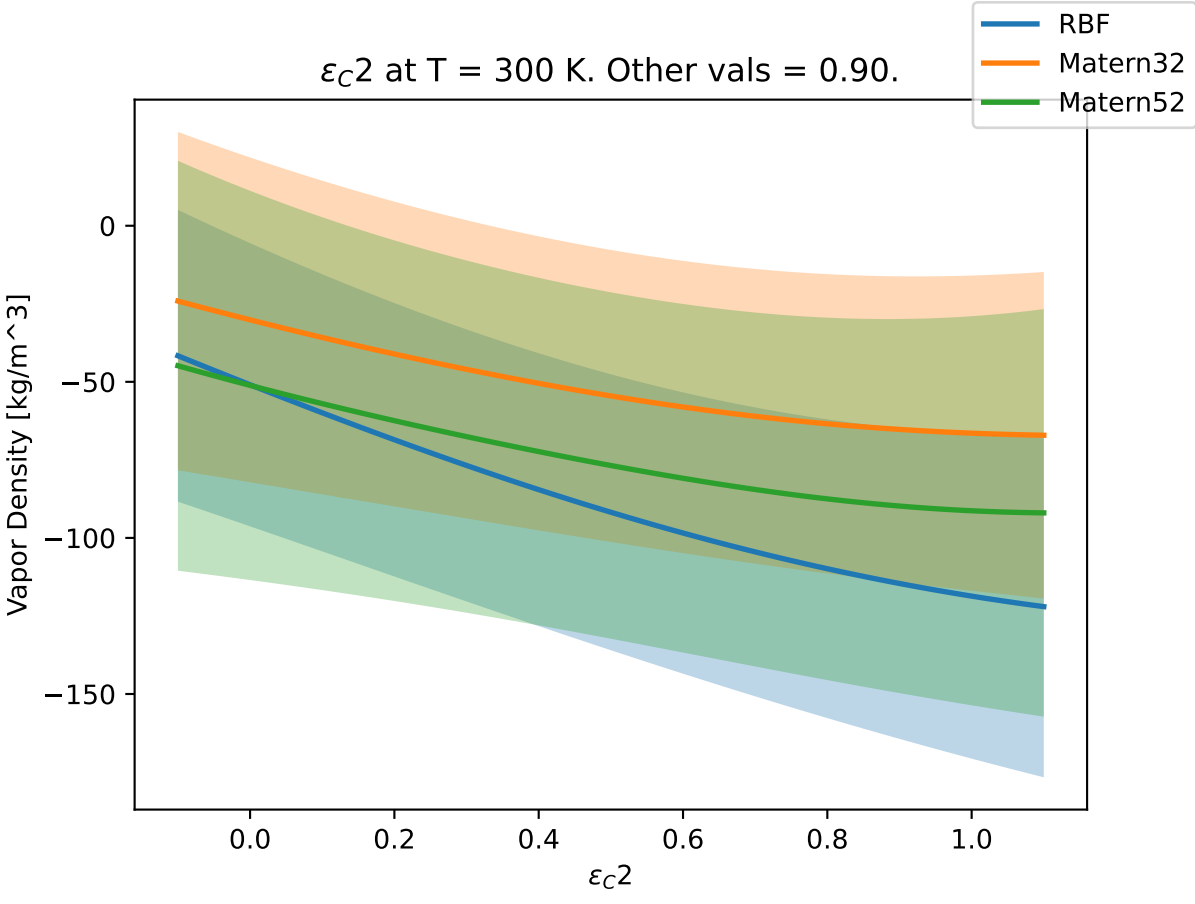

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
220
200
180
160
140
120
100
80
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

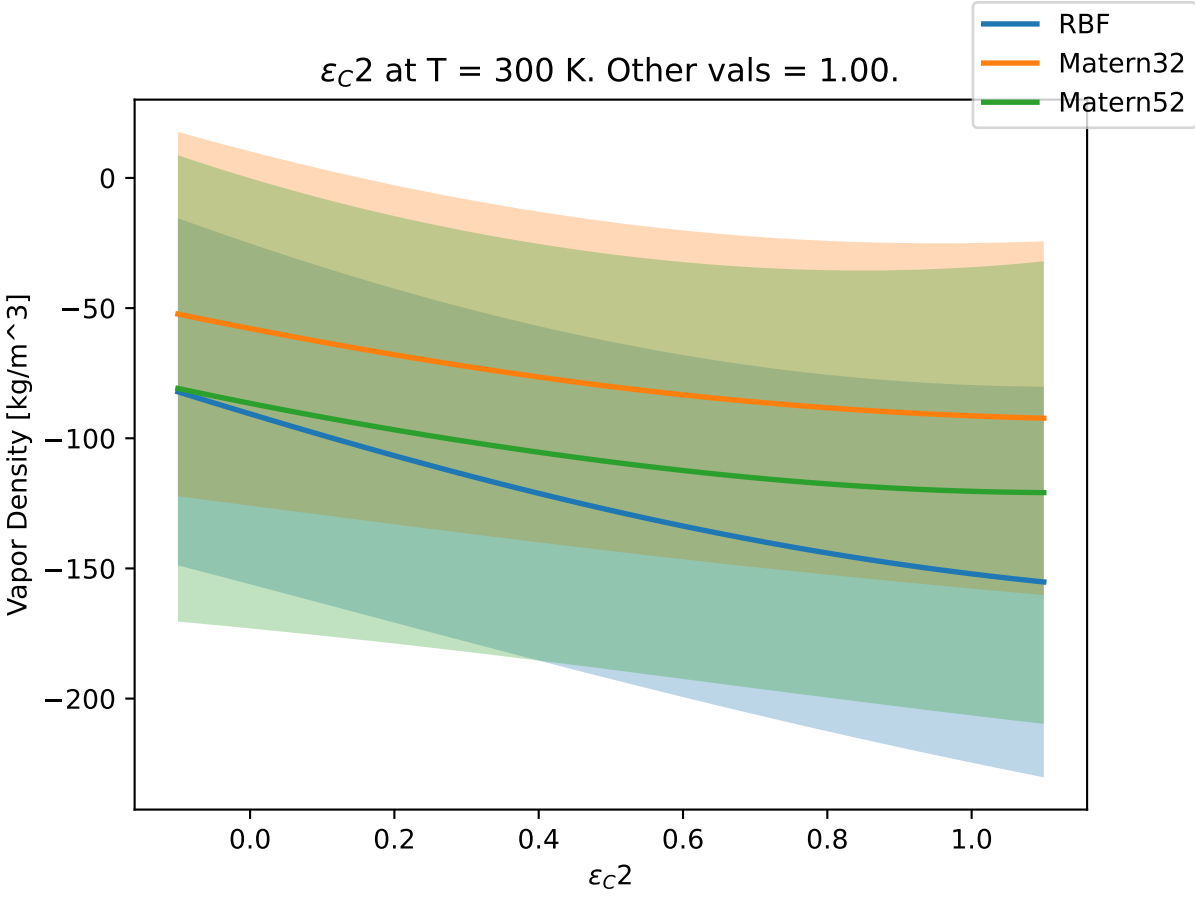

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
160
140
120
100
80
60
40
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

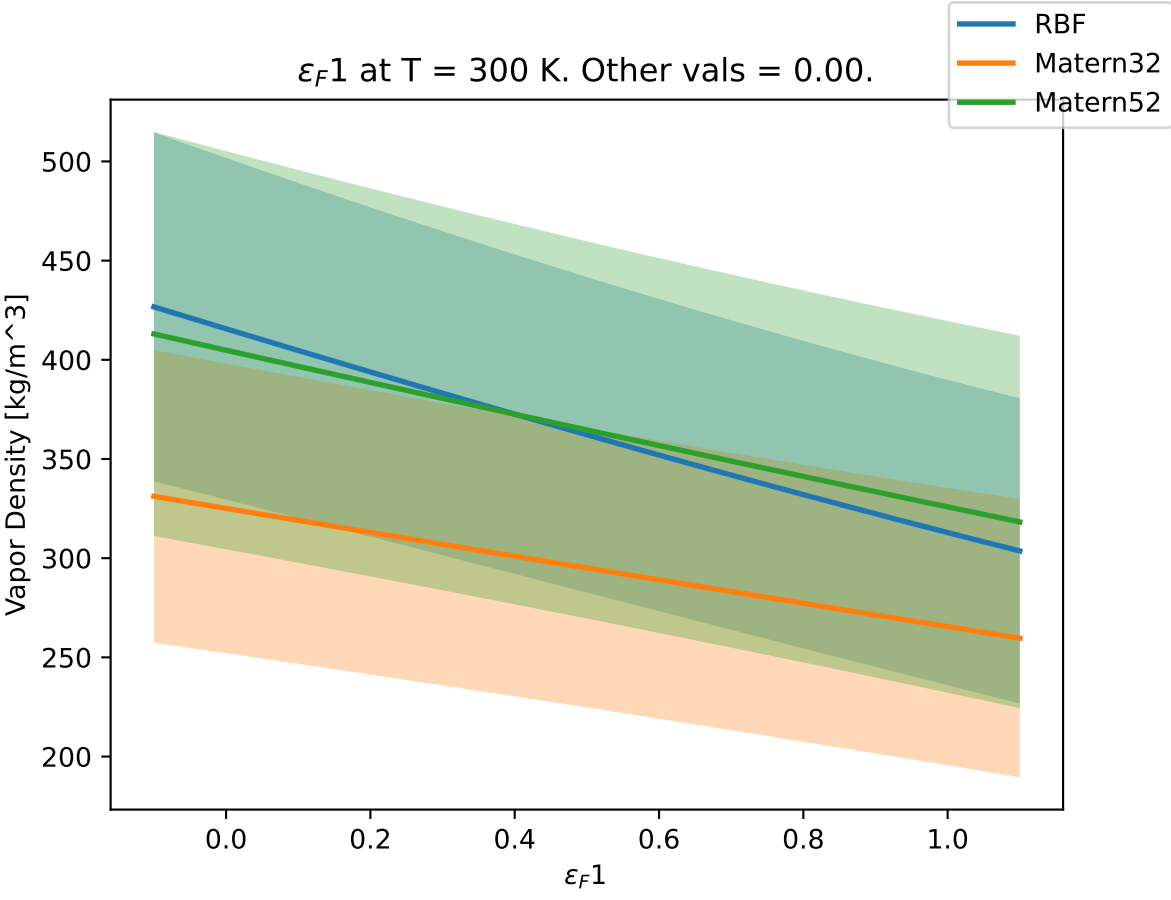

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
100
80
60
40
20
0
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

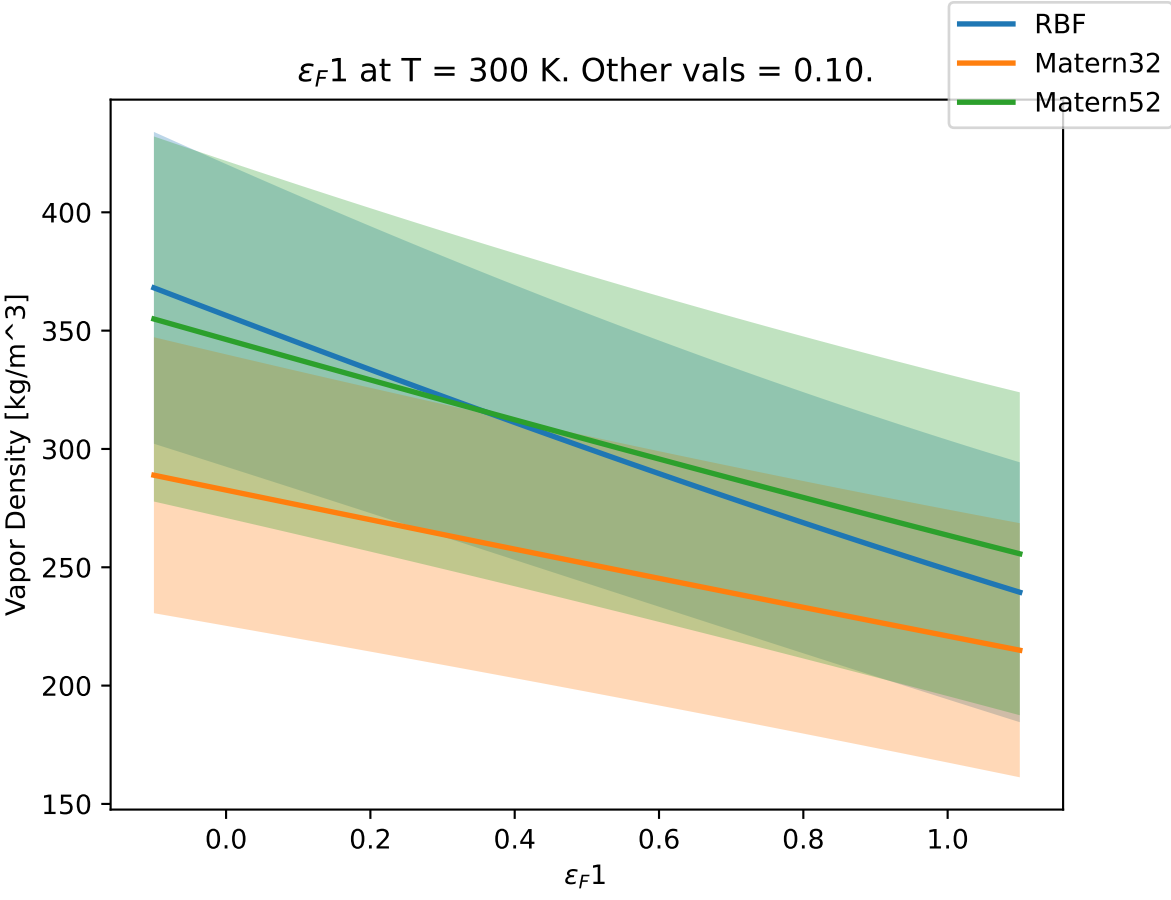

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
60
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

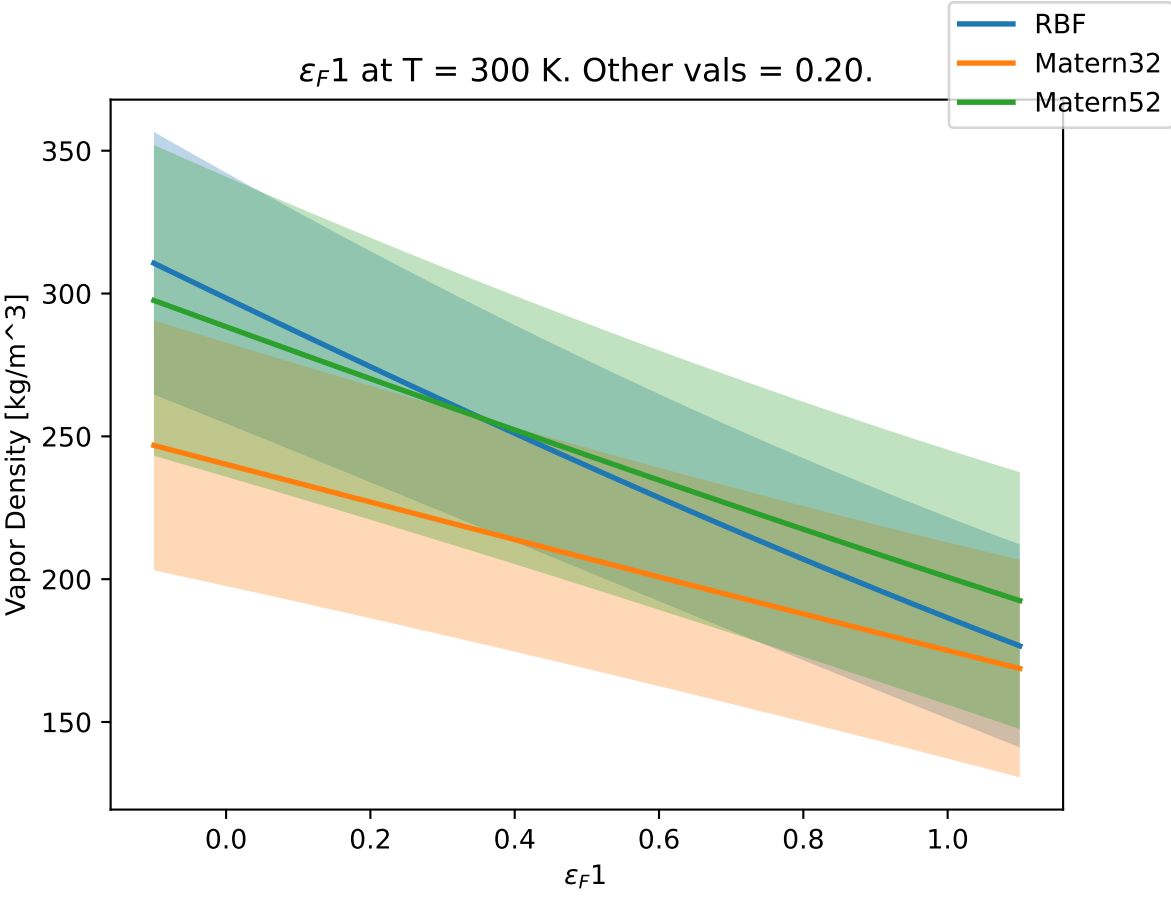

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
50
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

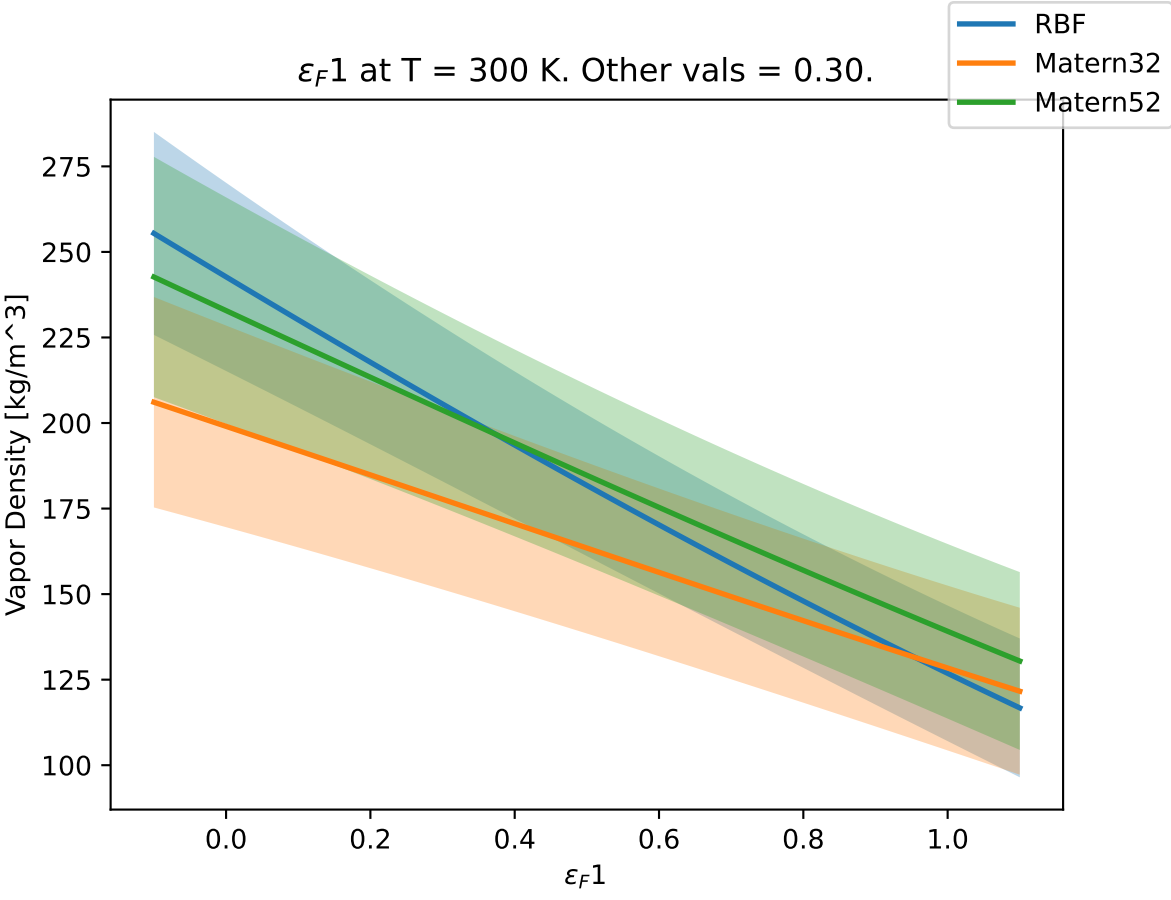

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

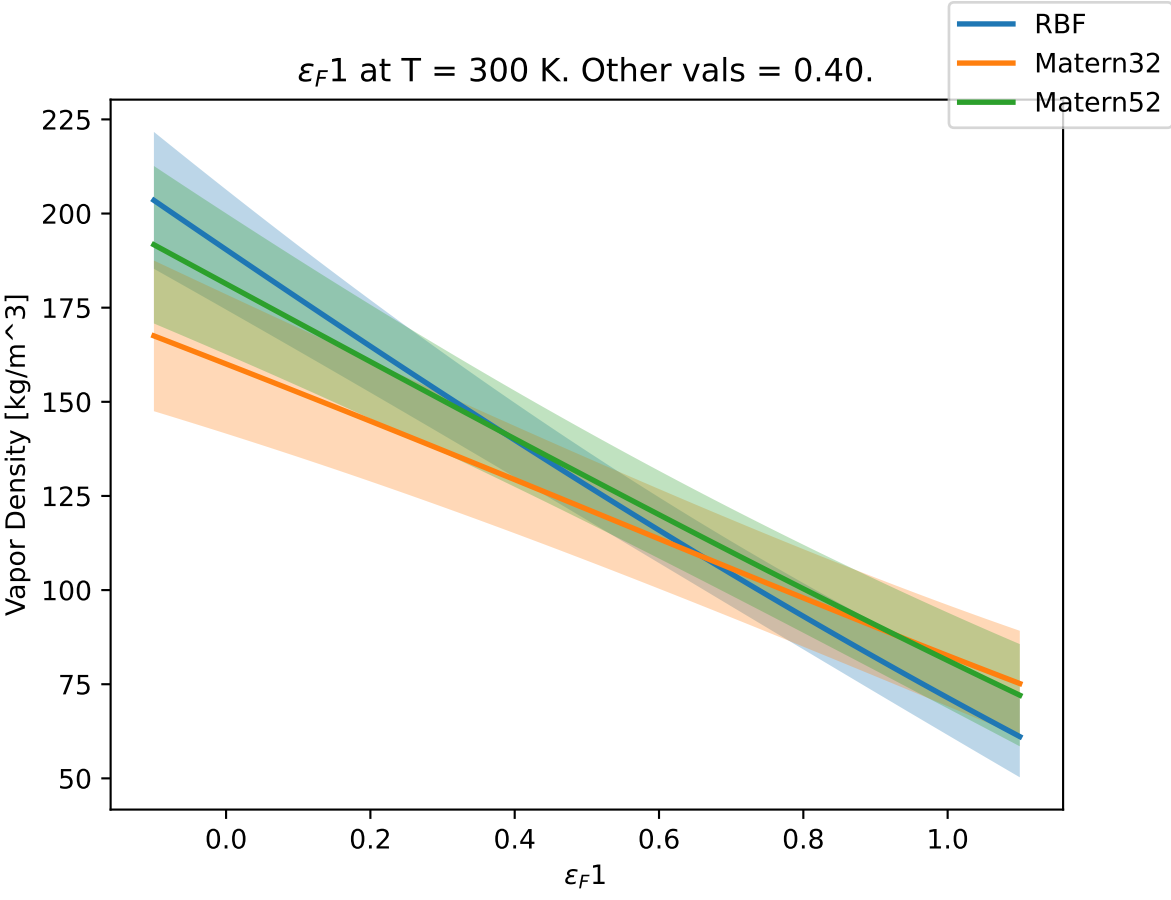

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

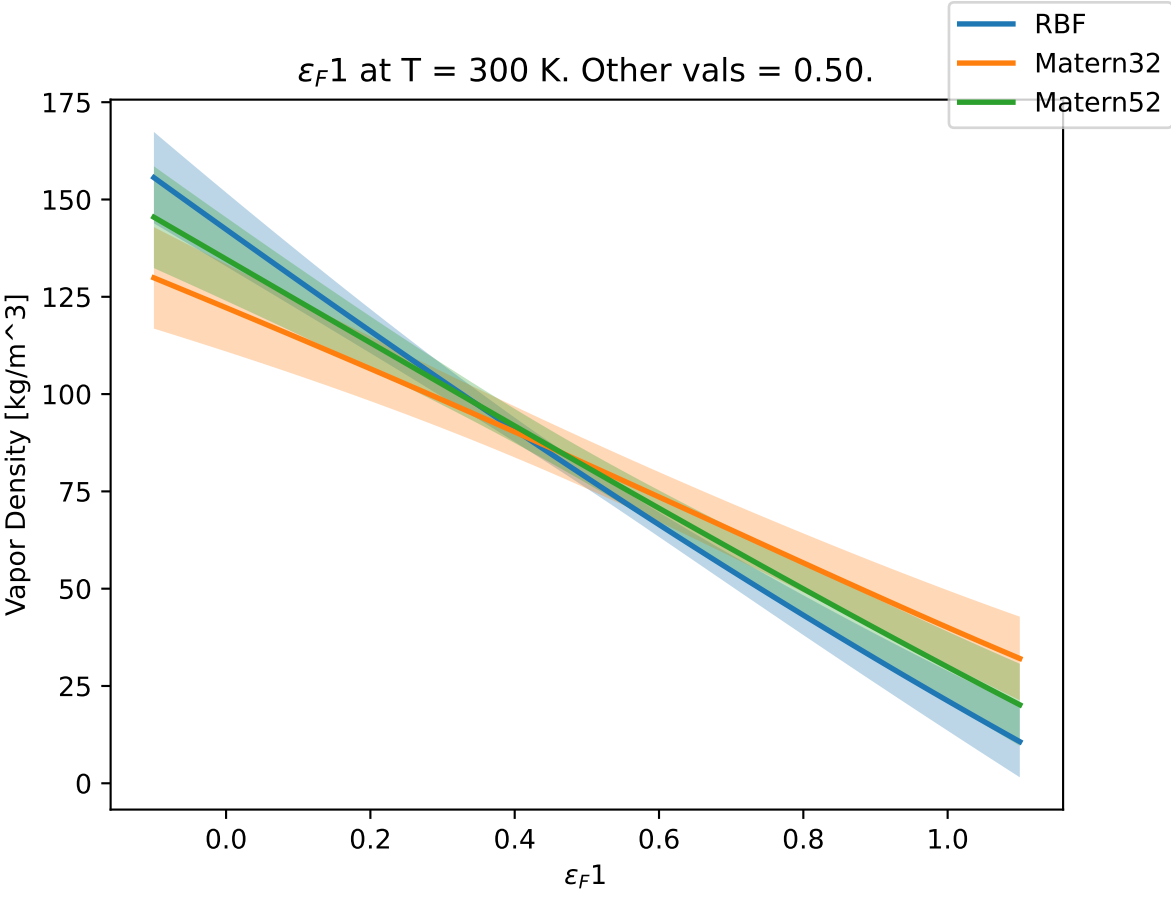

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

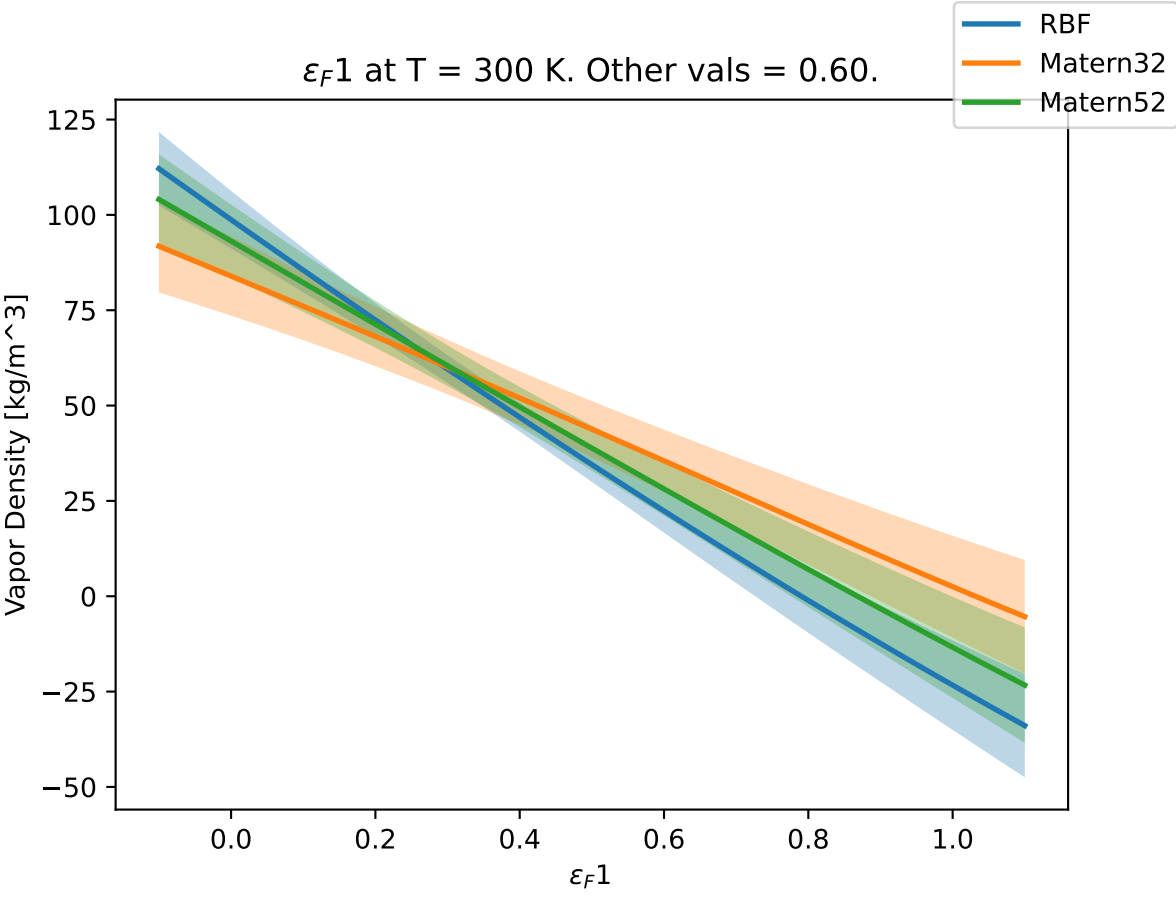

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

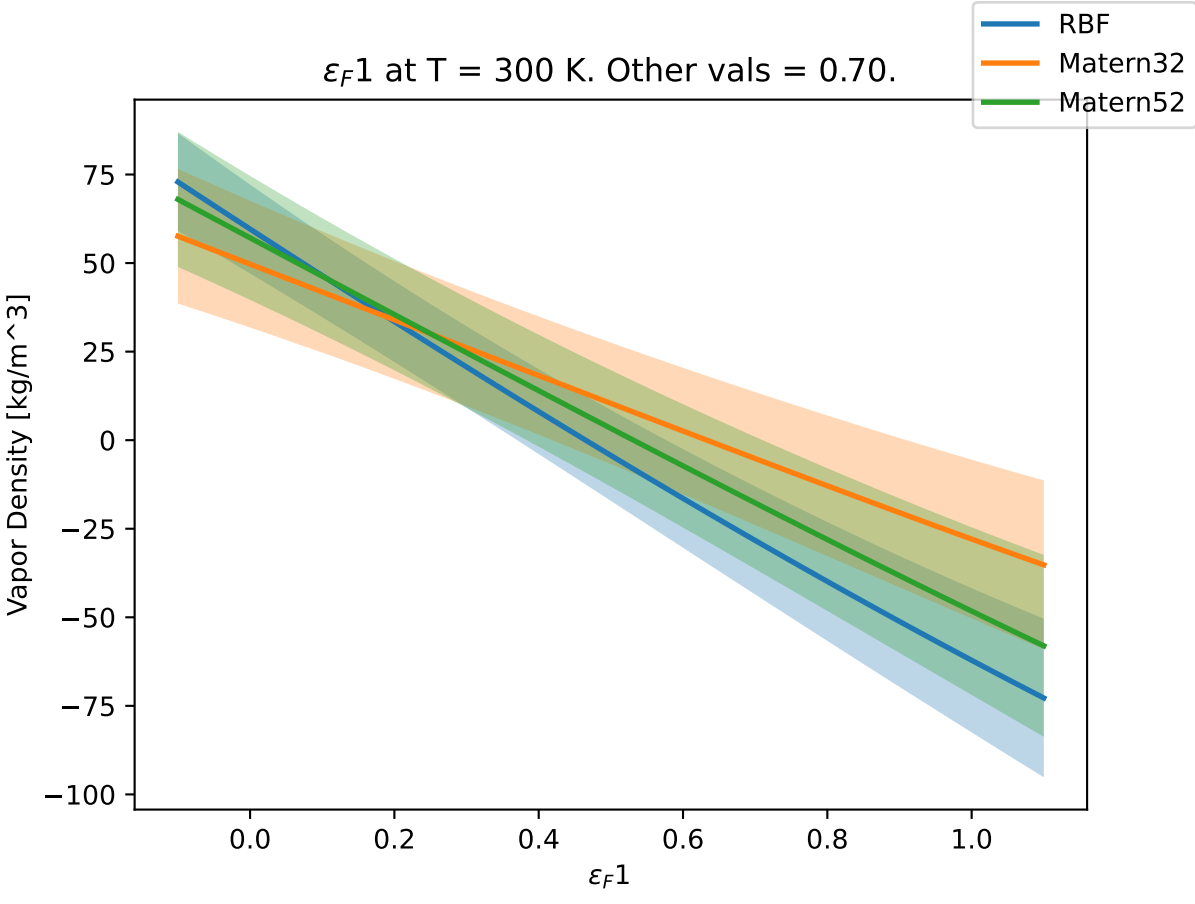

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

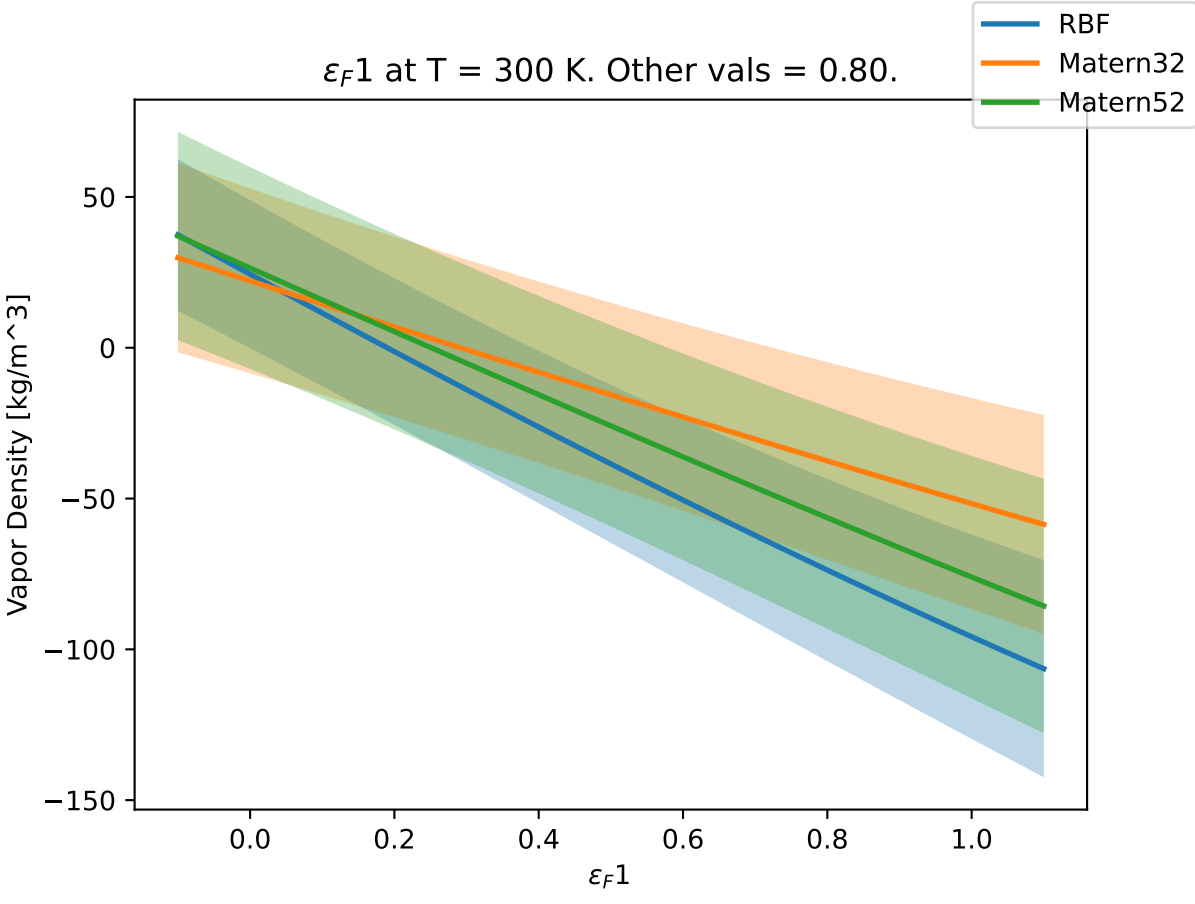

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
275
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

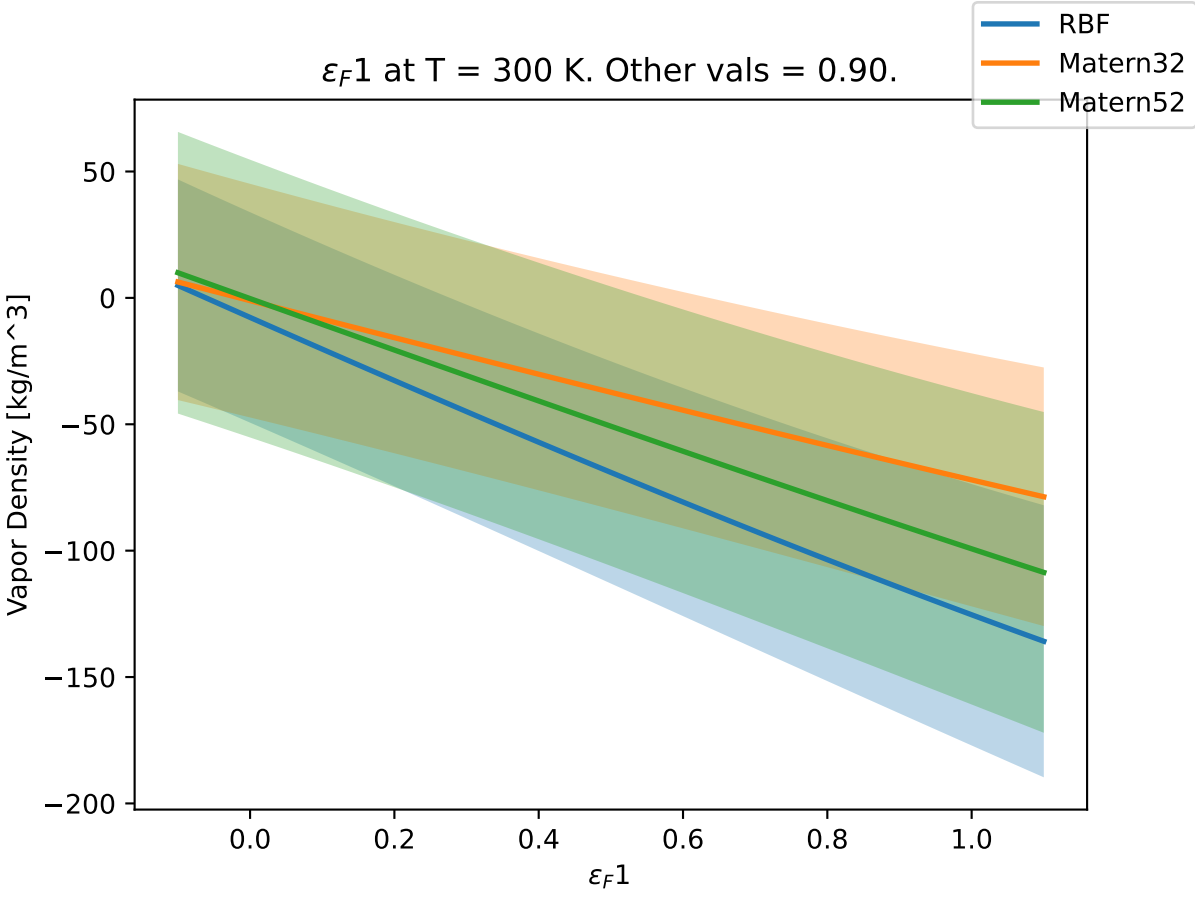

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
225
200
175
150
125
100
75
50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

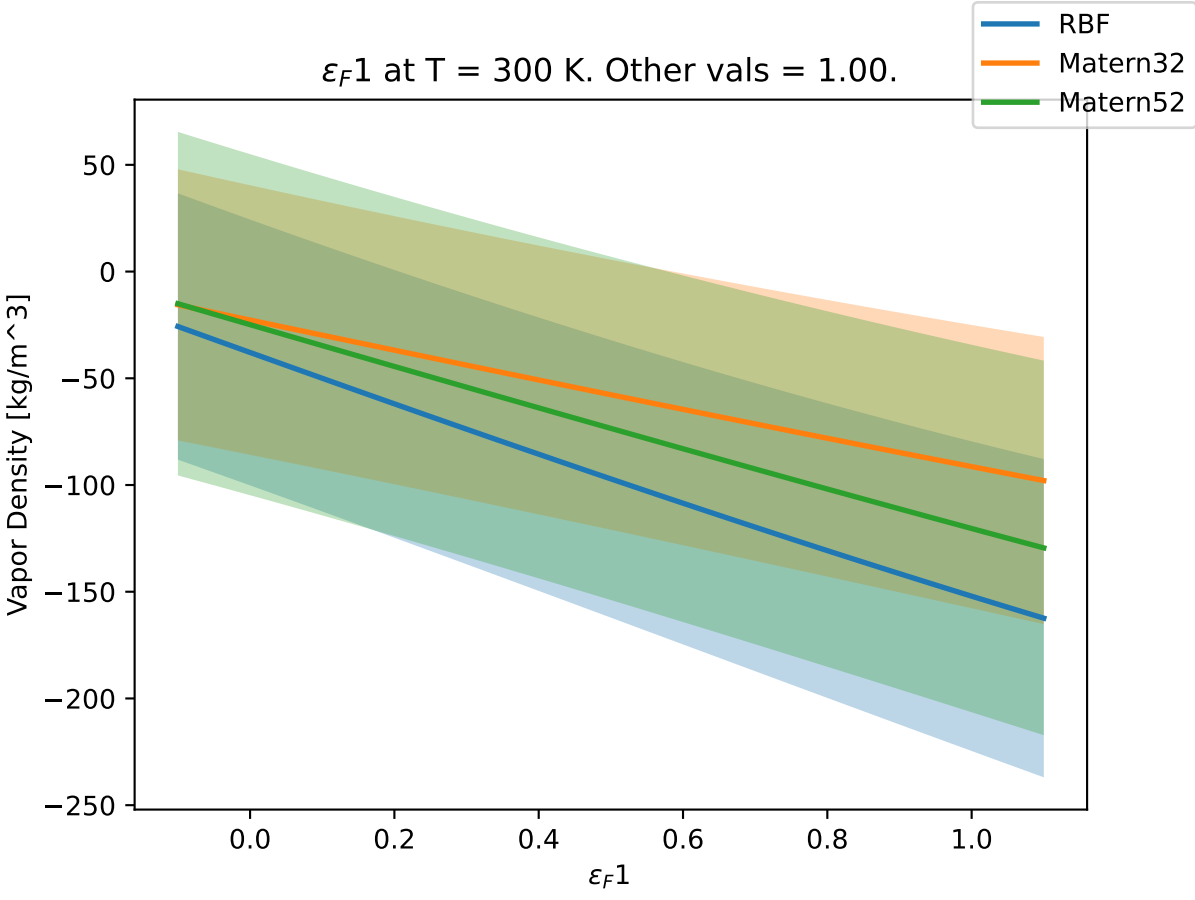

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

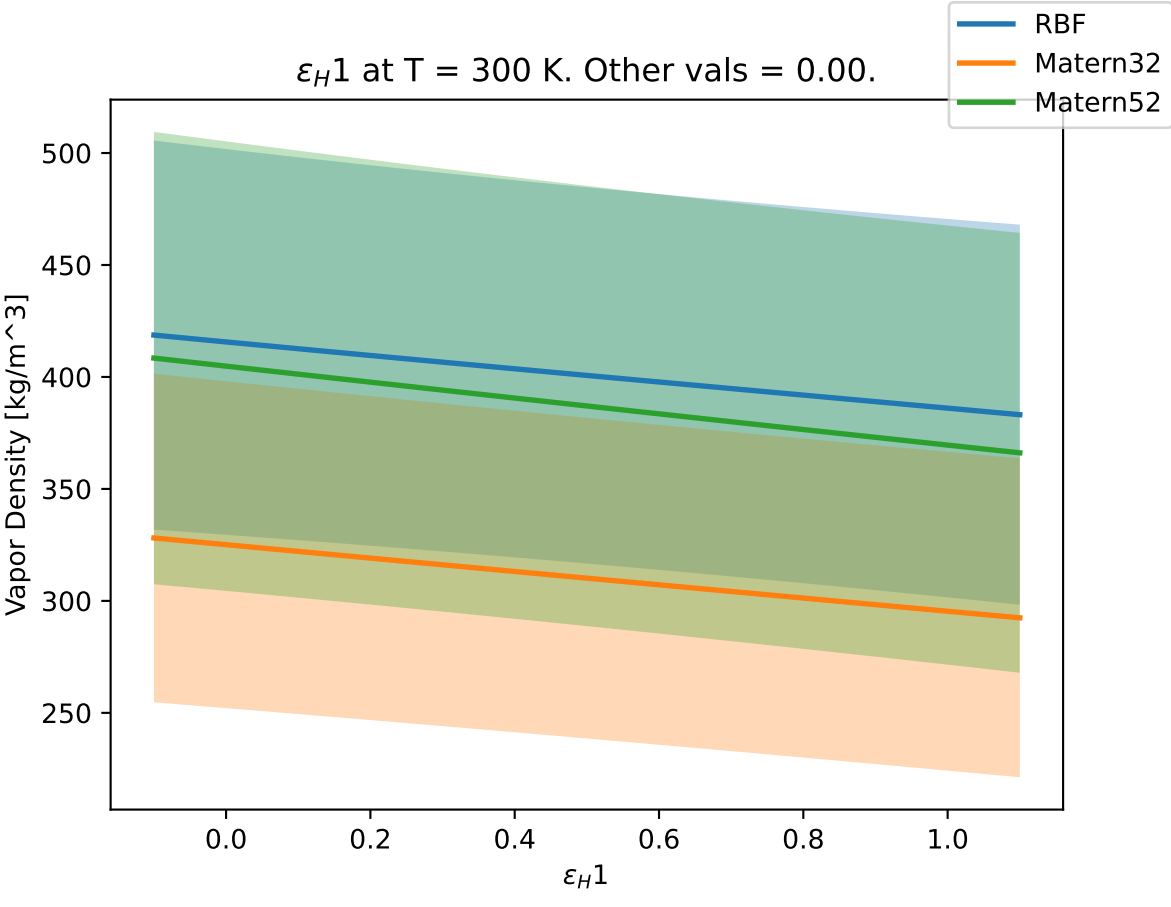

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
125
100
75
50
25
0
−25
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

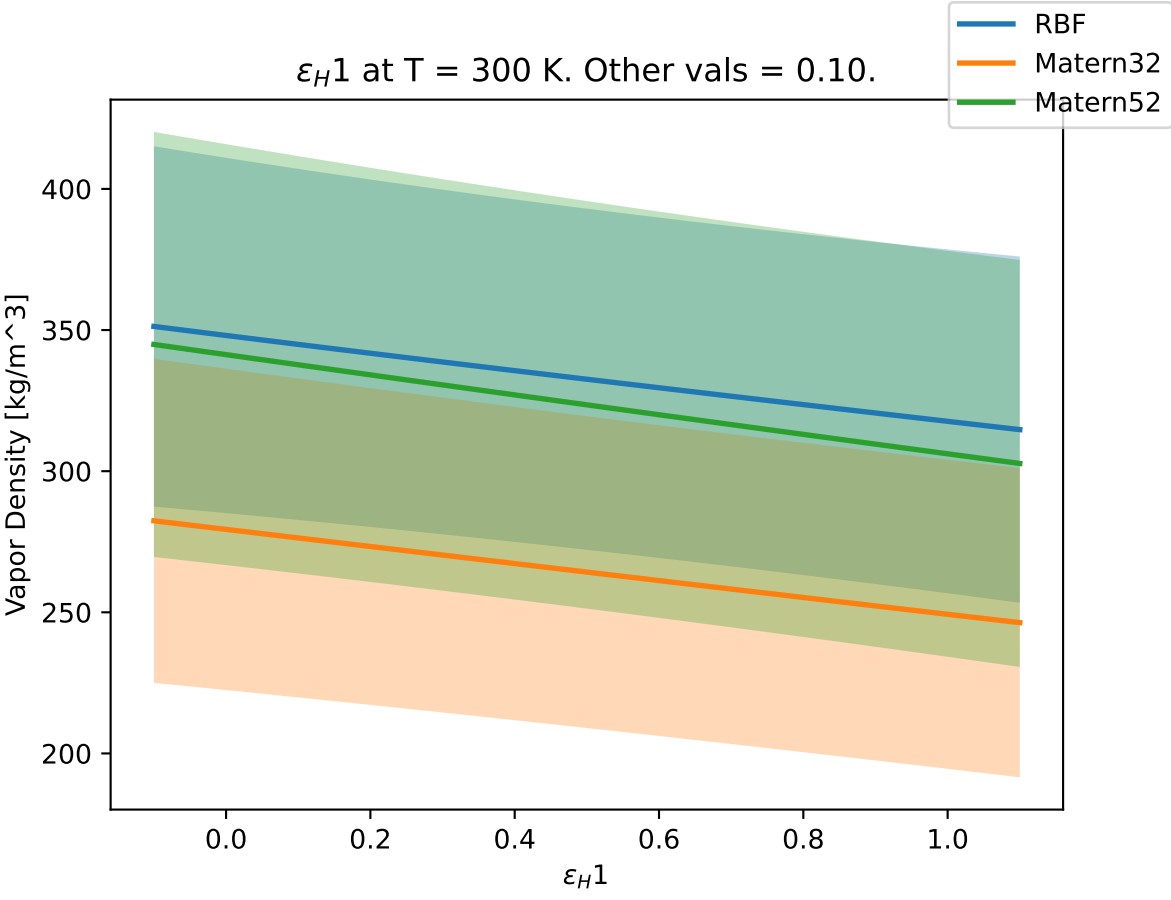

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
75
50
25
0
−25
−50
−75
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

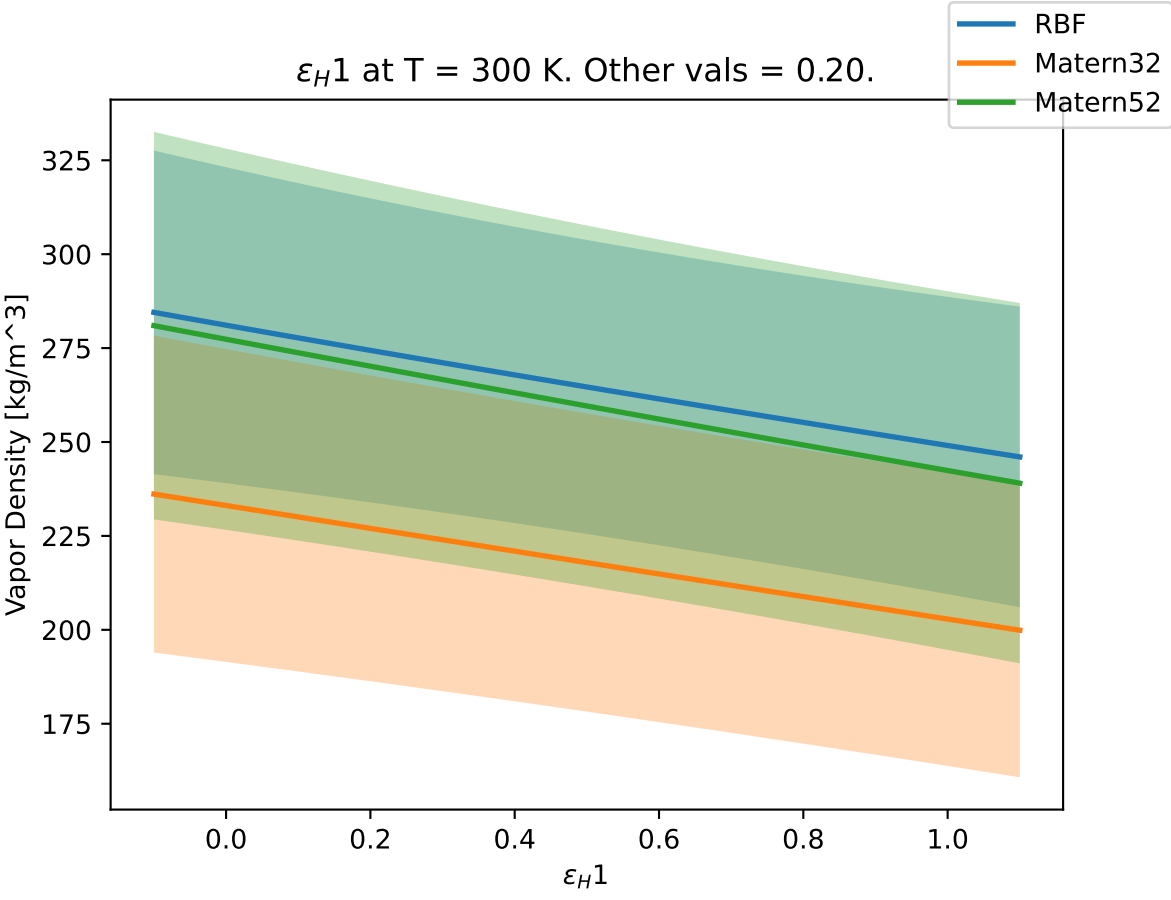

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

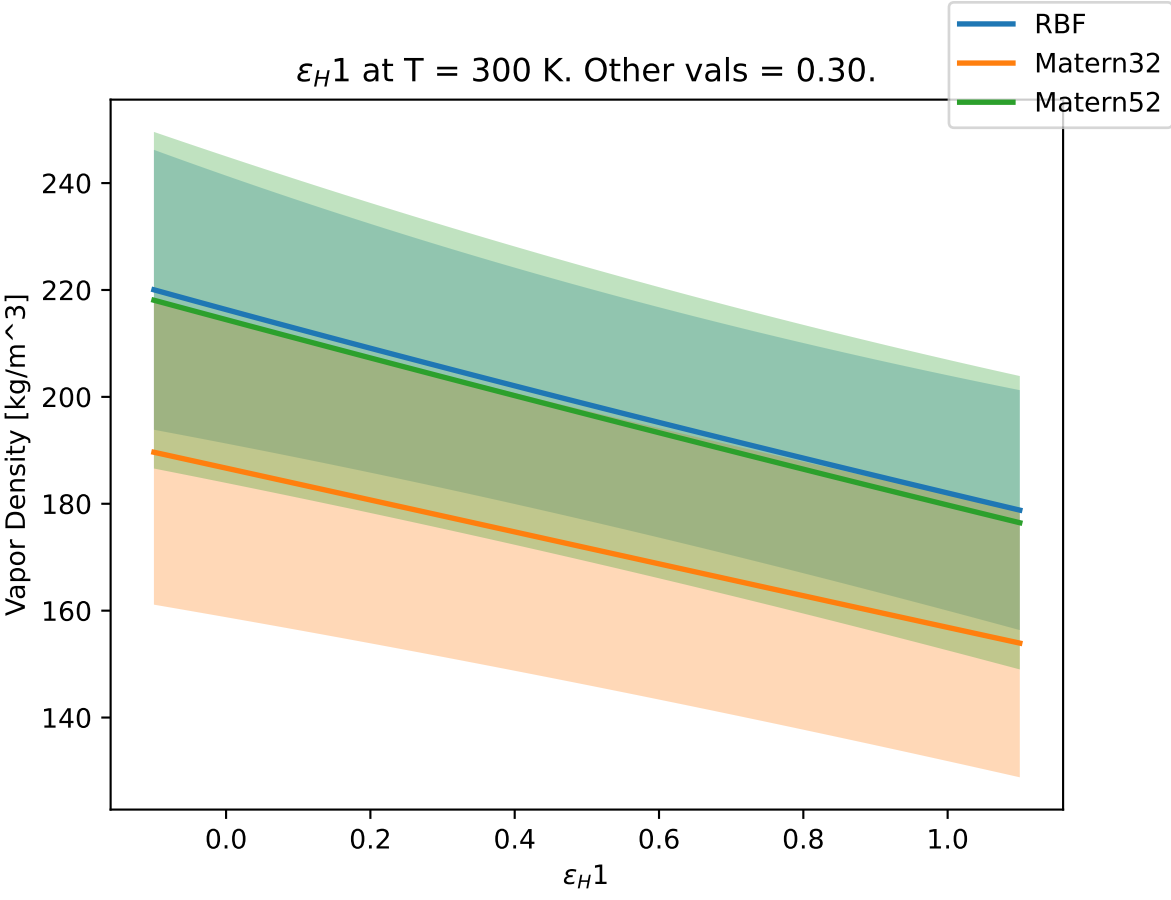

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

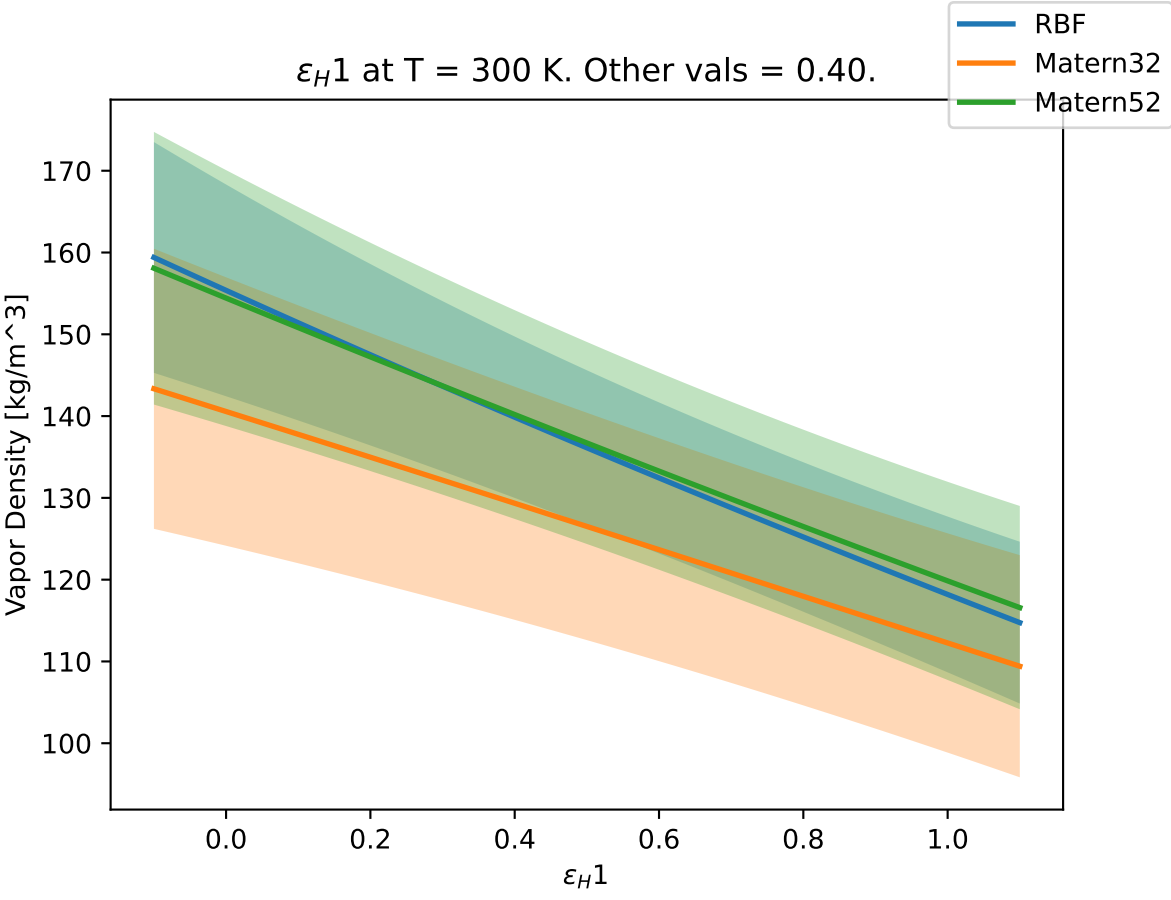

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

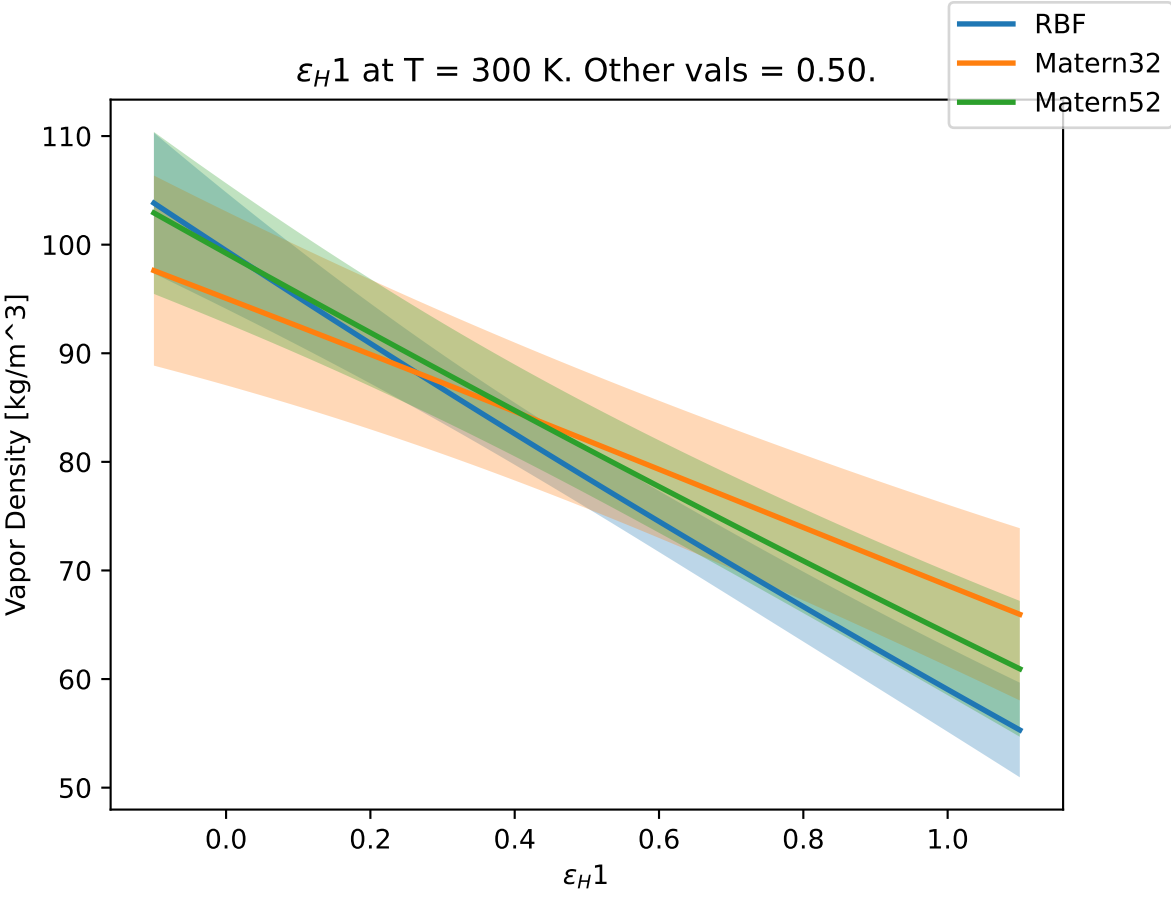

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.00.
Vapor Density [kg/m^3]
500
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

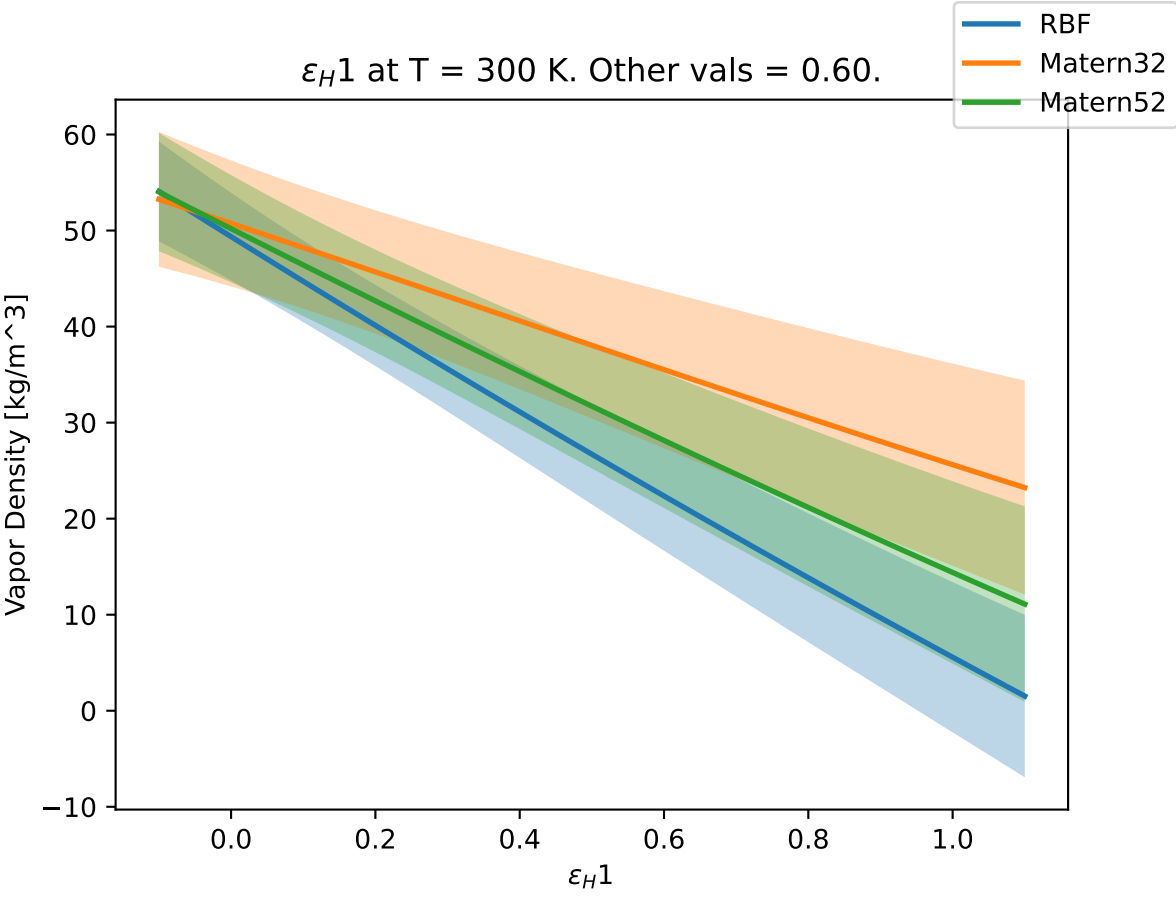

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.10.
Vapor Density [kg/m^3]
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

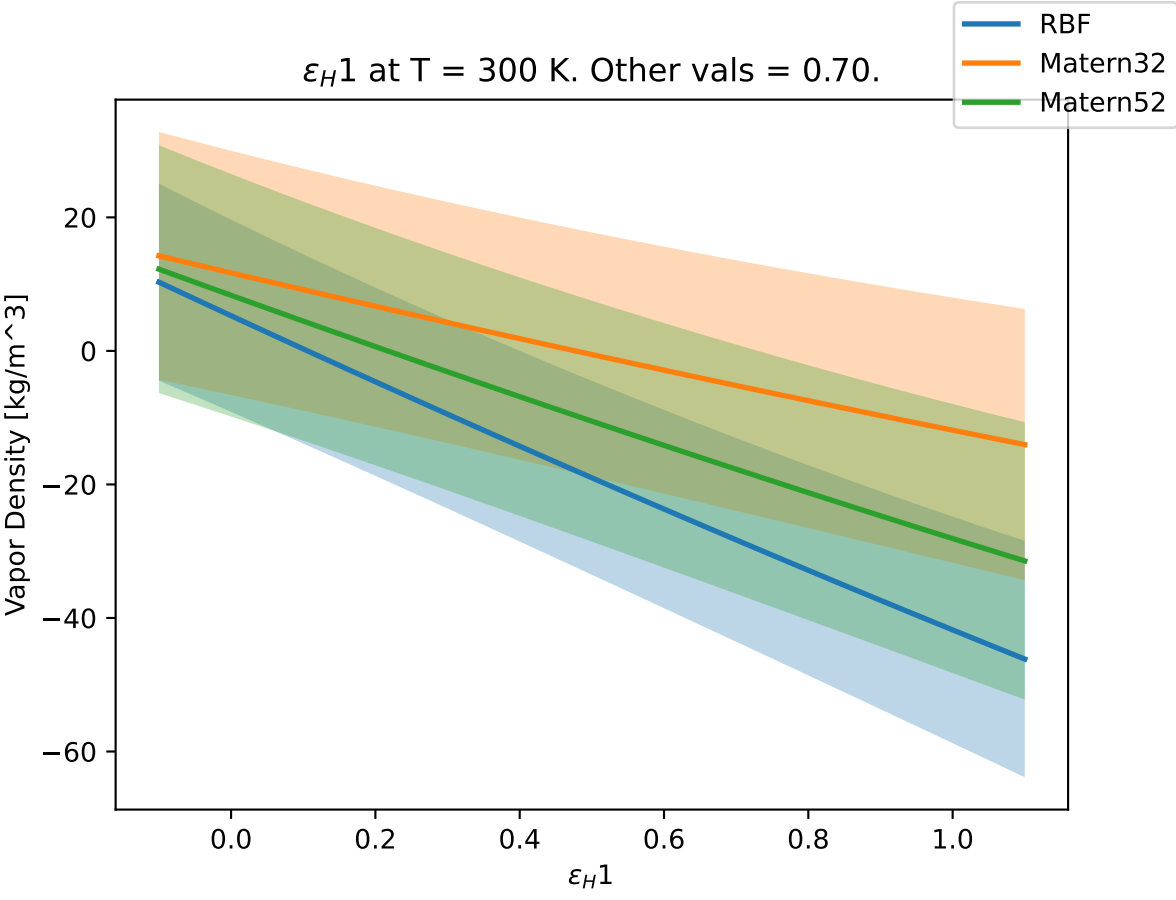

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.20.
Vapor Density [kg/m^3]
325
300
275
250
225
200
175
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

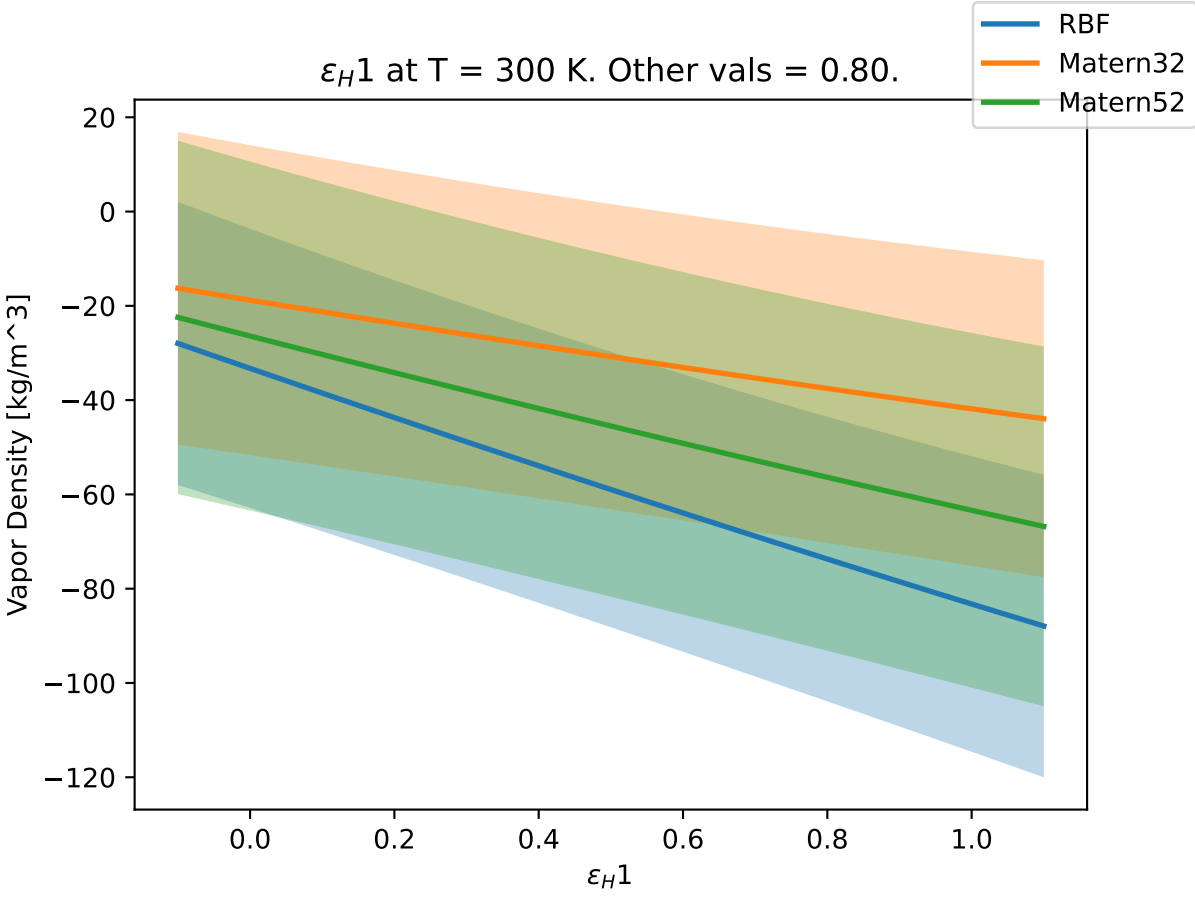

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.30.
Vapor Density [kg/m^3]
240
220
200
180
160
140
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

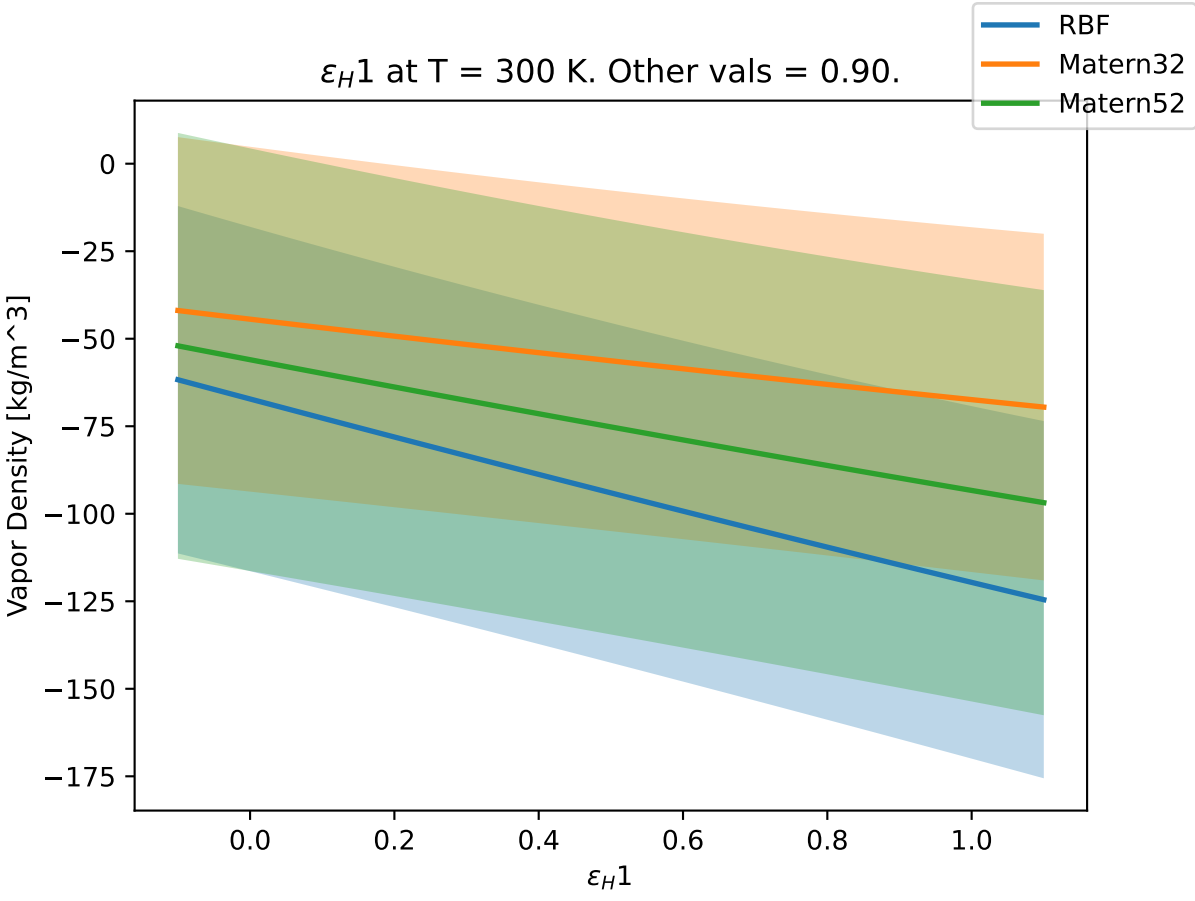

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.40.
Vapor Density [kg/m^3]
170
160
150
140
130
120
110
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

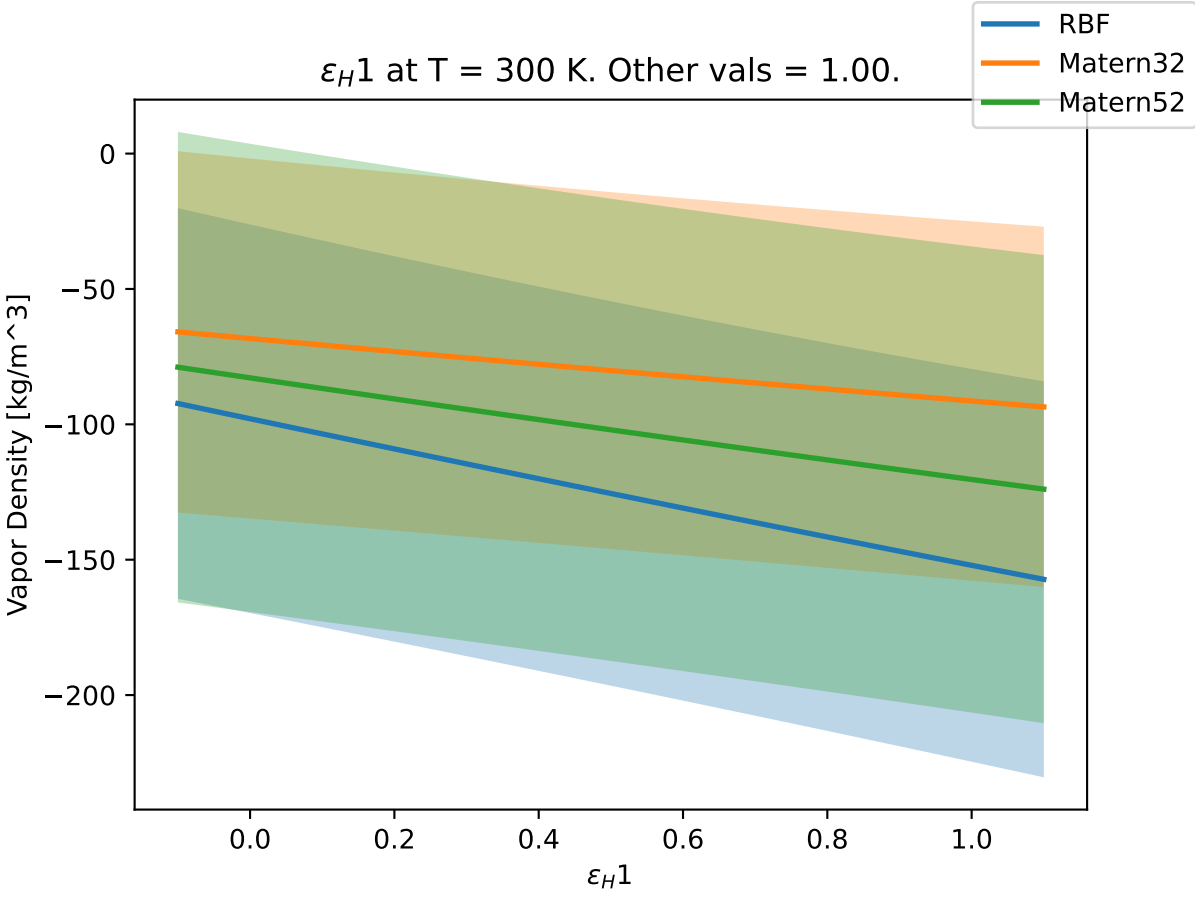

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.50.
Vapor Density [kg/m^3]
110
100
90
80
70
60
50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

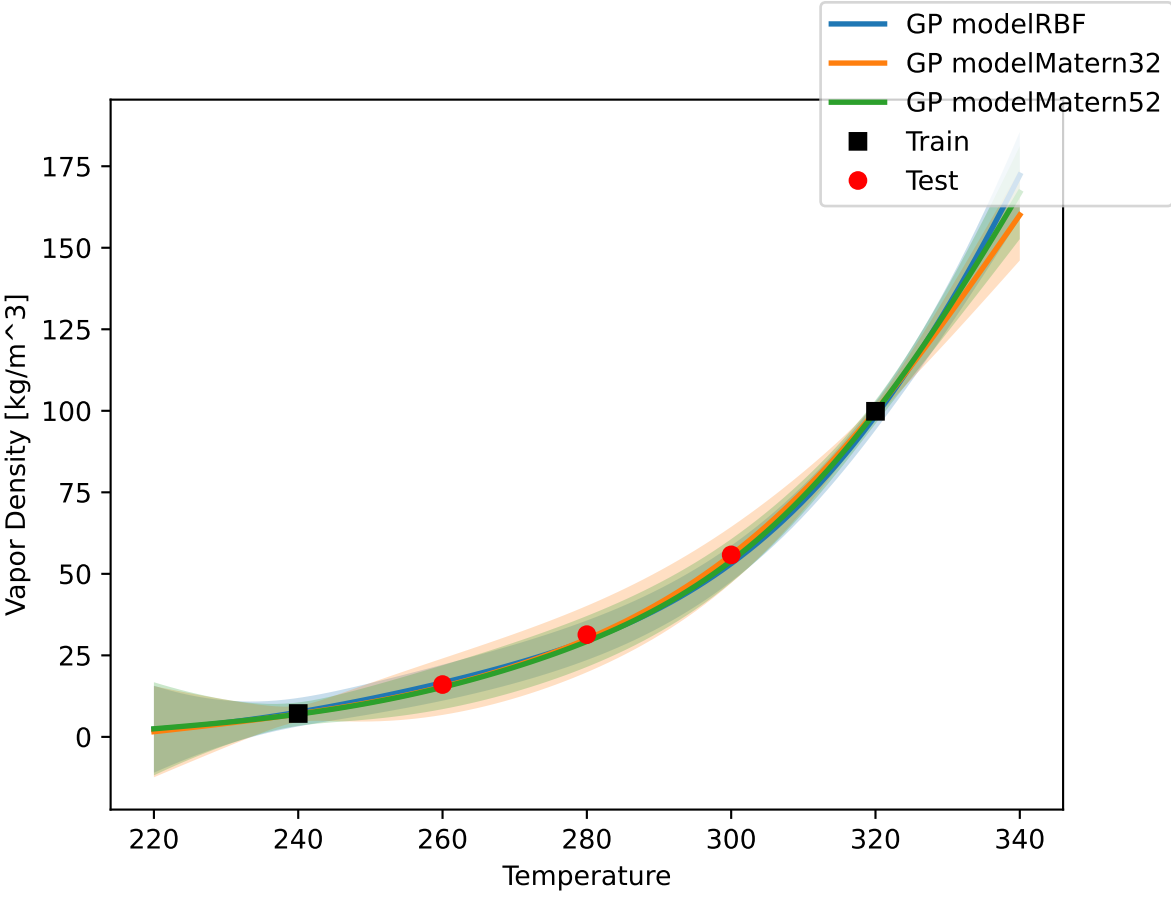

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.60.
Vapor Density [kg/m^3]
60
50
40
30
20
10
0
−10
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

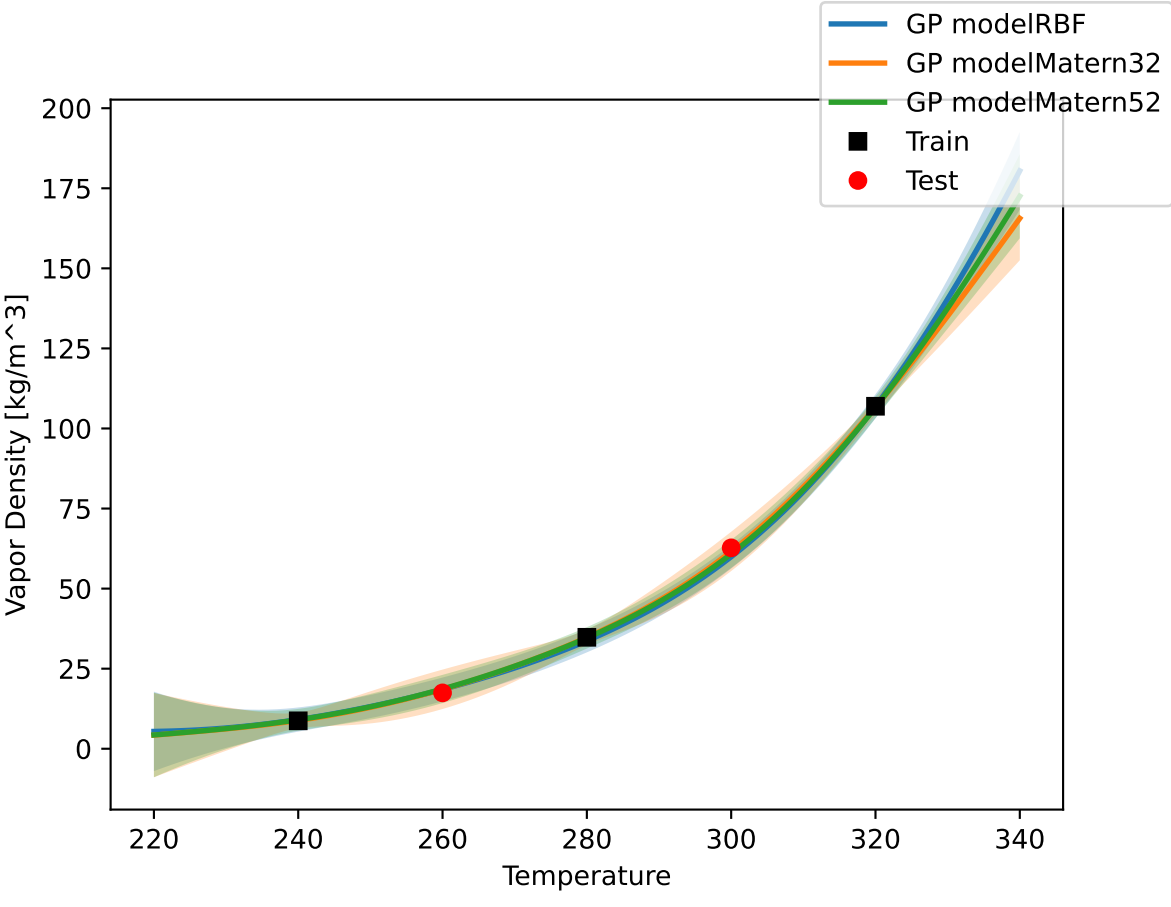

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.70.
Vapor Density [kg/m^3]
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

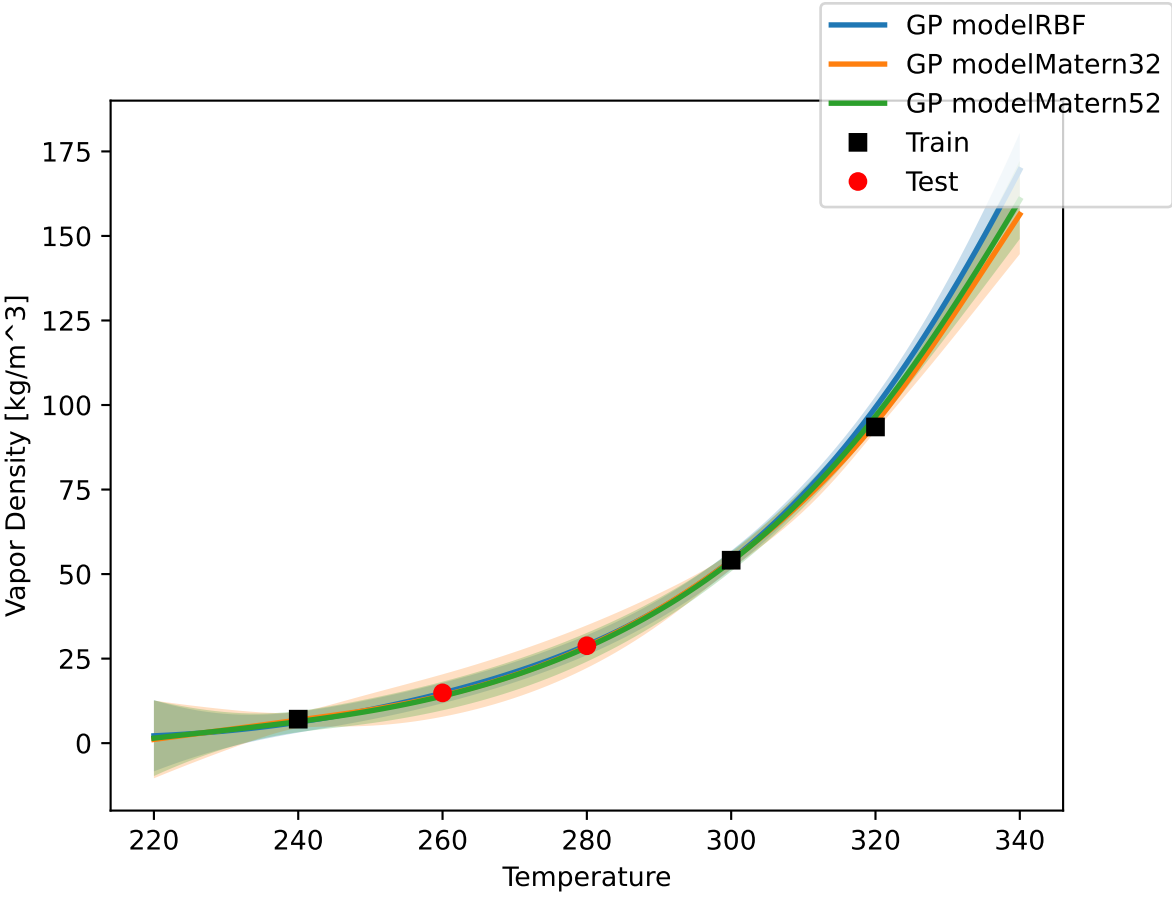

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.80.
Vapor Density [kg/m^3]
20
0
−20
−40
−60
−80
−100
−120
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

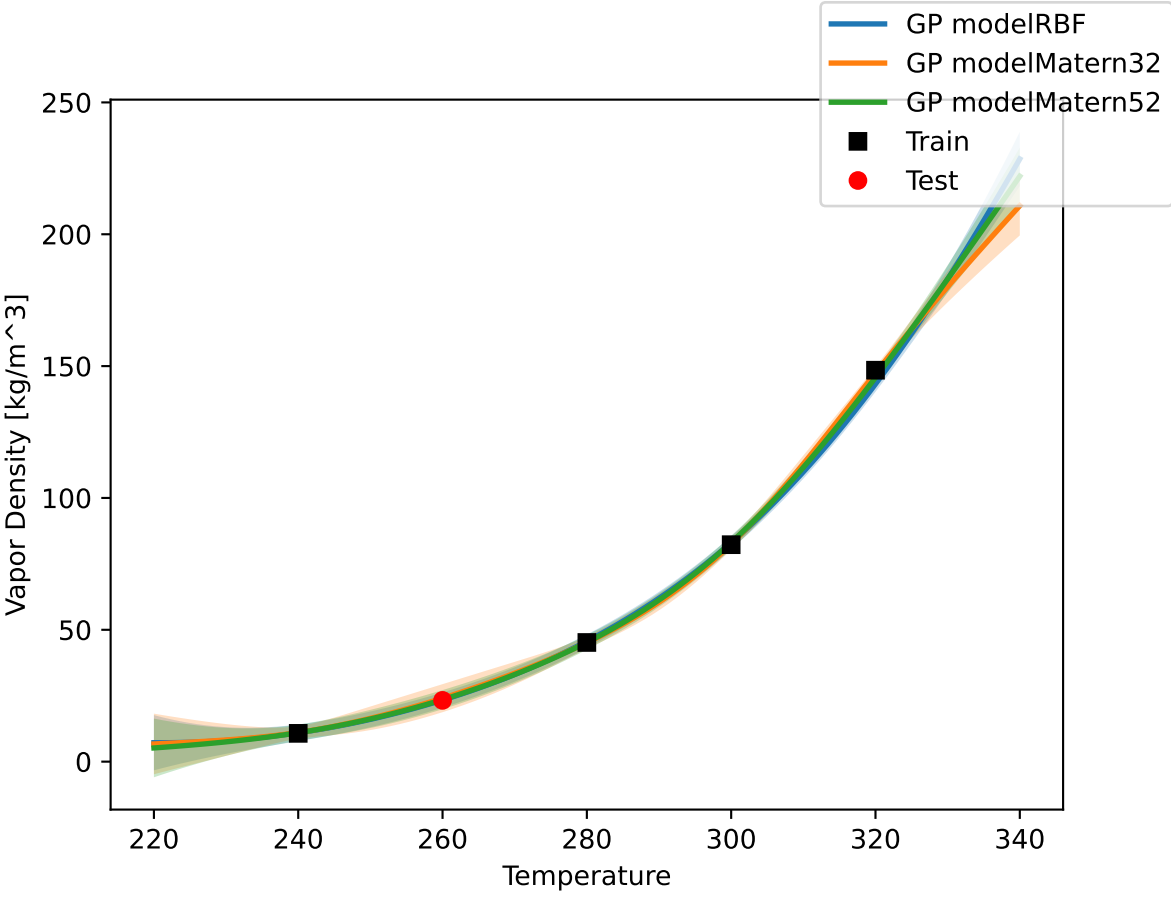

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.90.
Vapor Density [kg/m^3]
0
−25
−50
−75
−100
−125
−150
−175
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

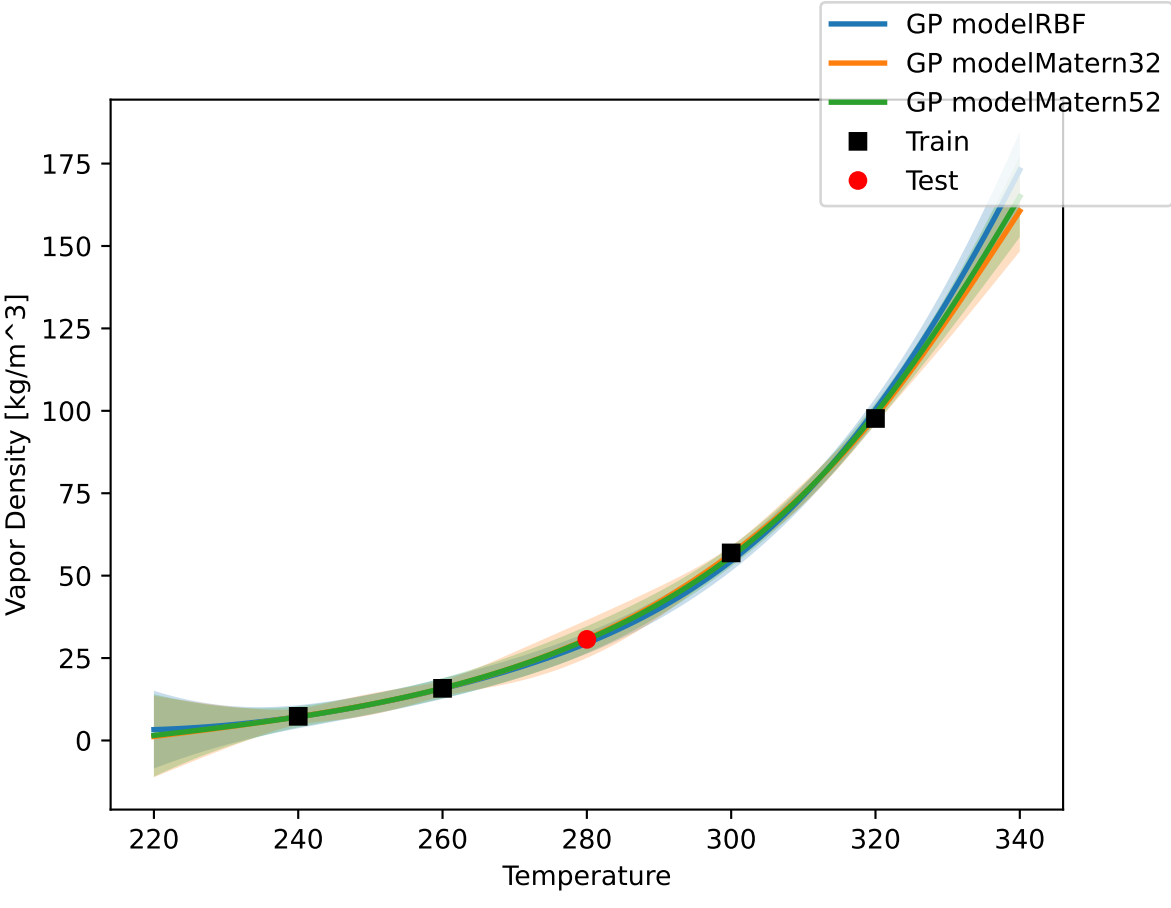

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 1.00.
Vapor Density [kg/m^3]
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
200
175
150
125
100
75
50
25
0
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
250
200
150
100
50
0
Vapor Density [kg/m^3]
220
240
260
280
300
320
340
Temperature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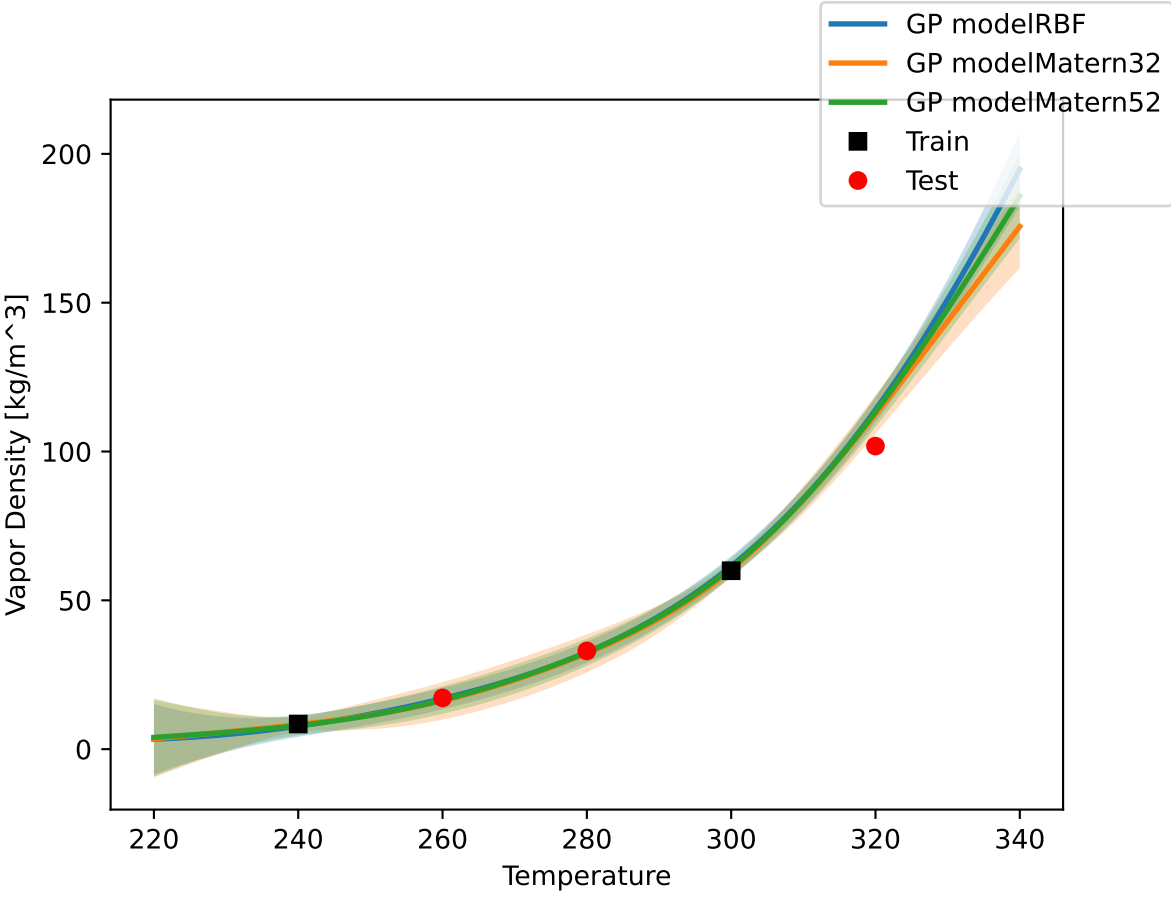
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
220
240
260
280
300
320
340
Temperature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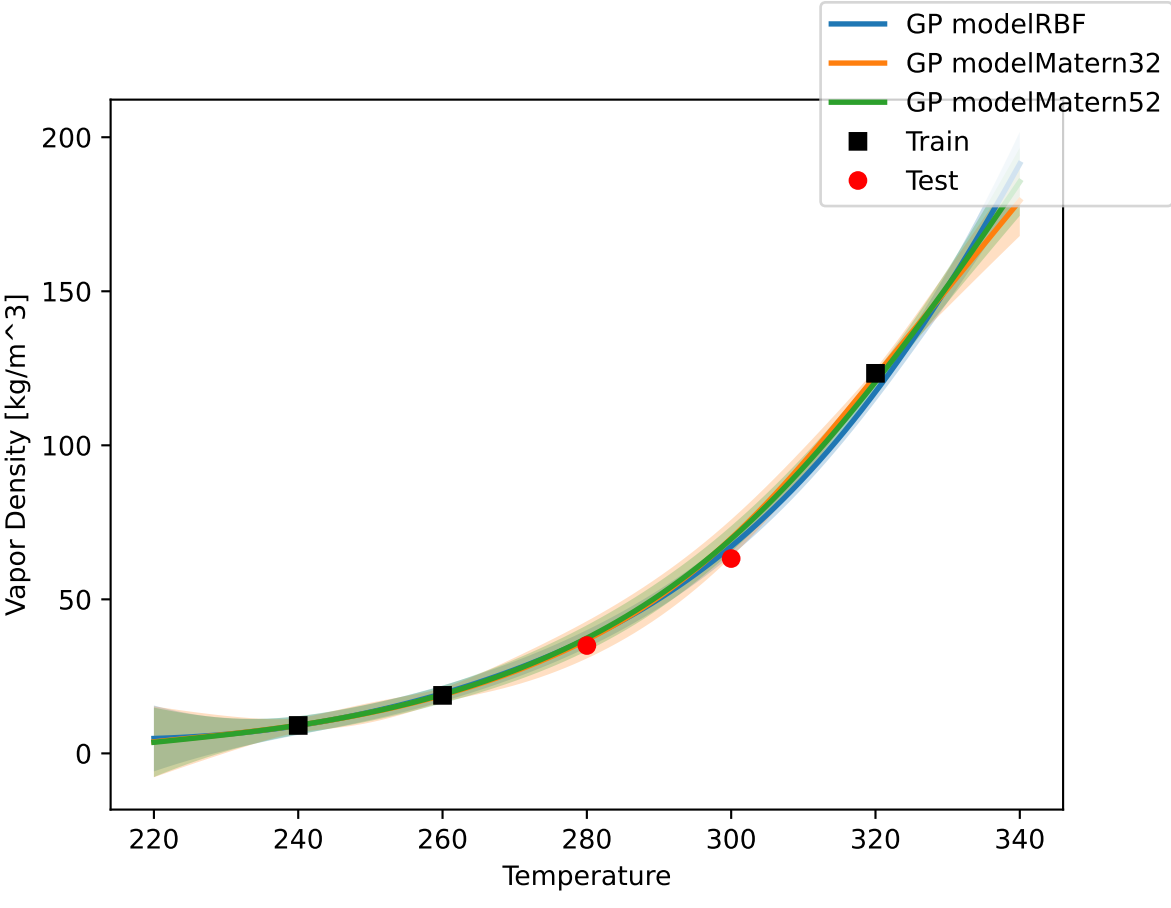
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
100
50
0
220
240
260
280
300
320
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
200
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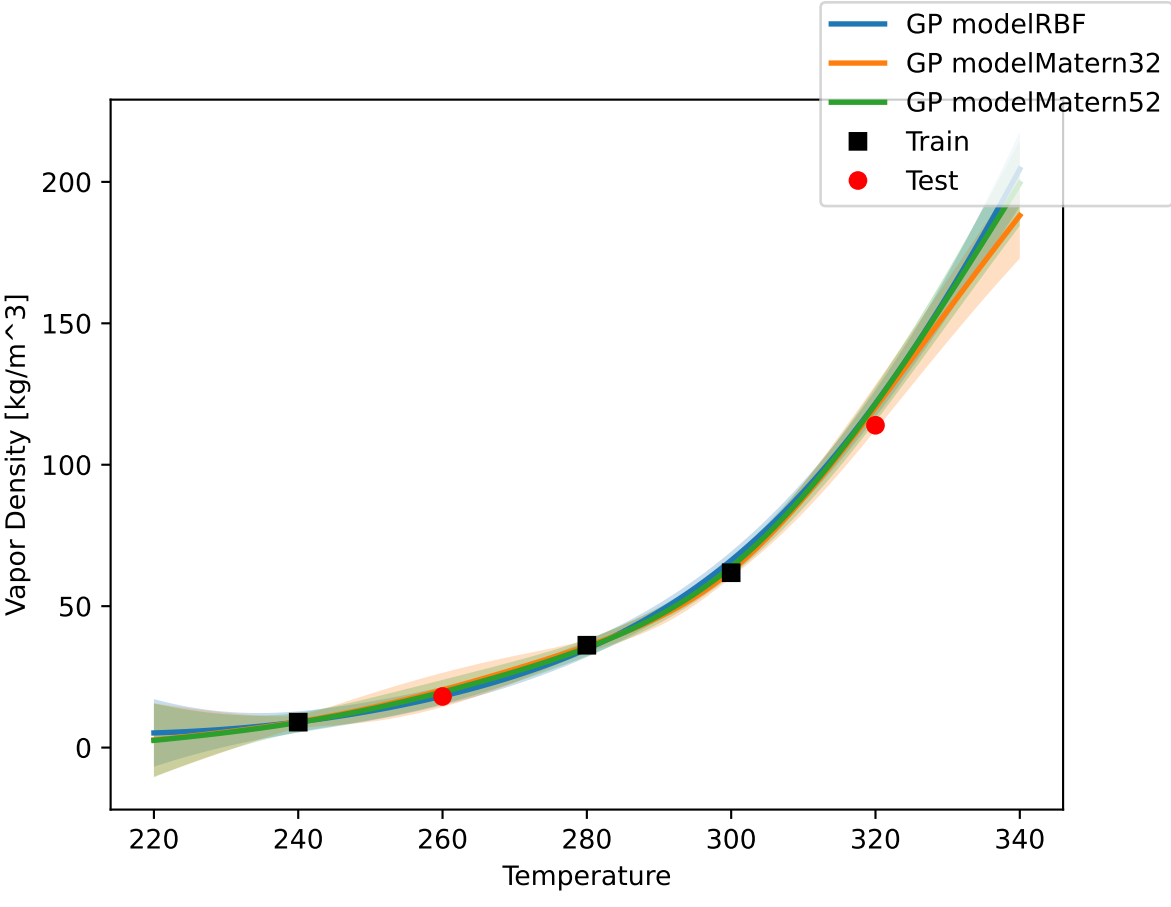
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
100
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0
220
240
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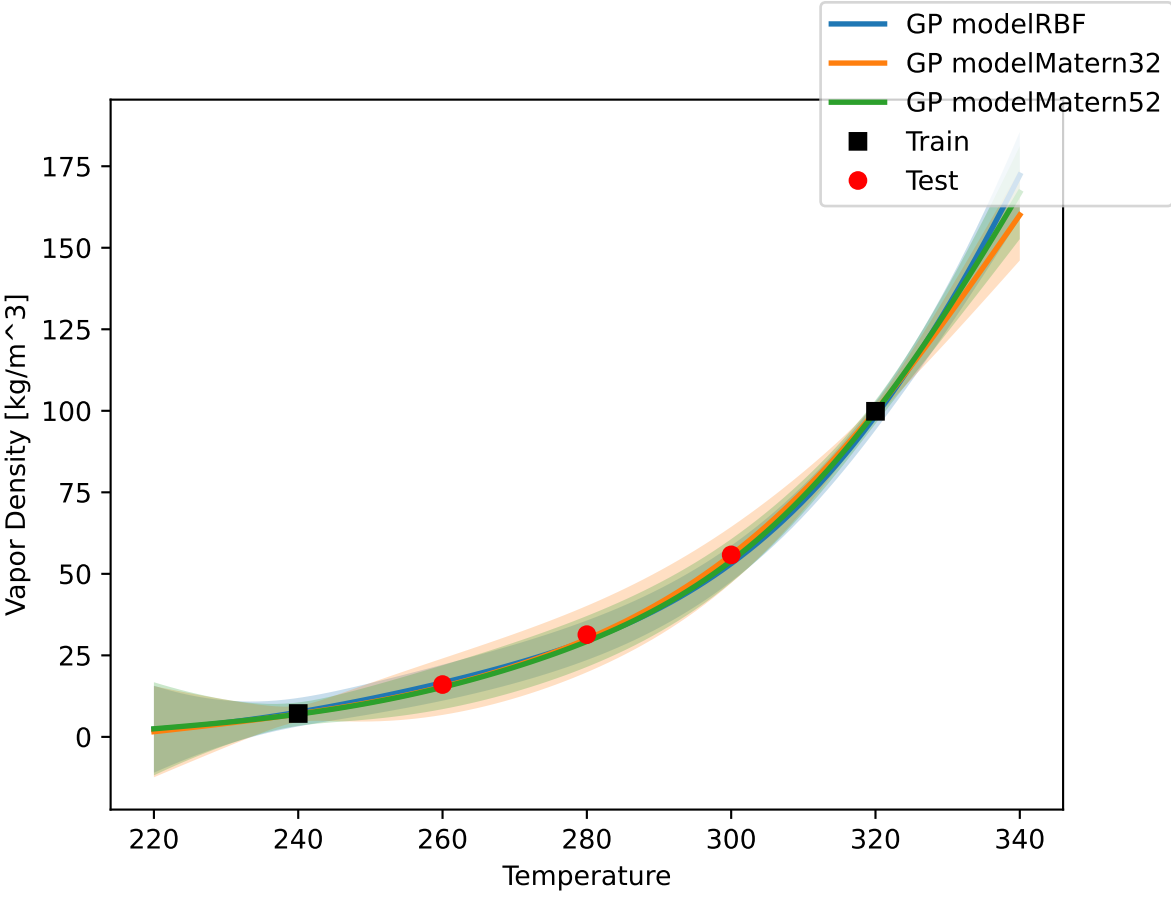
280
300
320
340
Temperature


GP modelRBF
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
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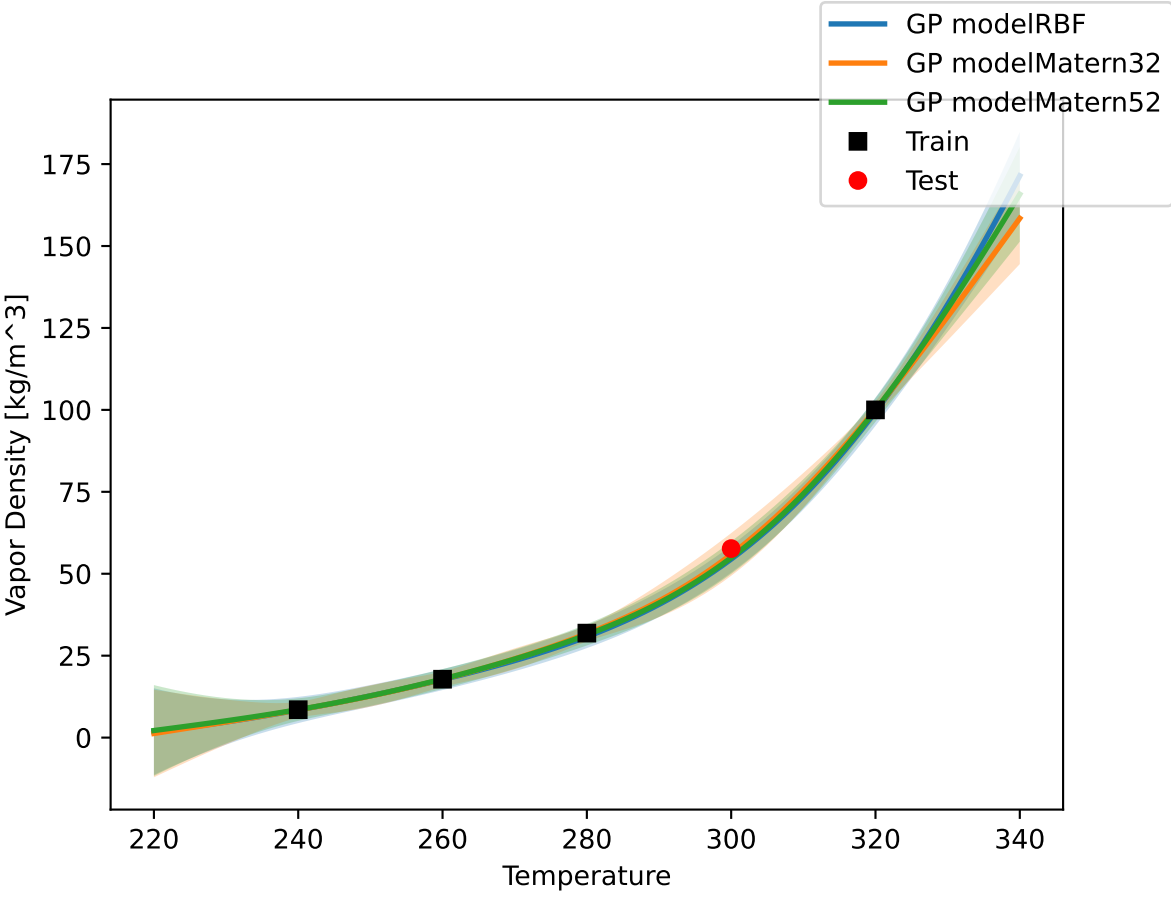
Temperature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GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
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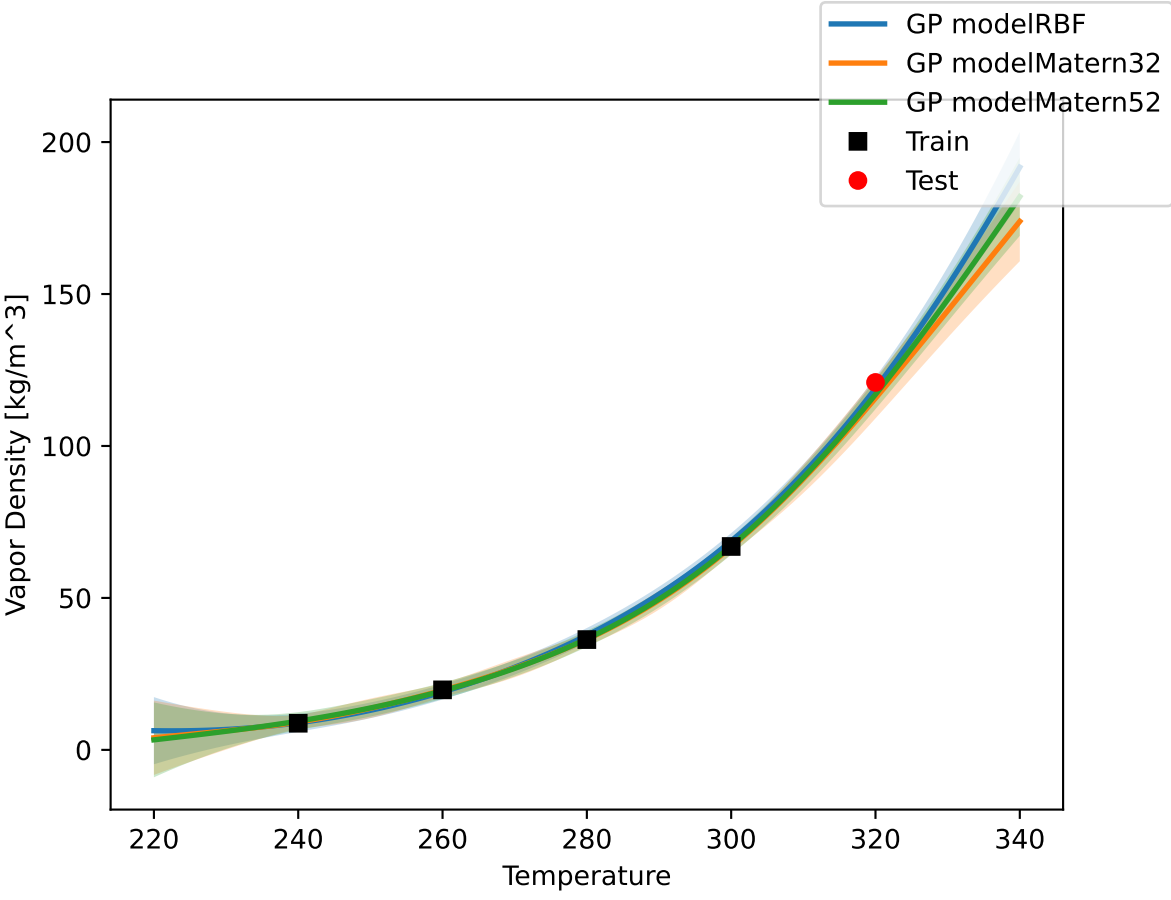
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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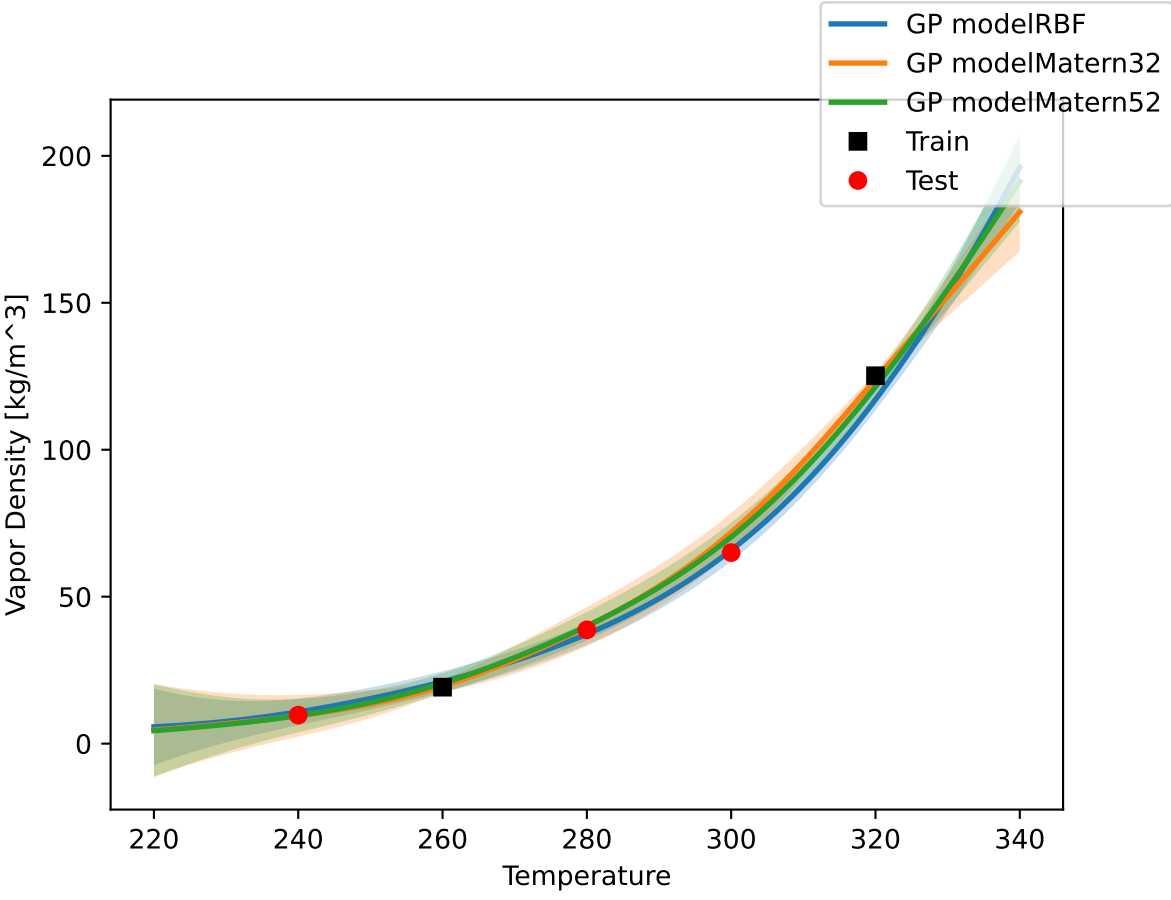
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
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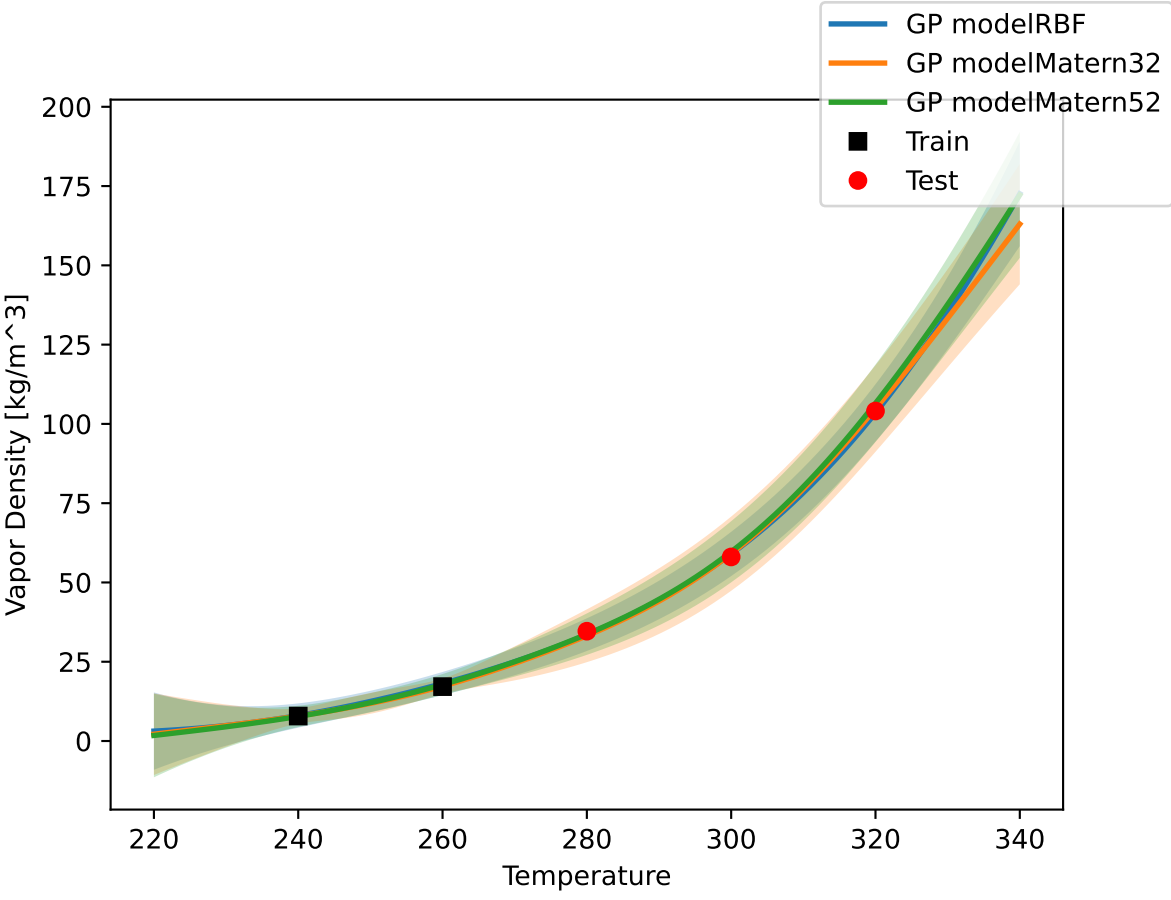
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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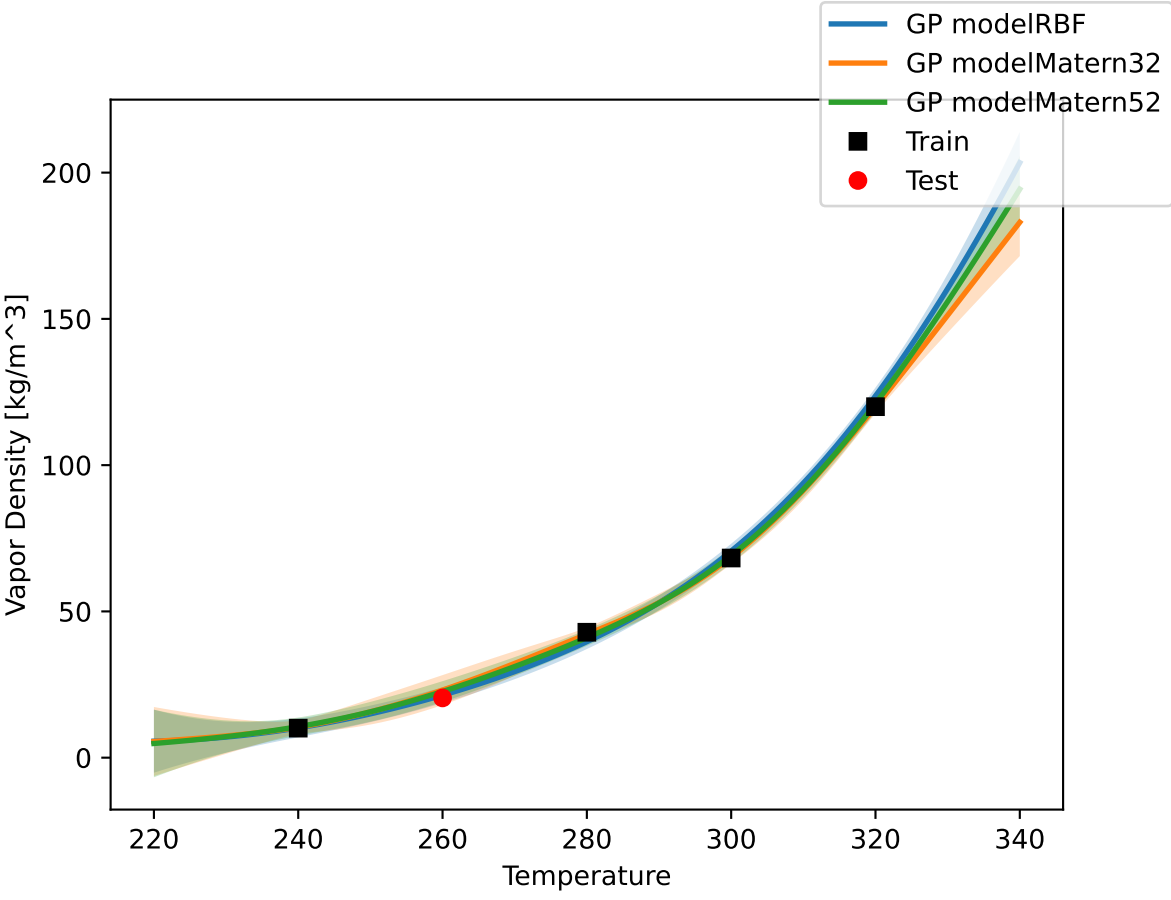
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
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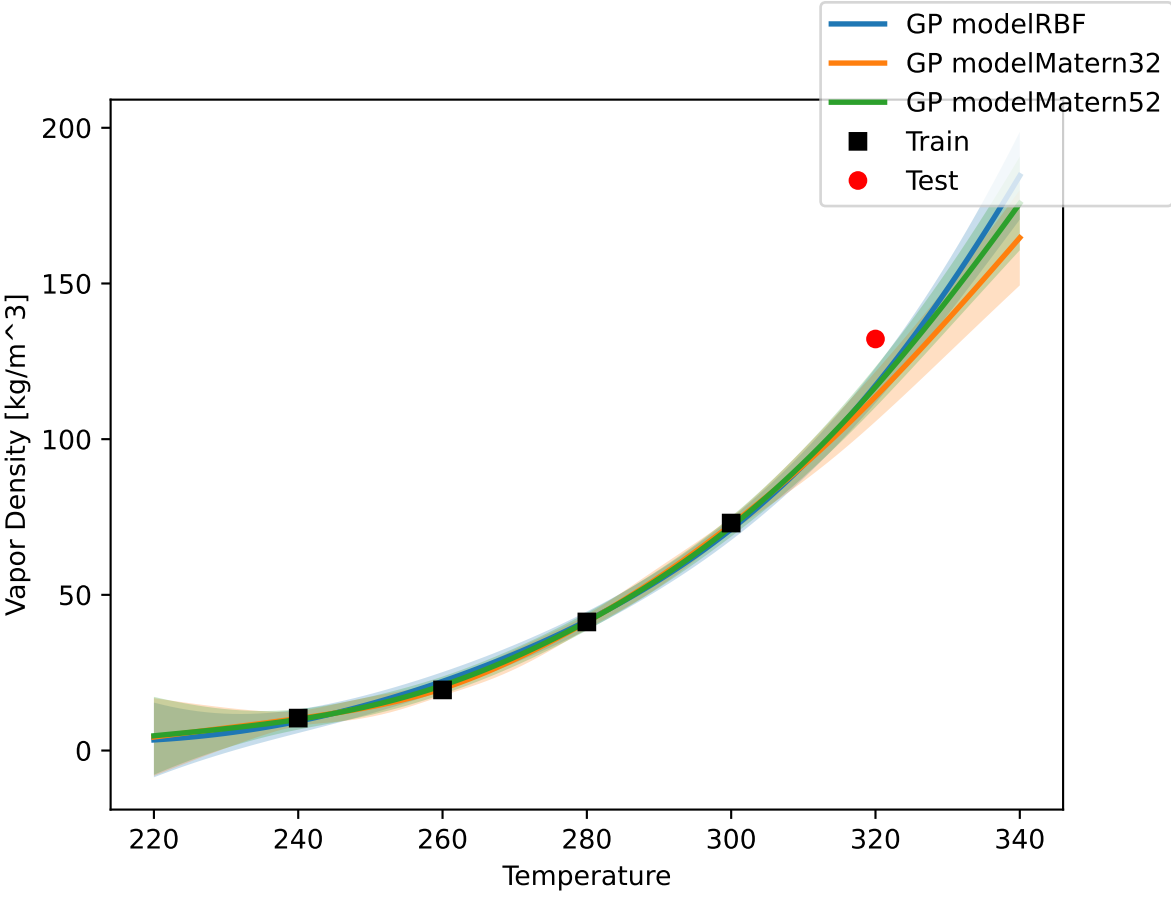
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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280
300
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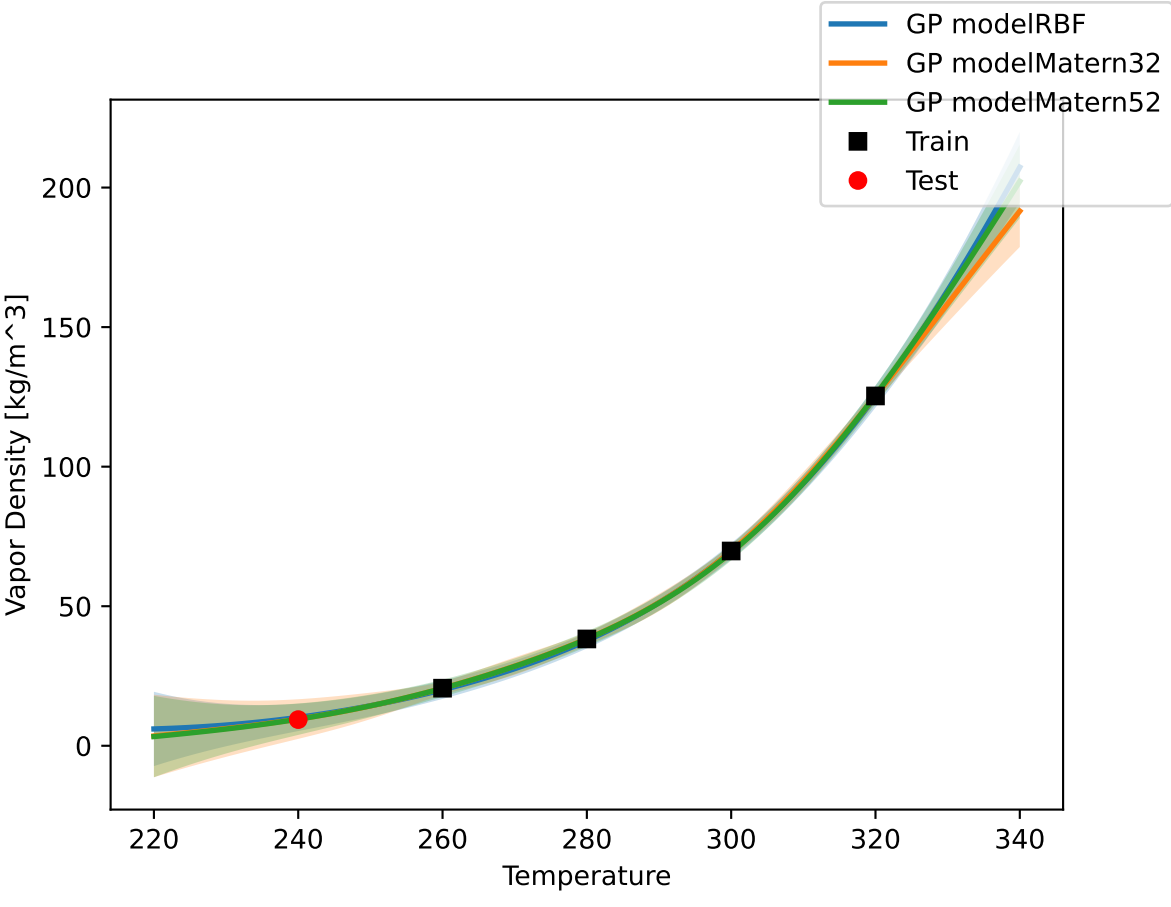
340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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
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300
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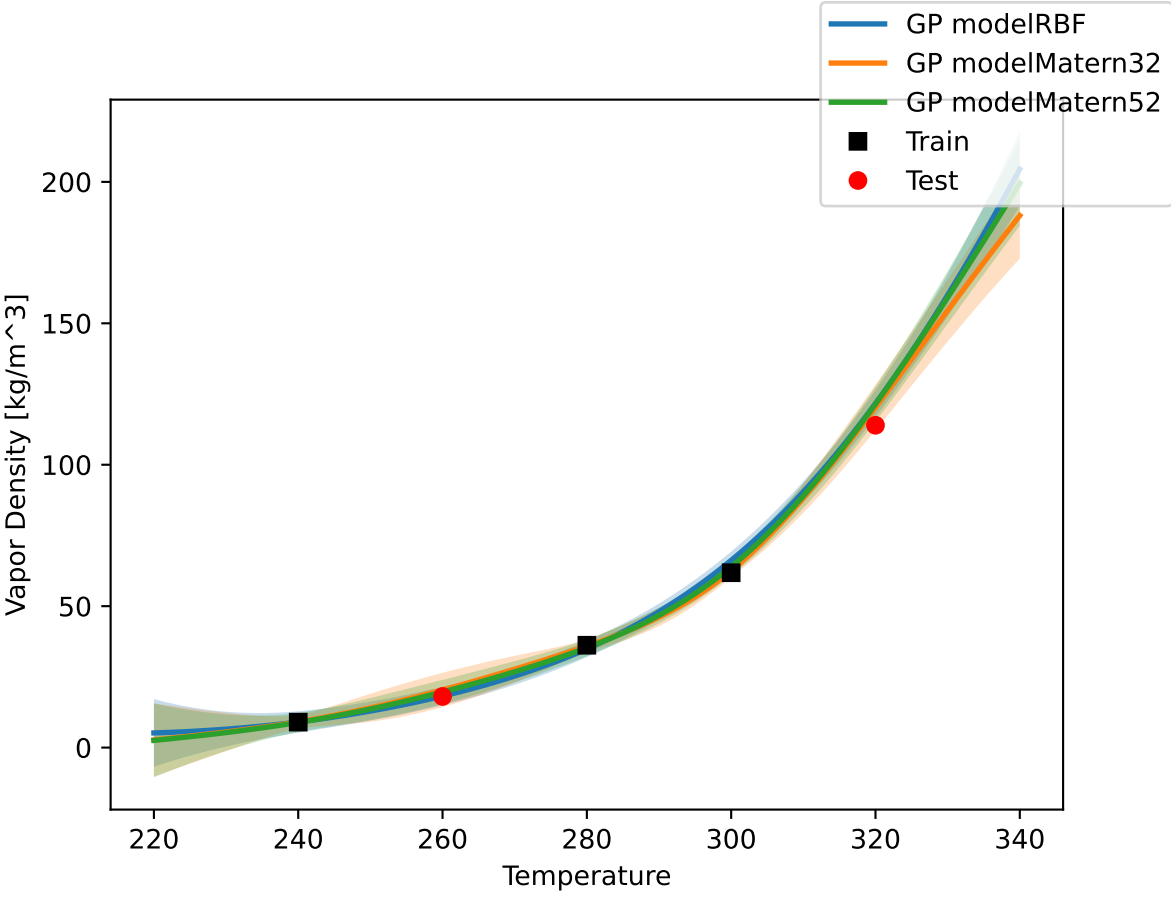
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
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260
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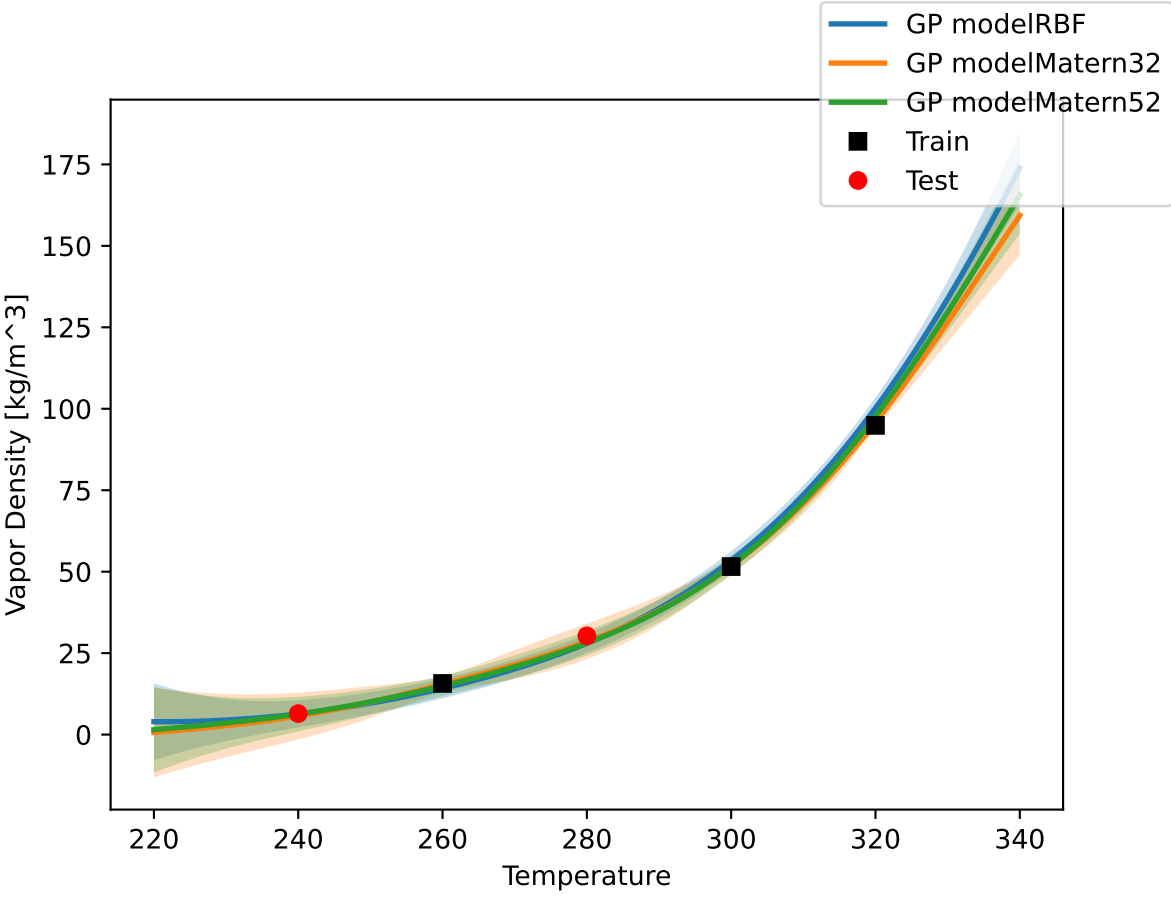
300
320
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
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300
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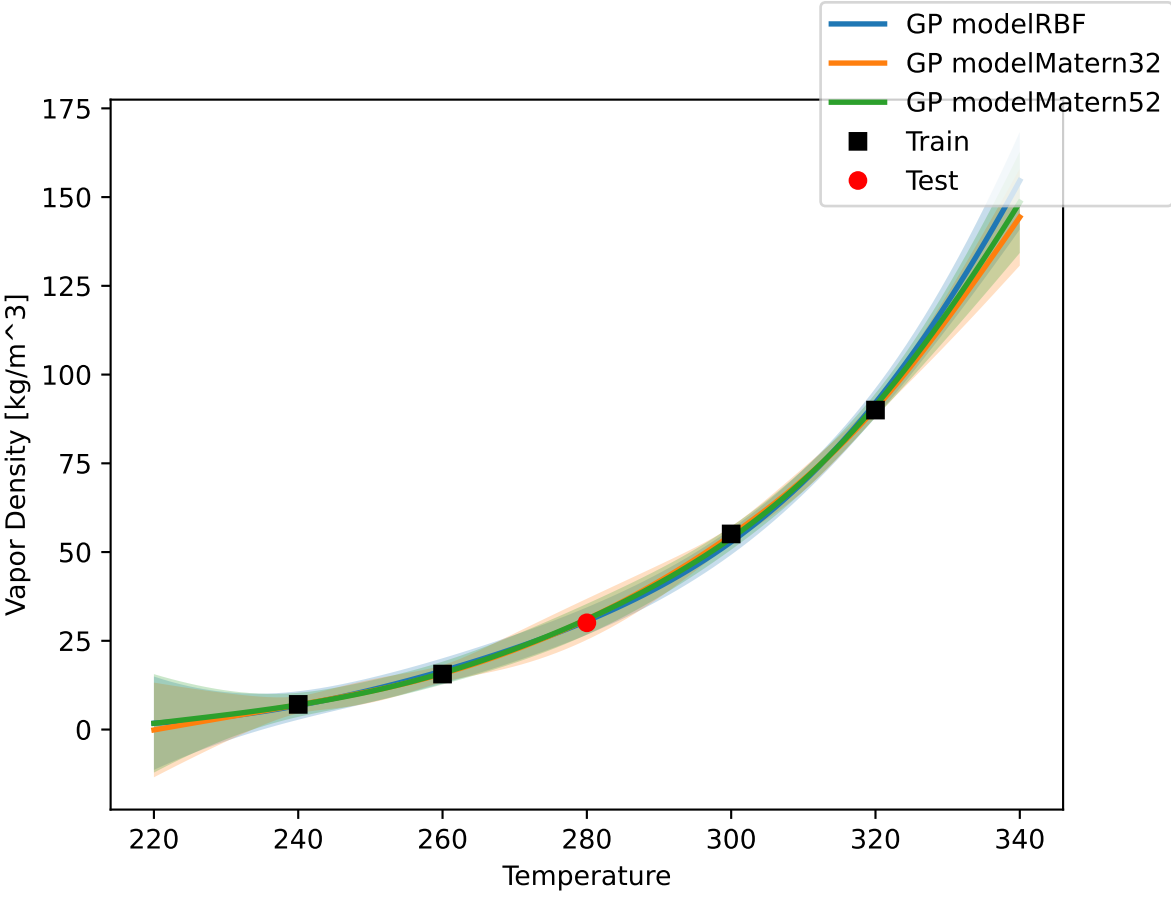
340
Temperature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GP modelMatern52
Train
Test
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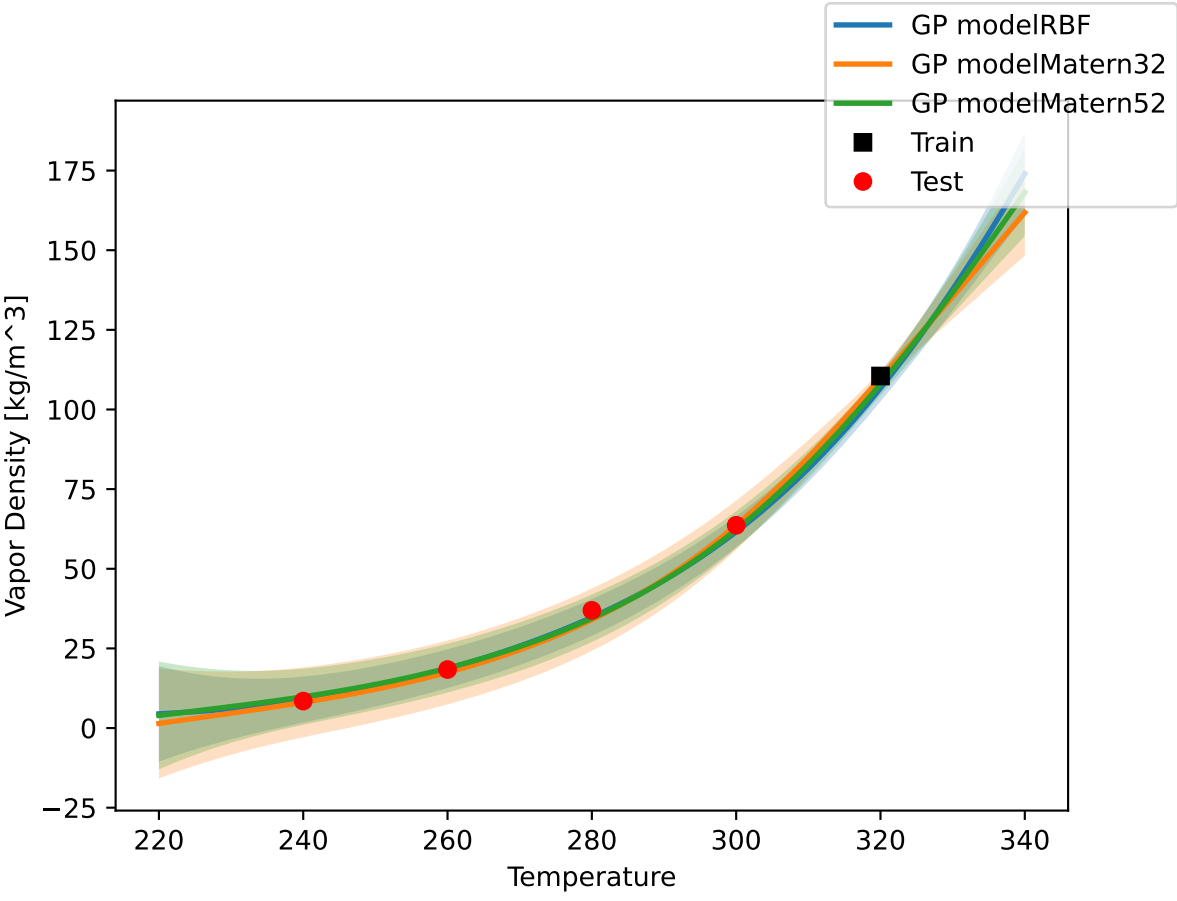
0
Vapor Density [kg/m^3]
220
240
260
280
300
320
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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100
75
50
25
0
−25
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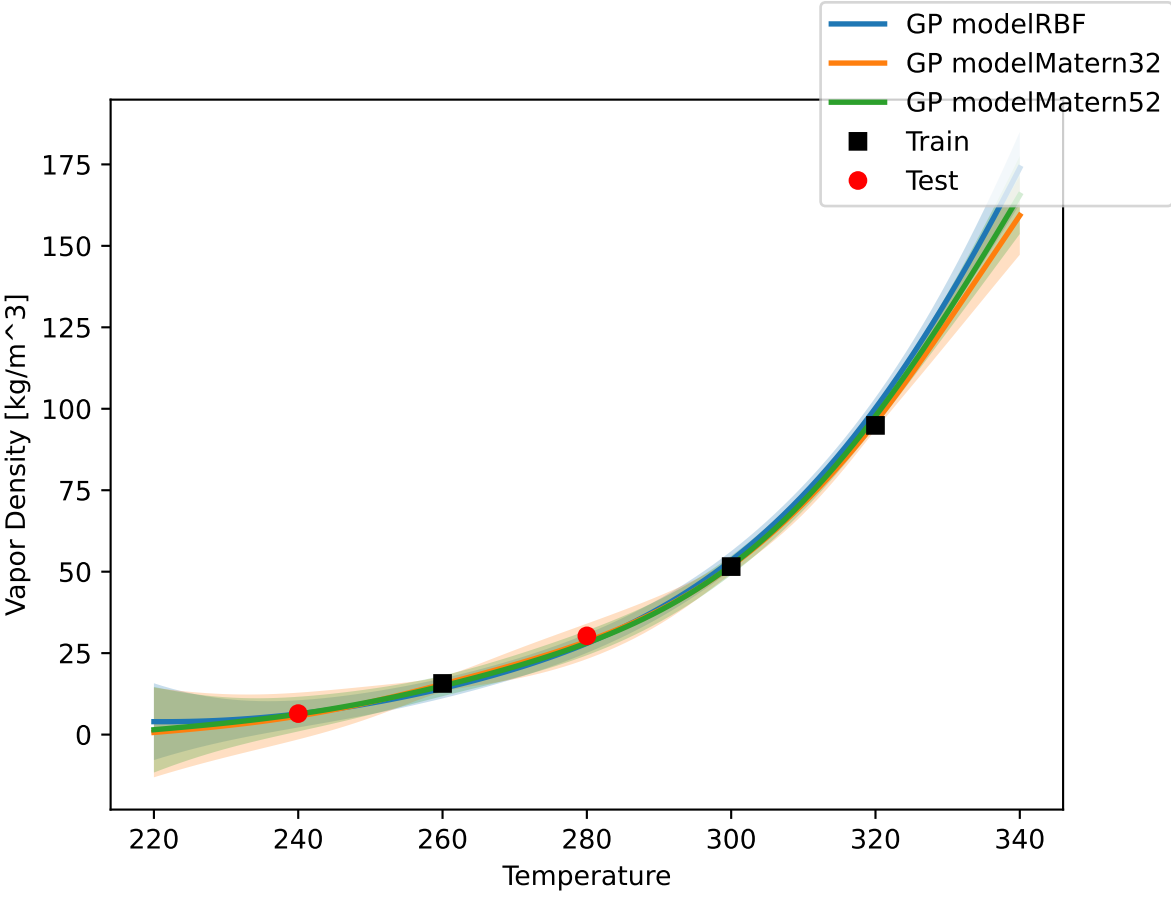
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
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260
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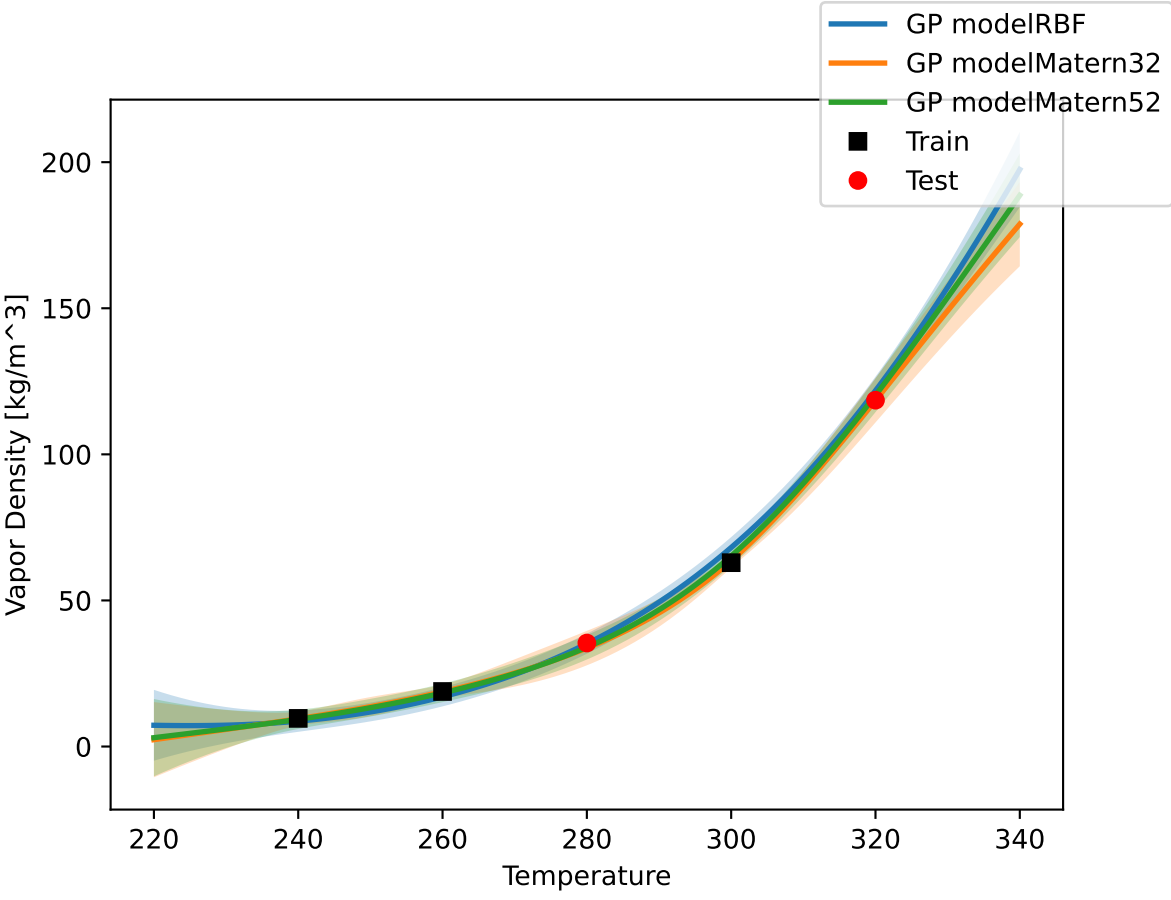
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
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300
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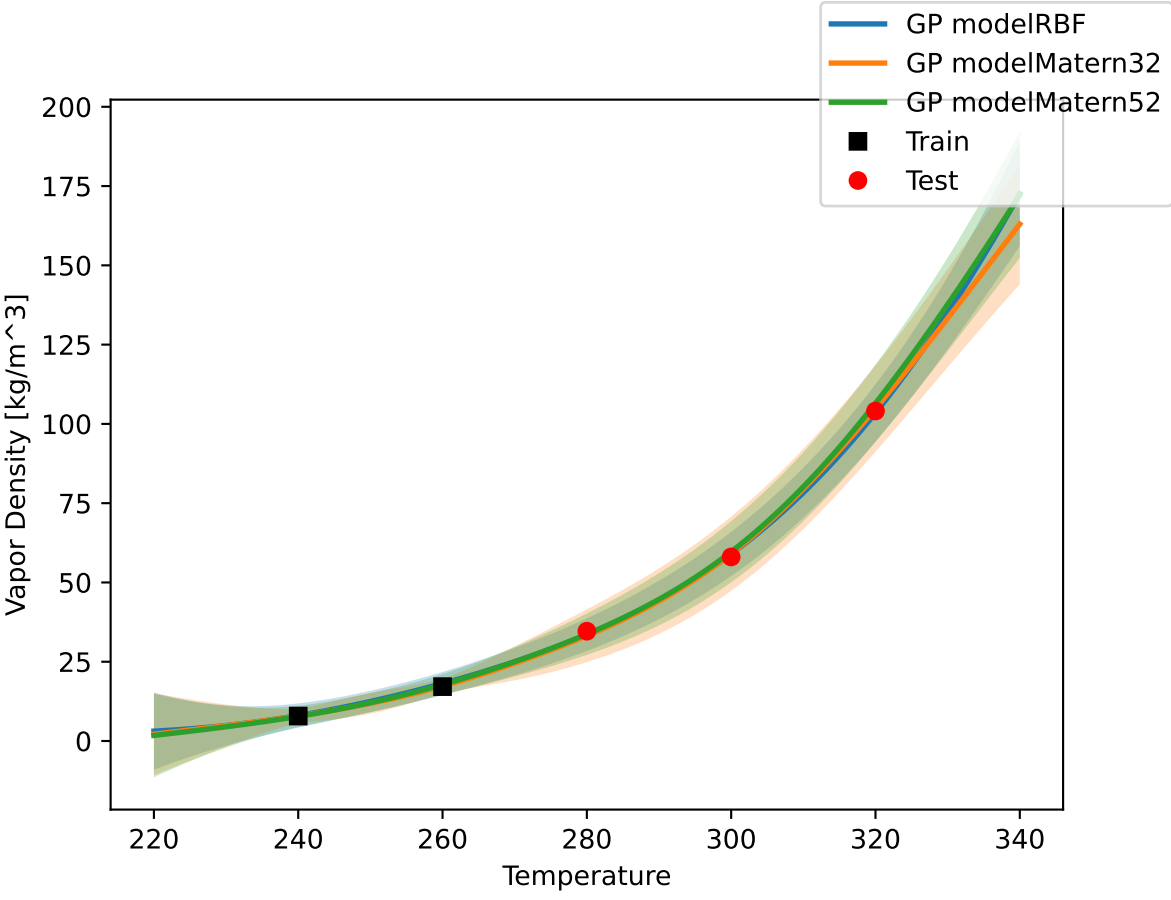
340
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
200
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150
125
100
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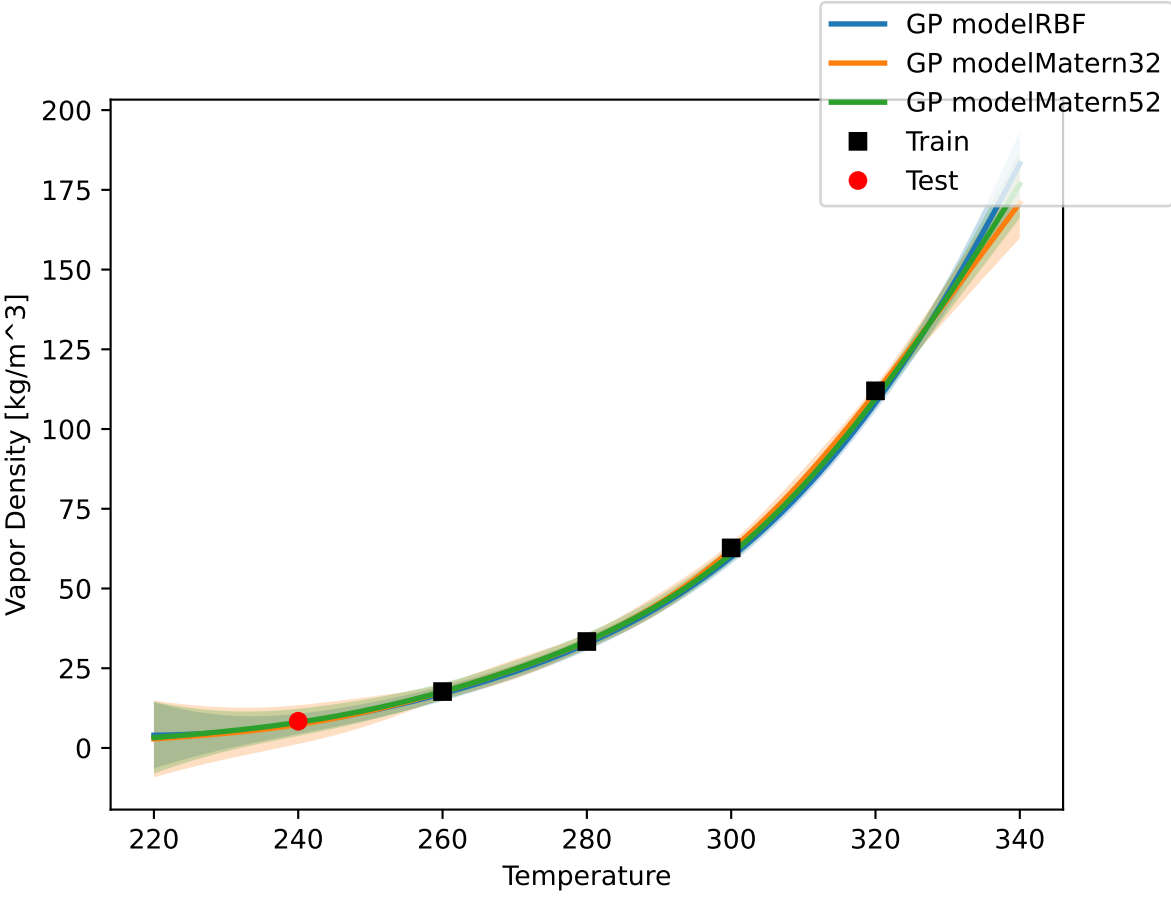
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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175
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100
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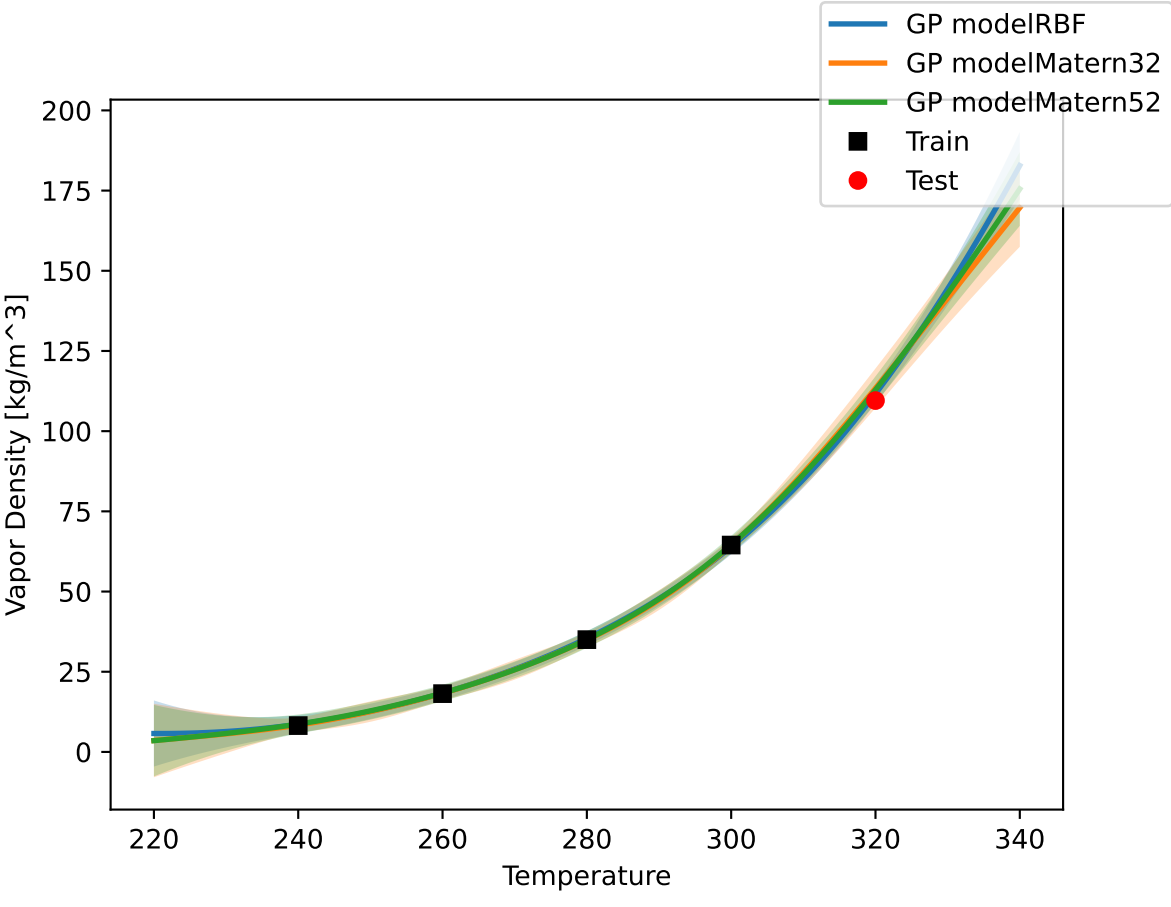
GP modelRBF
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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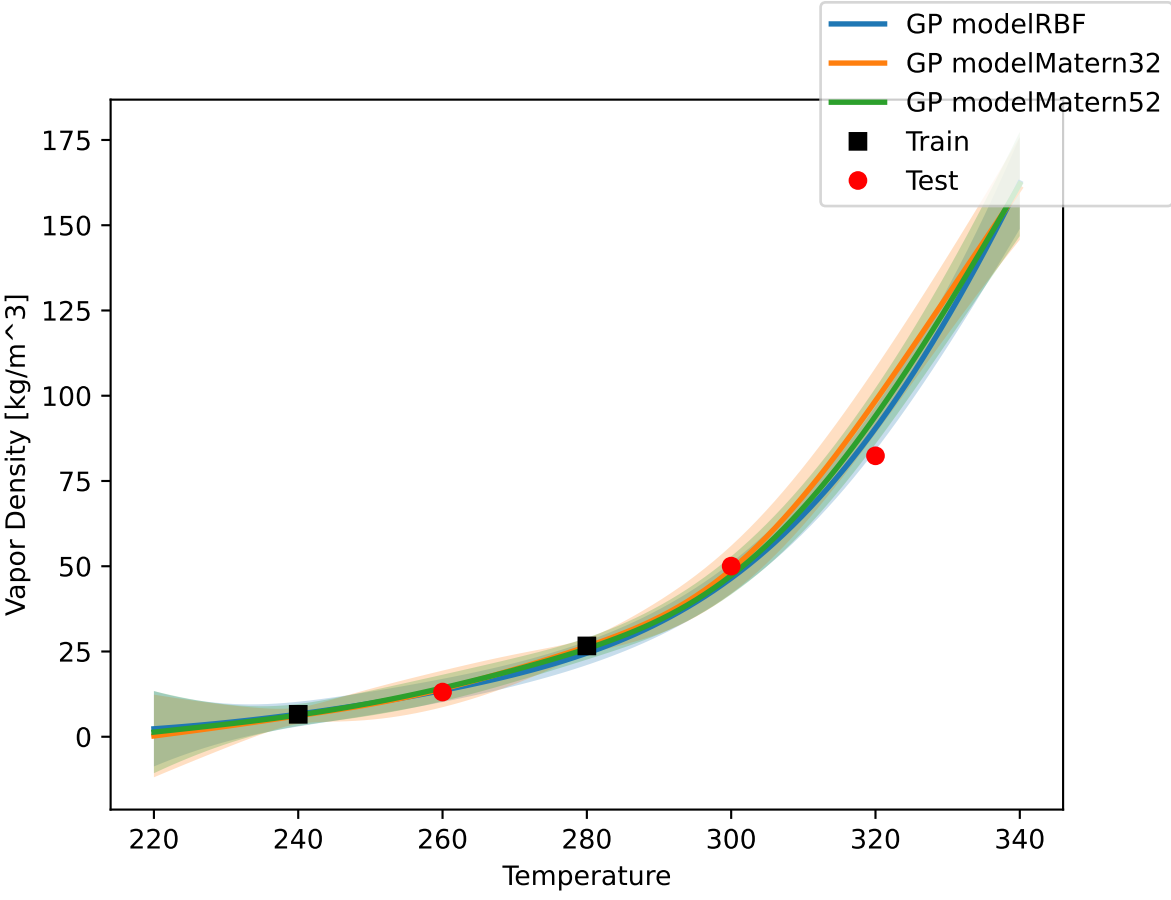
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
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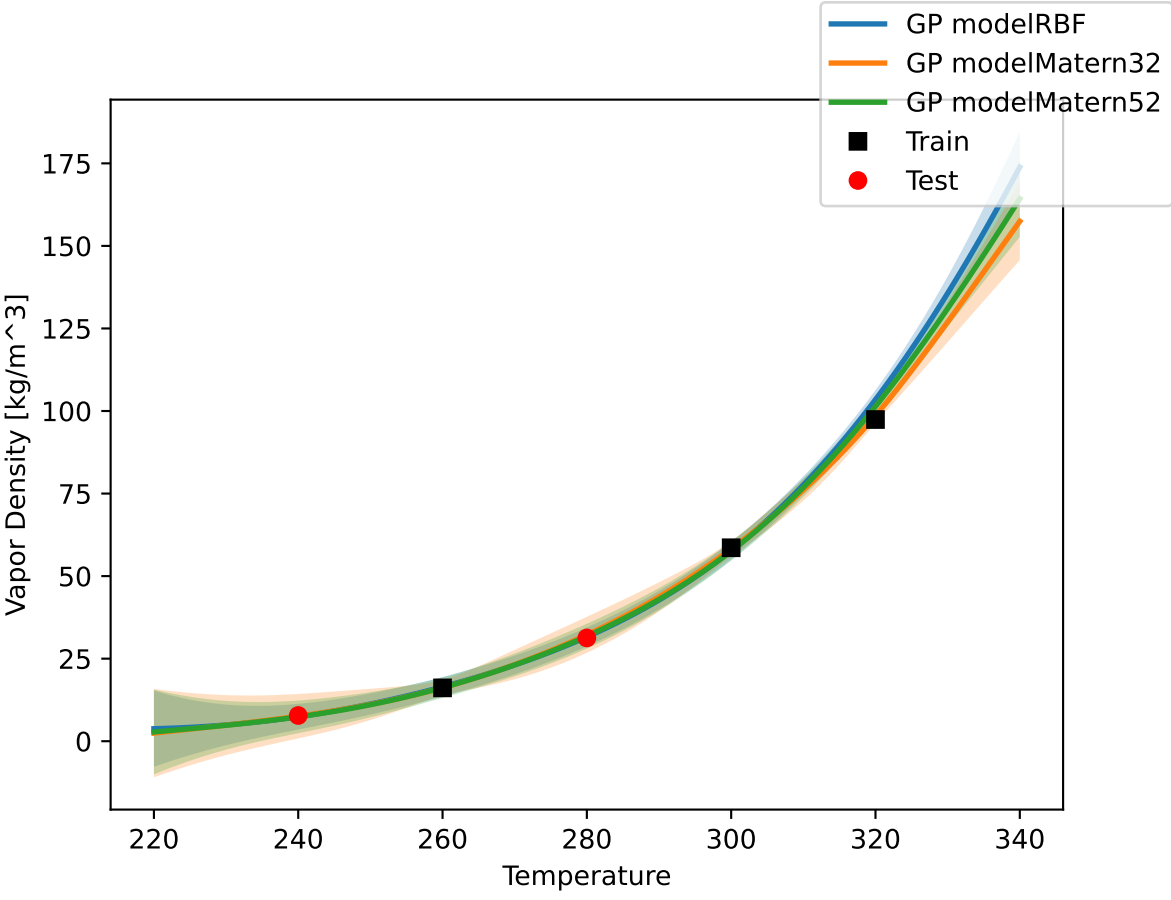
Temperature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Train
Test
Vapor Density [kg/m^3]
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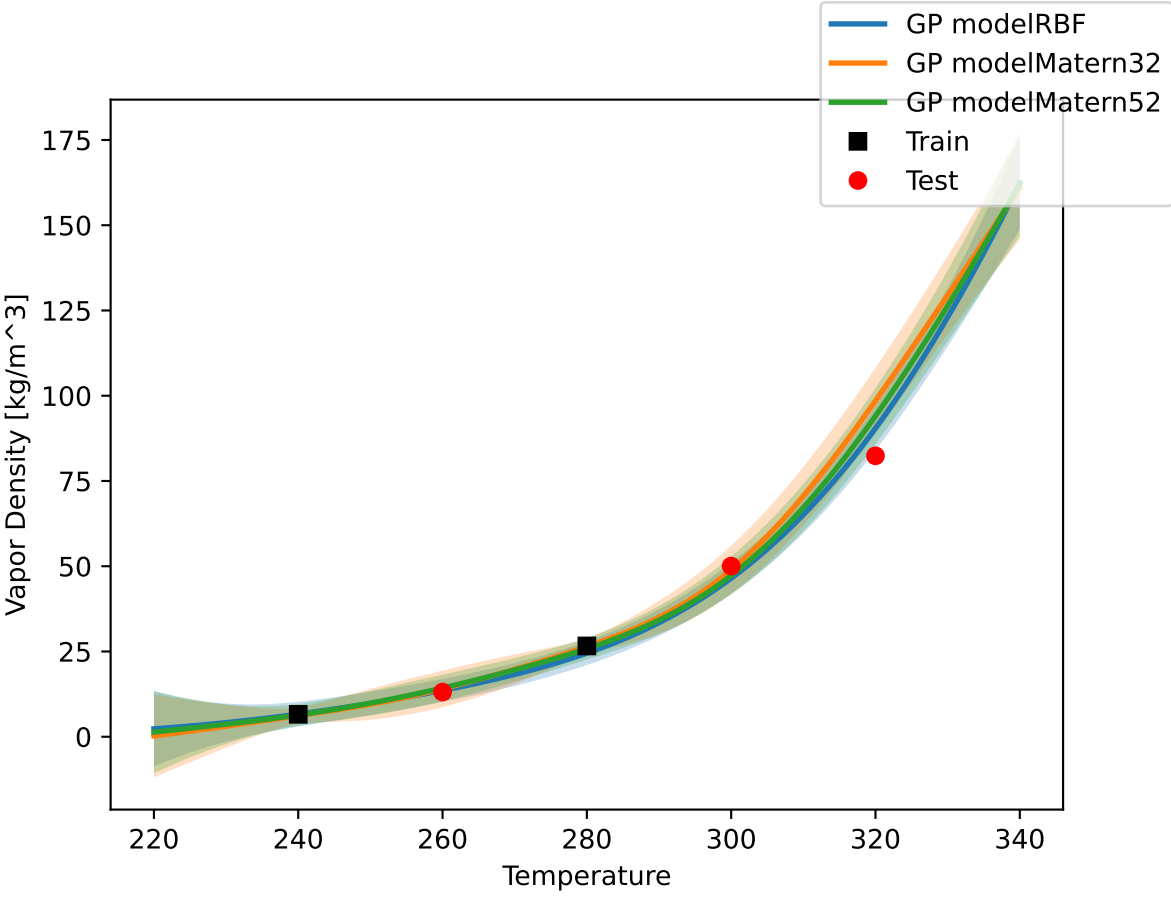
Temperature


GP modelRBF
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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
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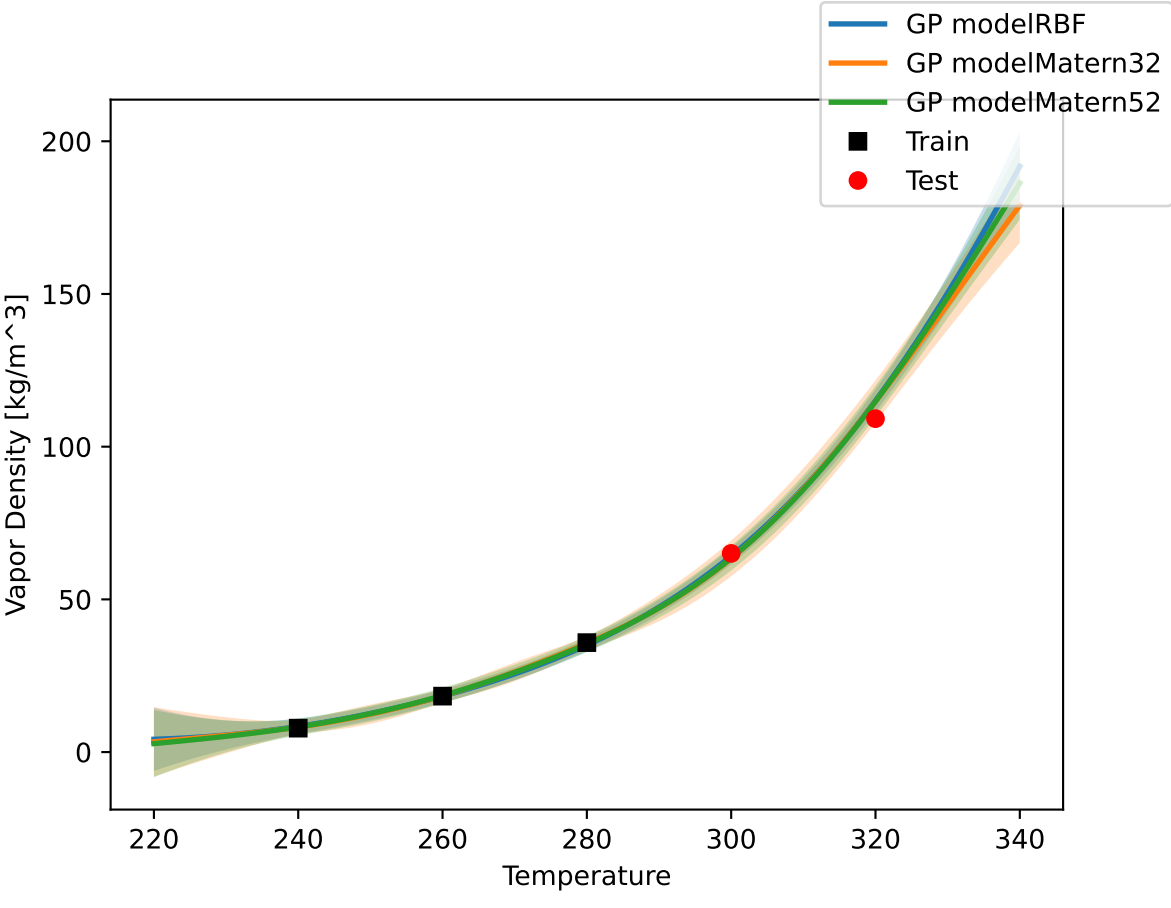
Temperature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GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
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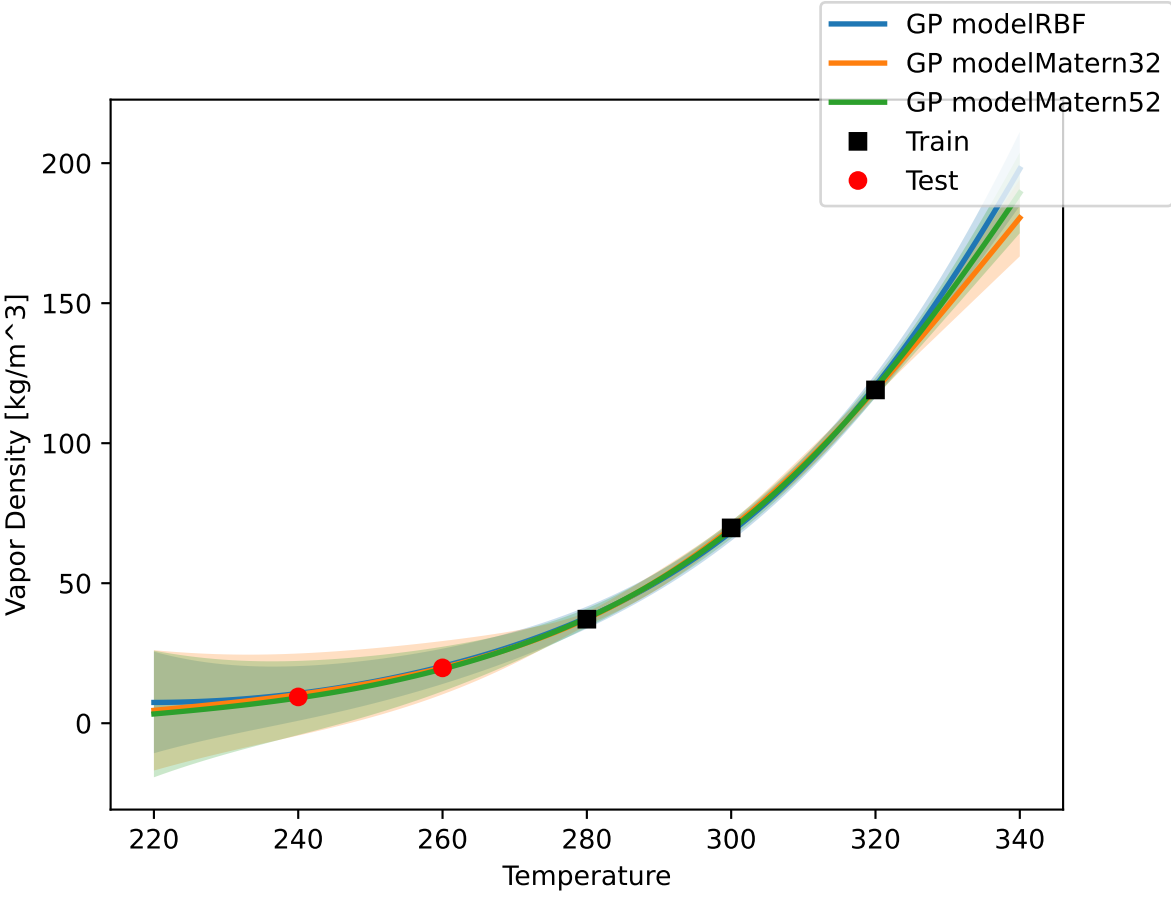
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GP modelMatern52
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Vapor Density [kg/m^3]
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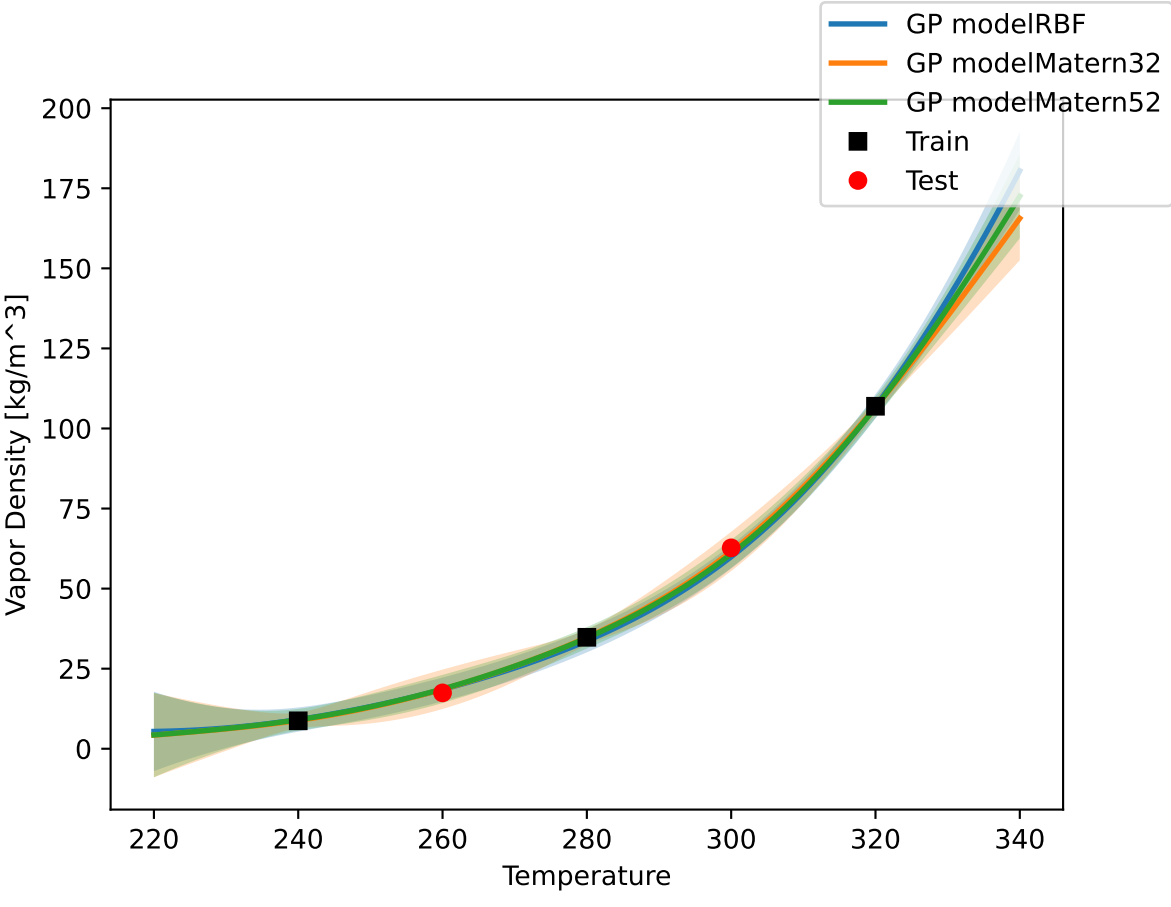
Temperature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Test
Vapor Density [kg/m^3]
Temperature
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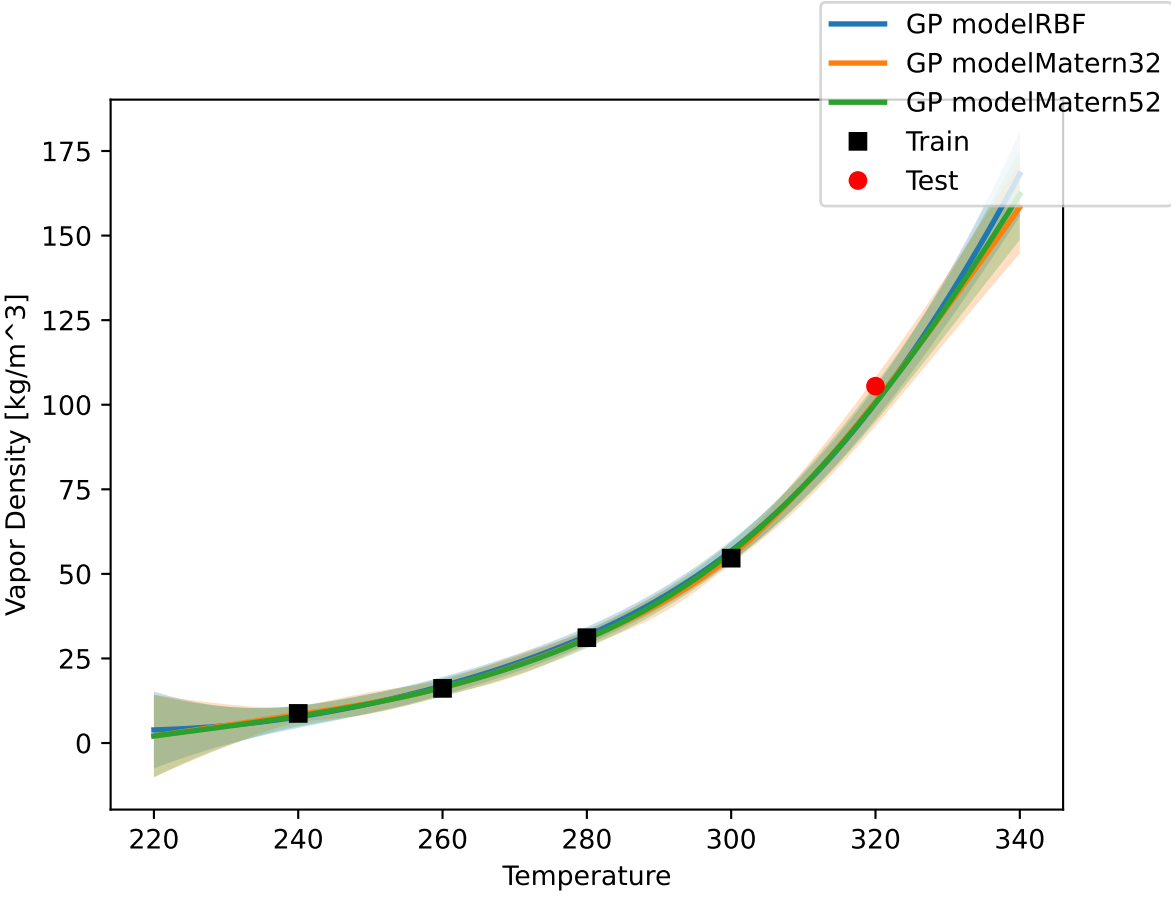
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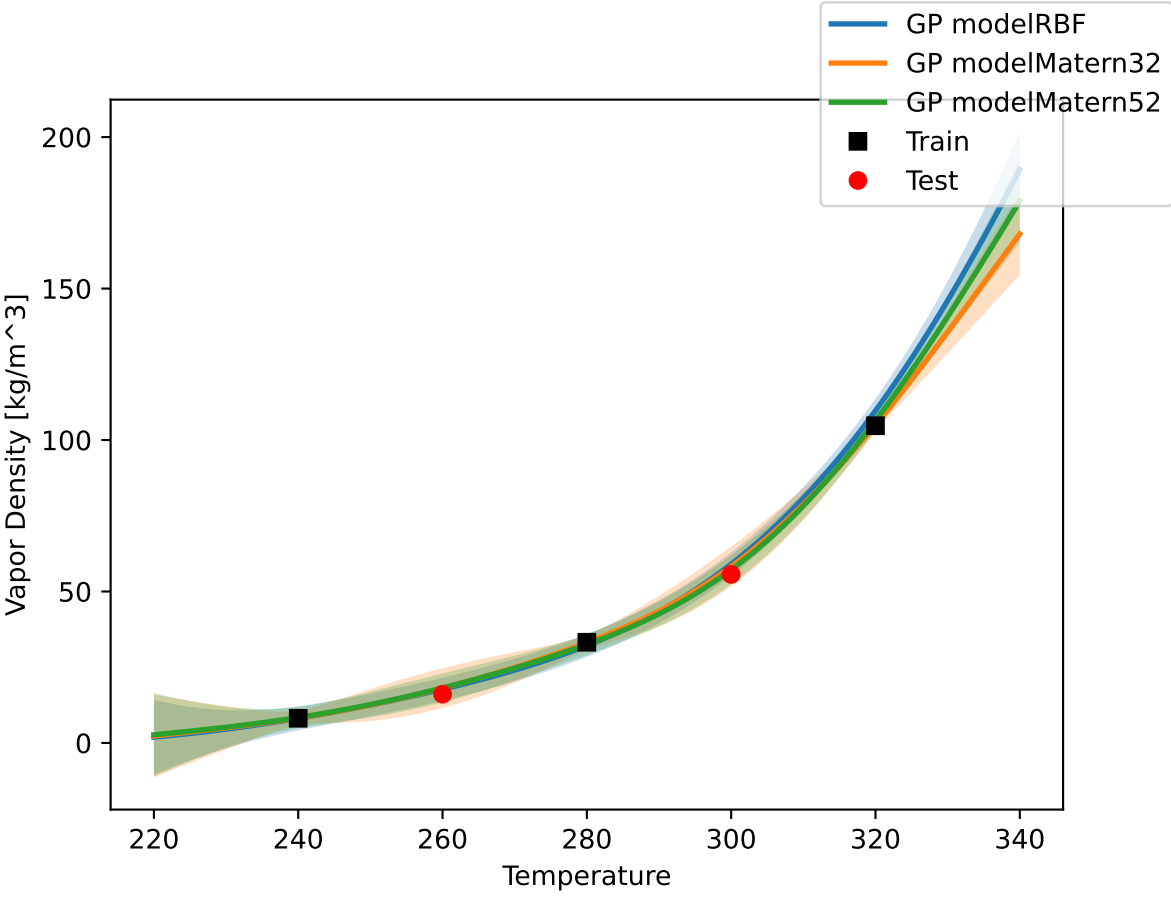
Temperature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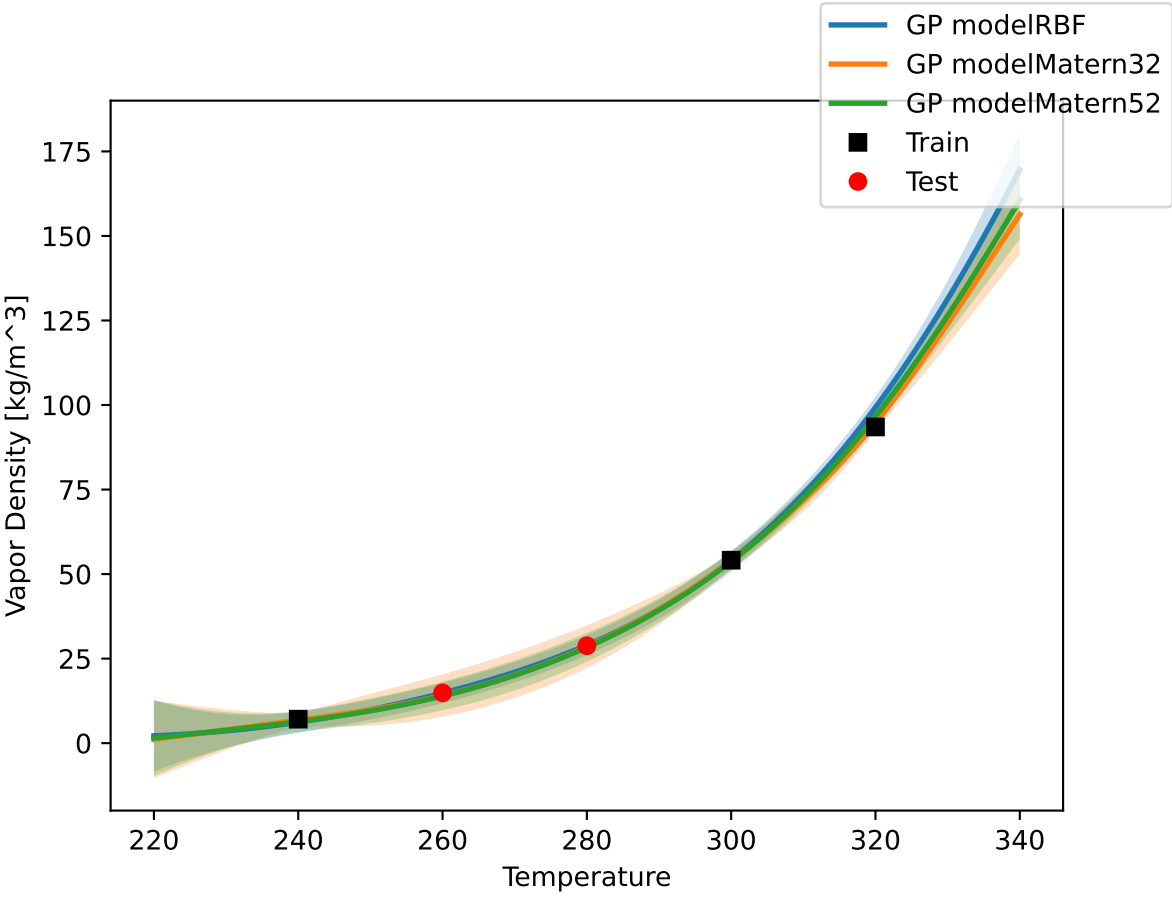
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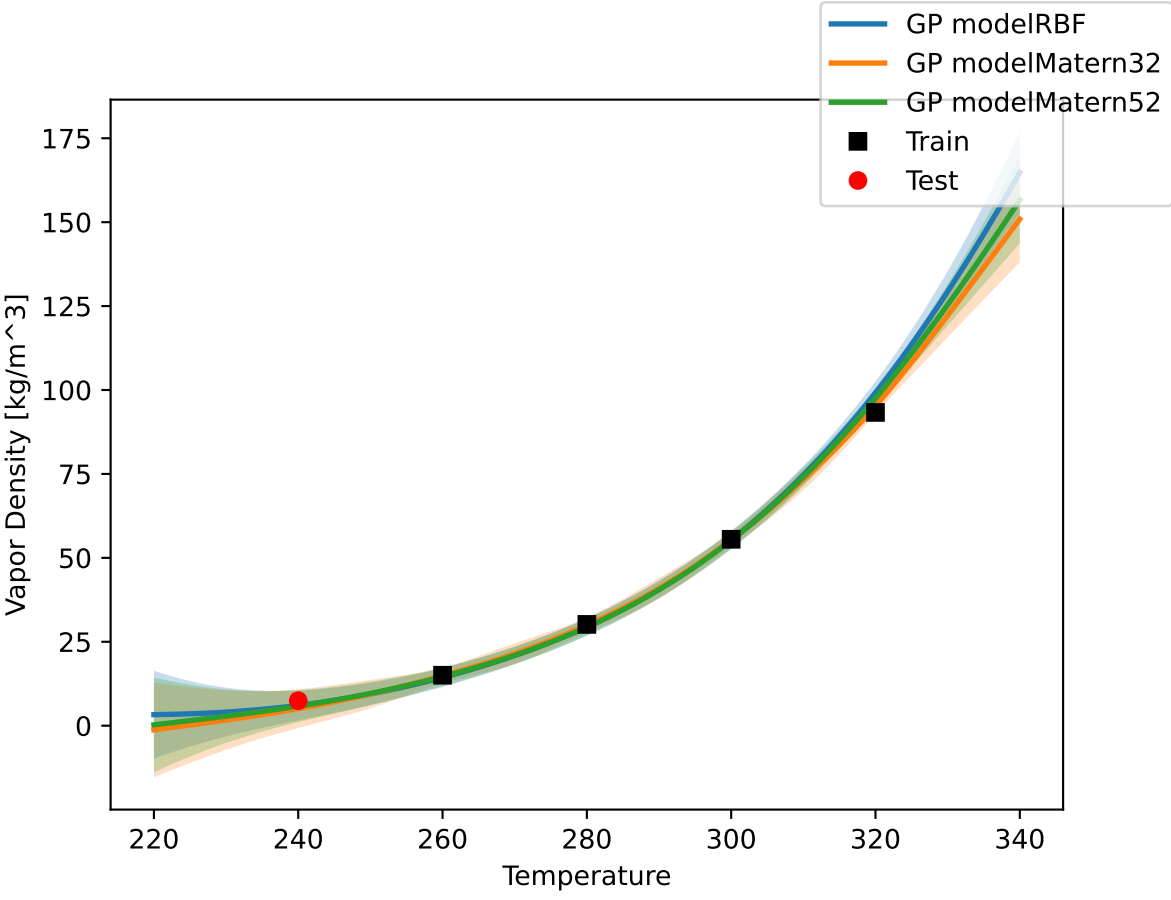
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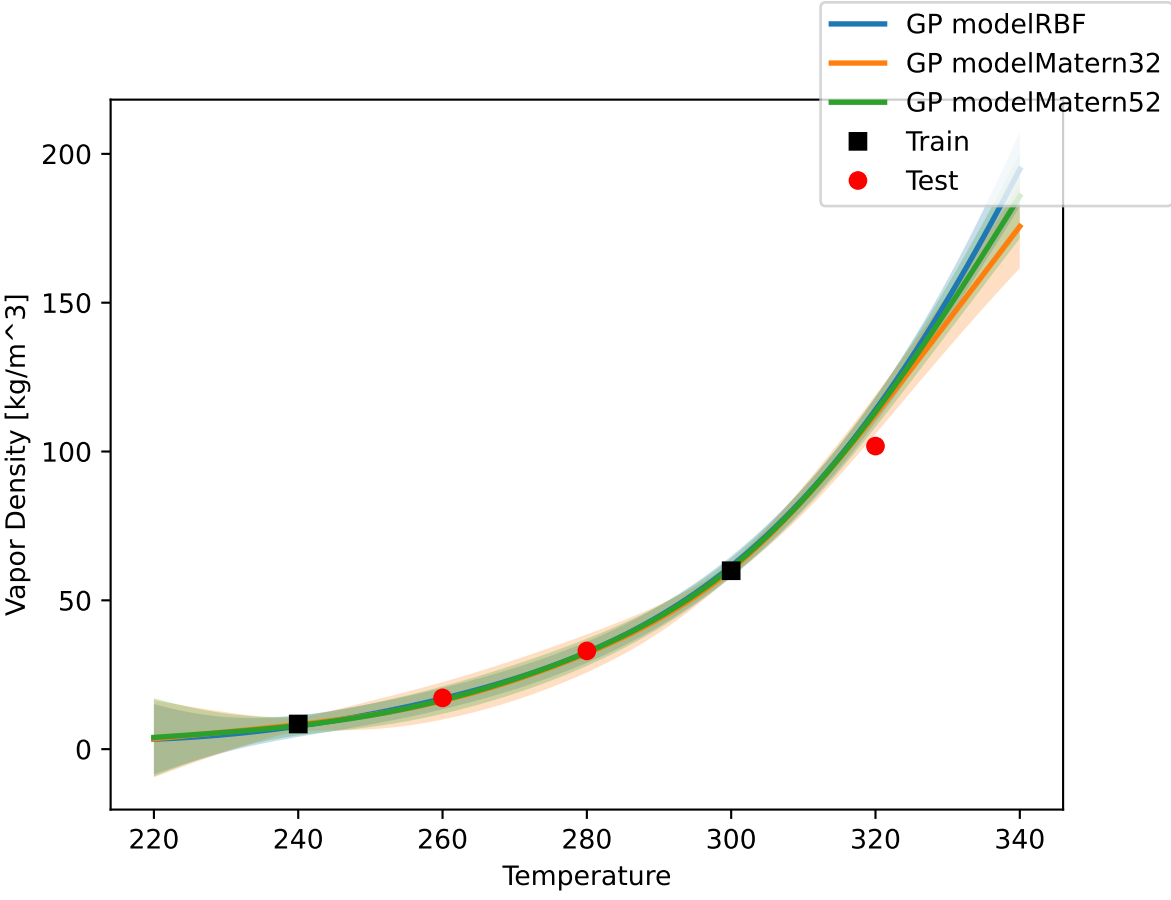
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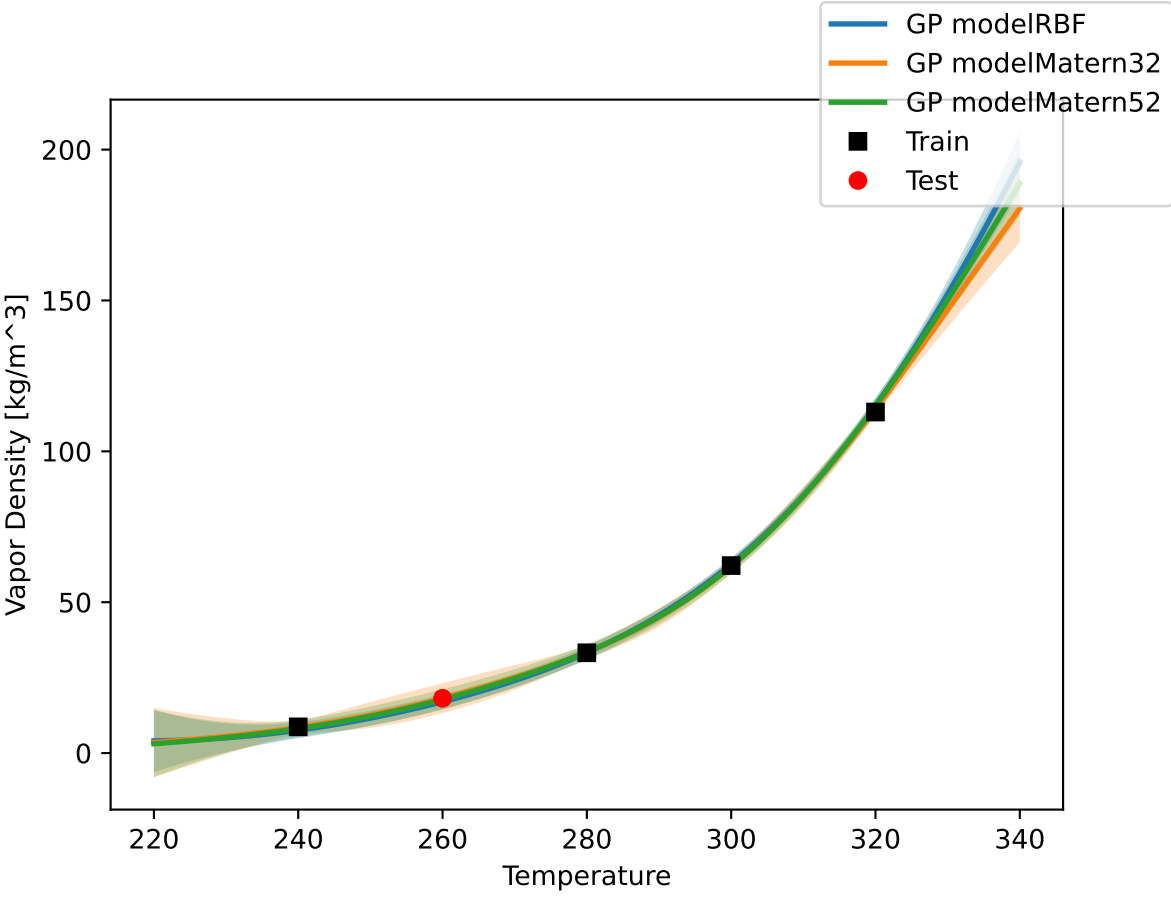
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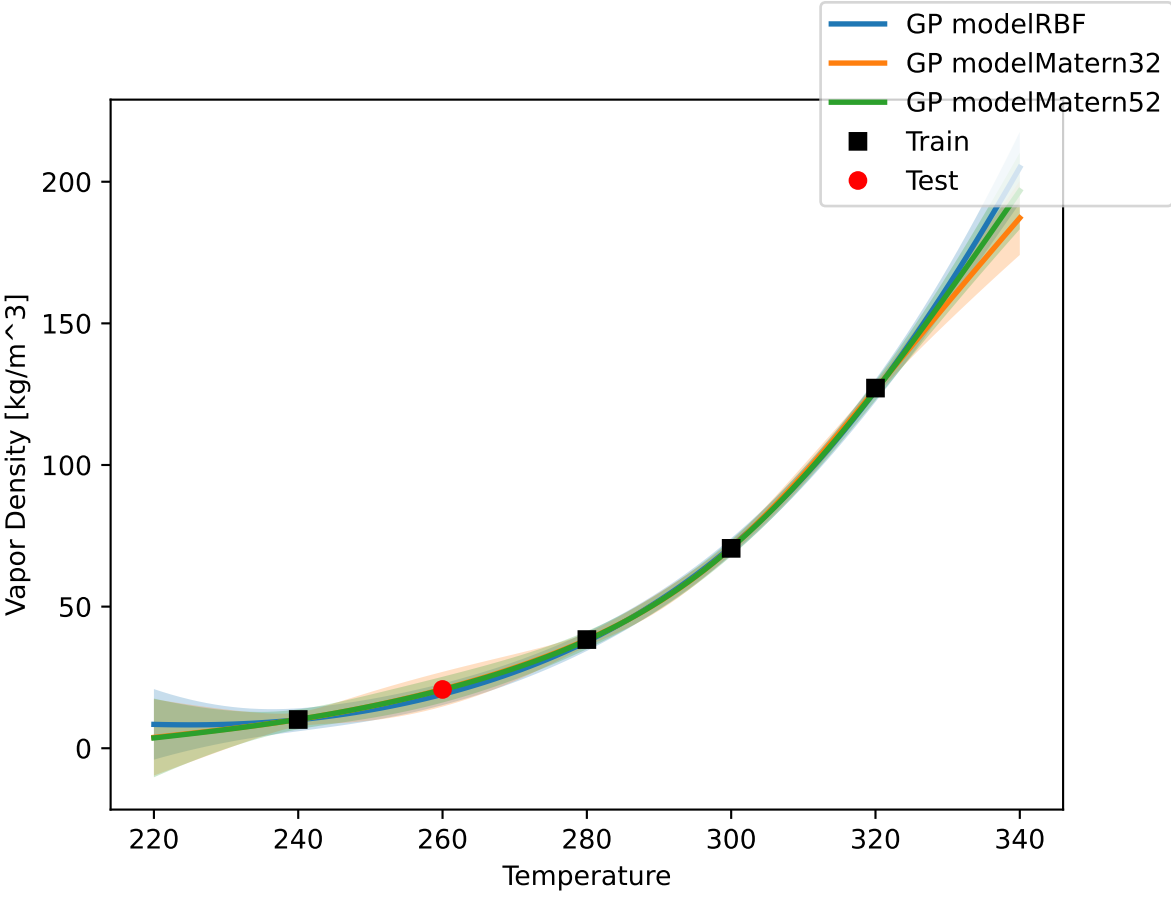
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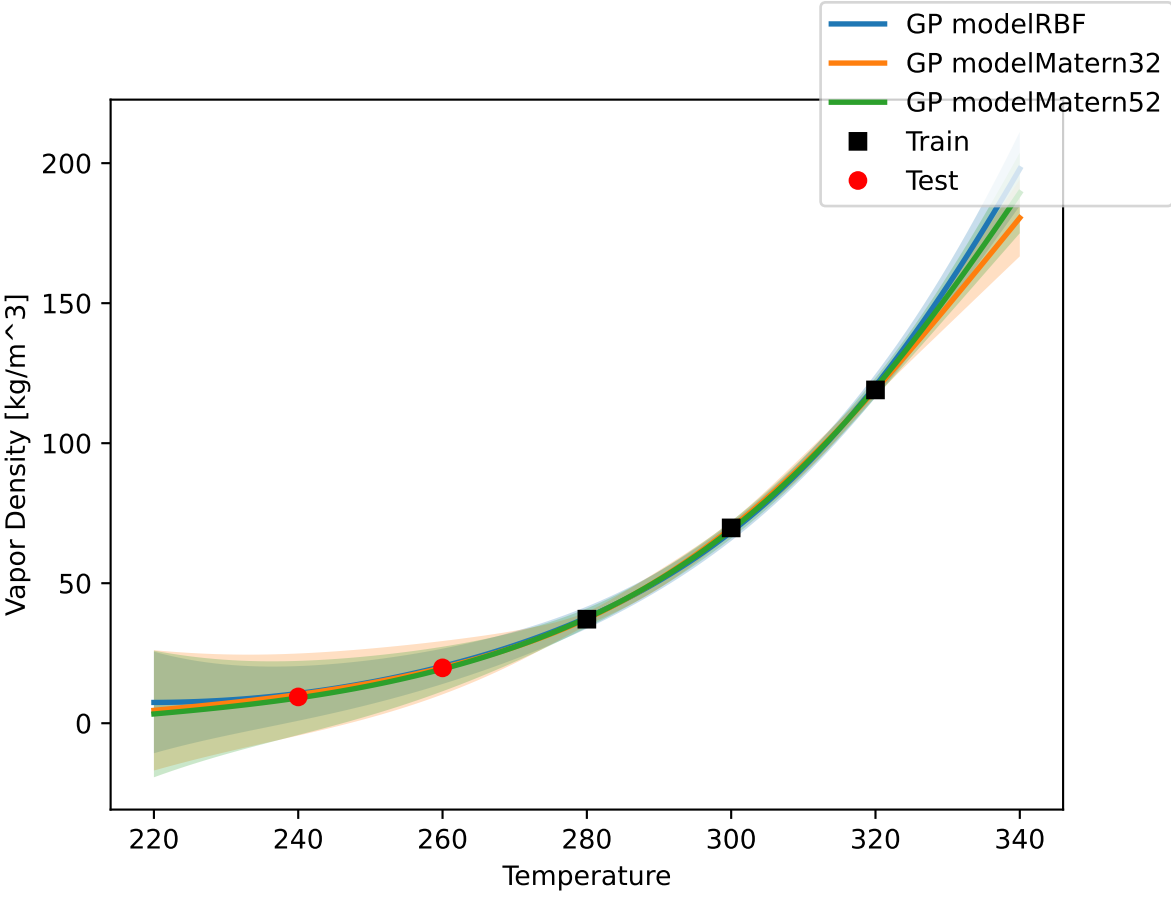
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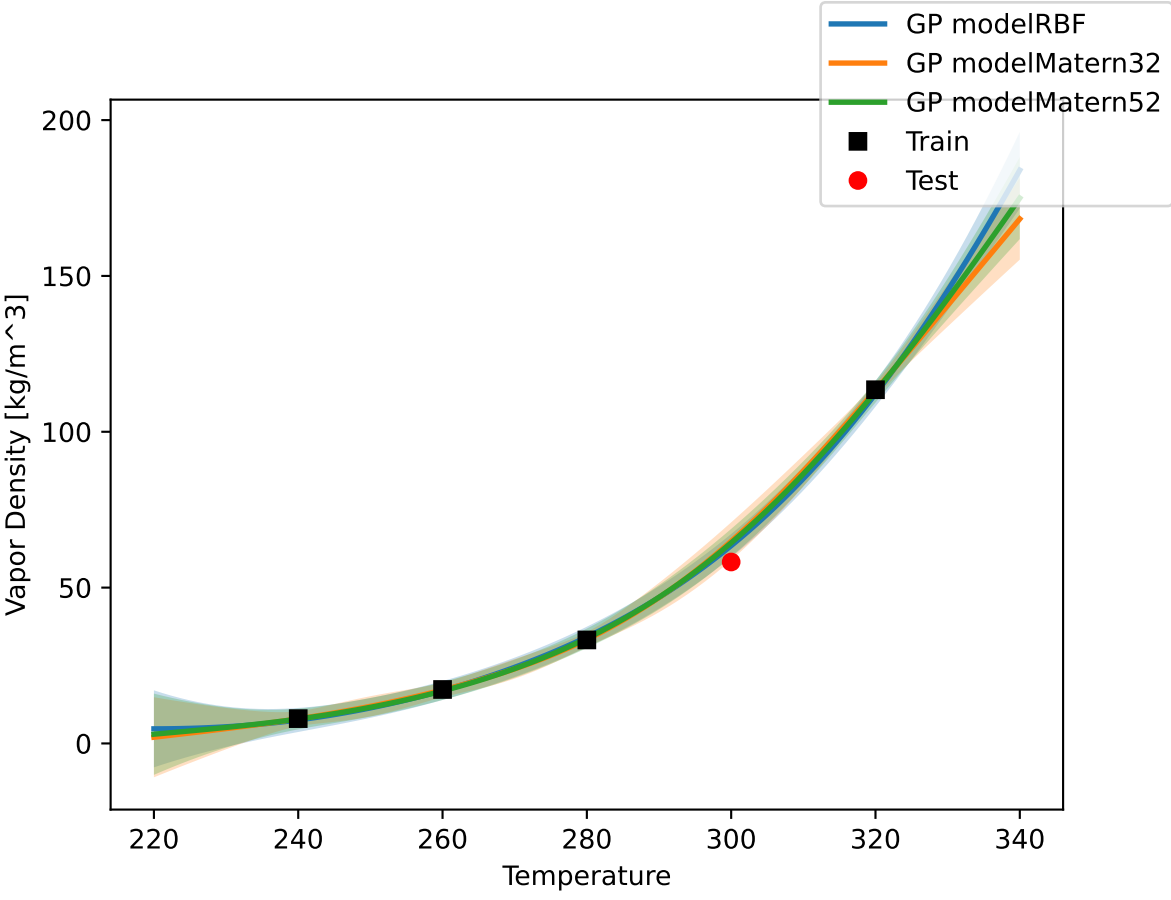
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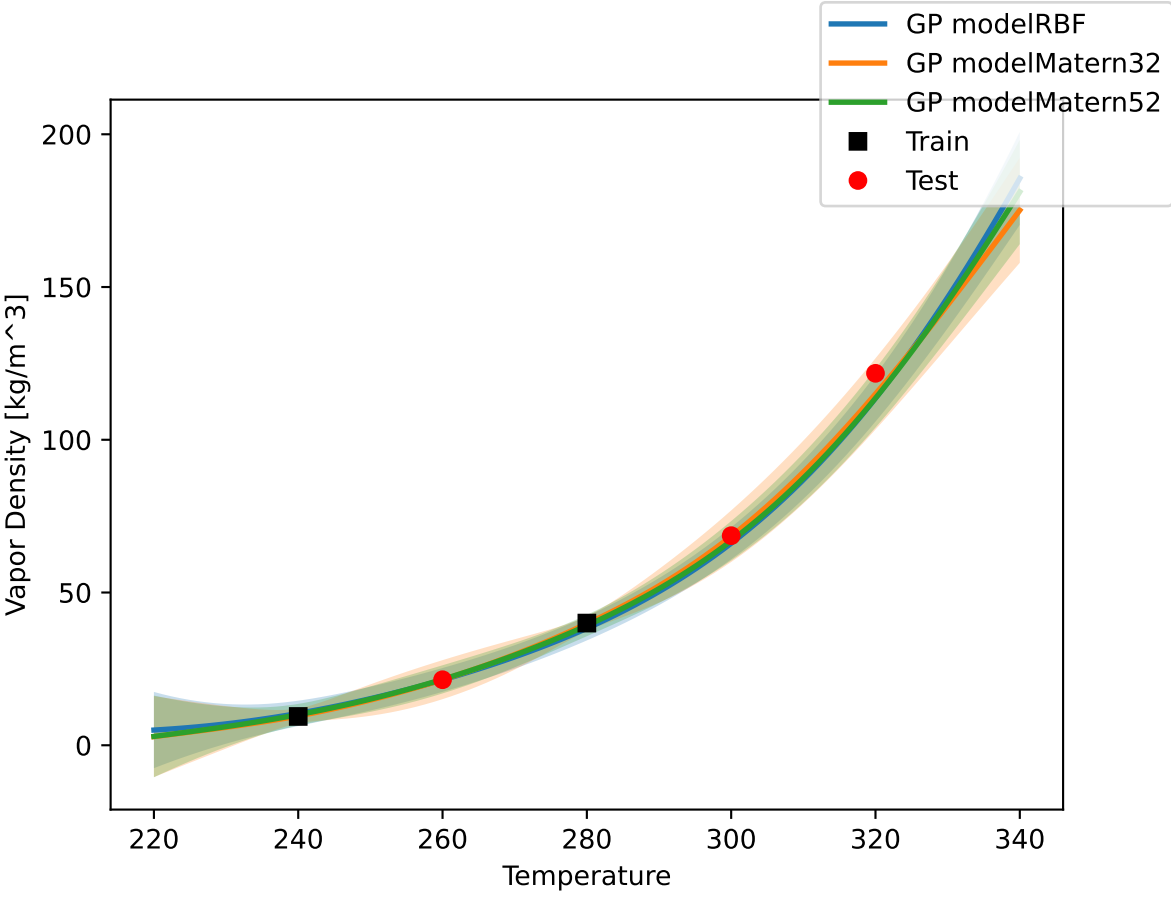
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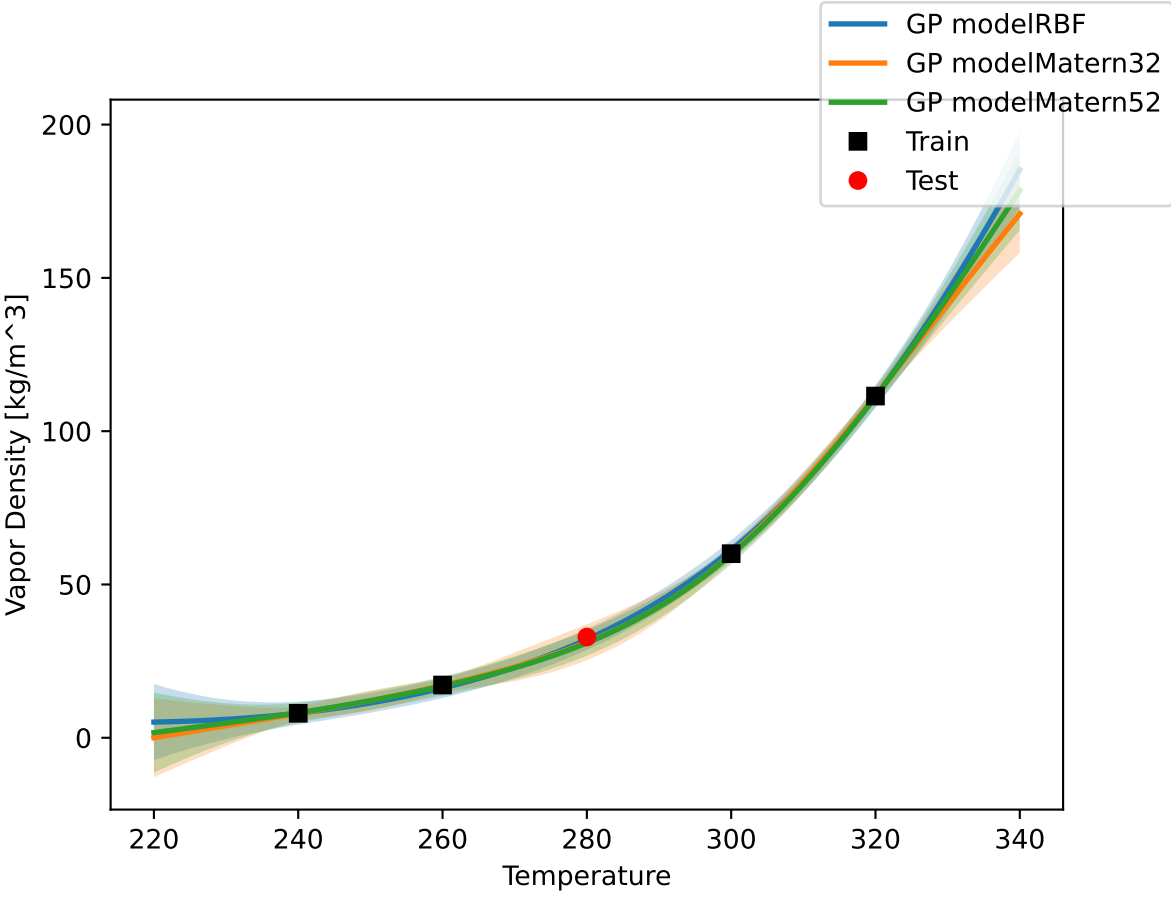
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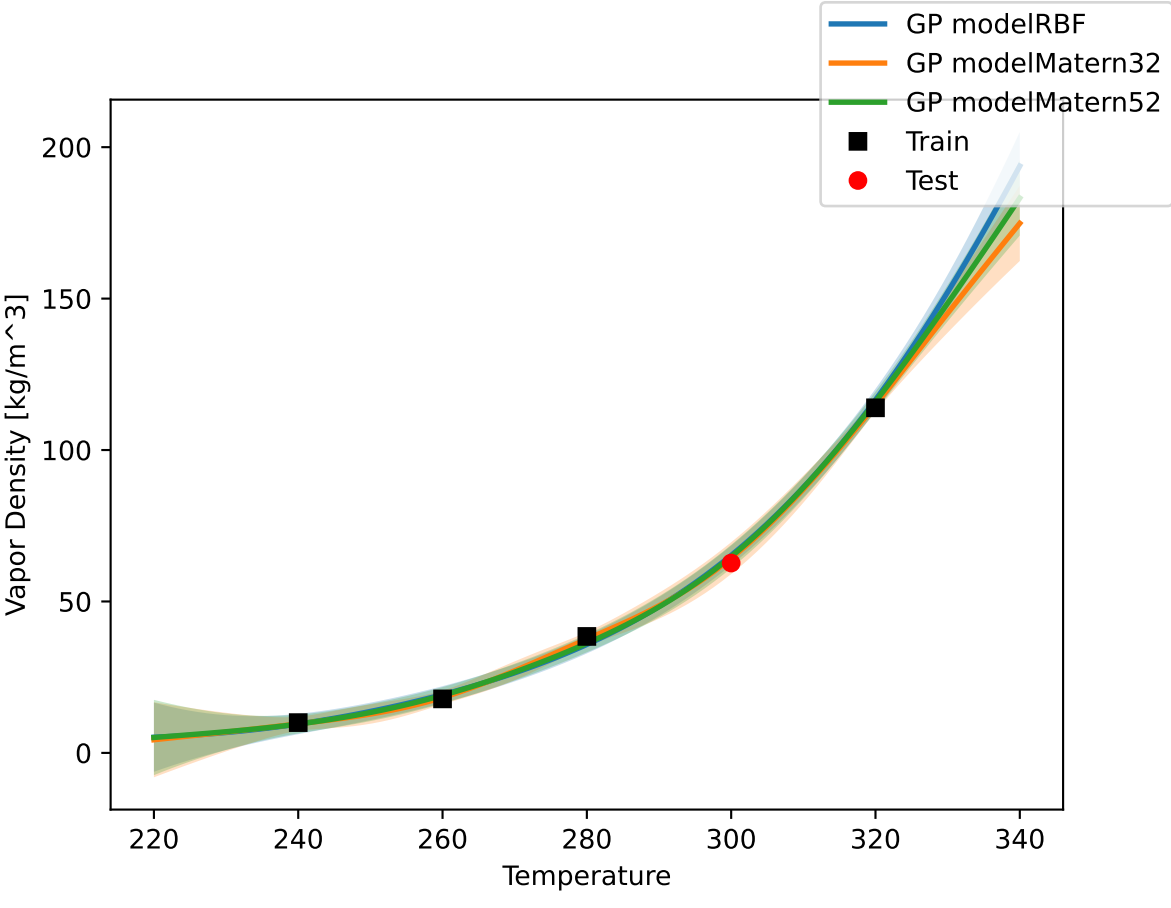
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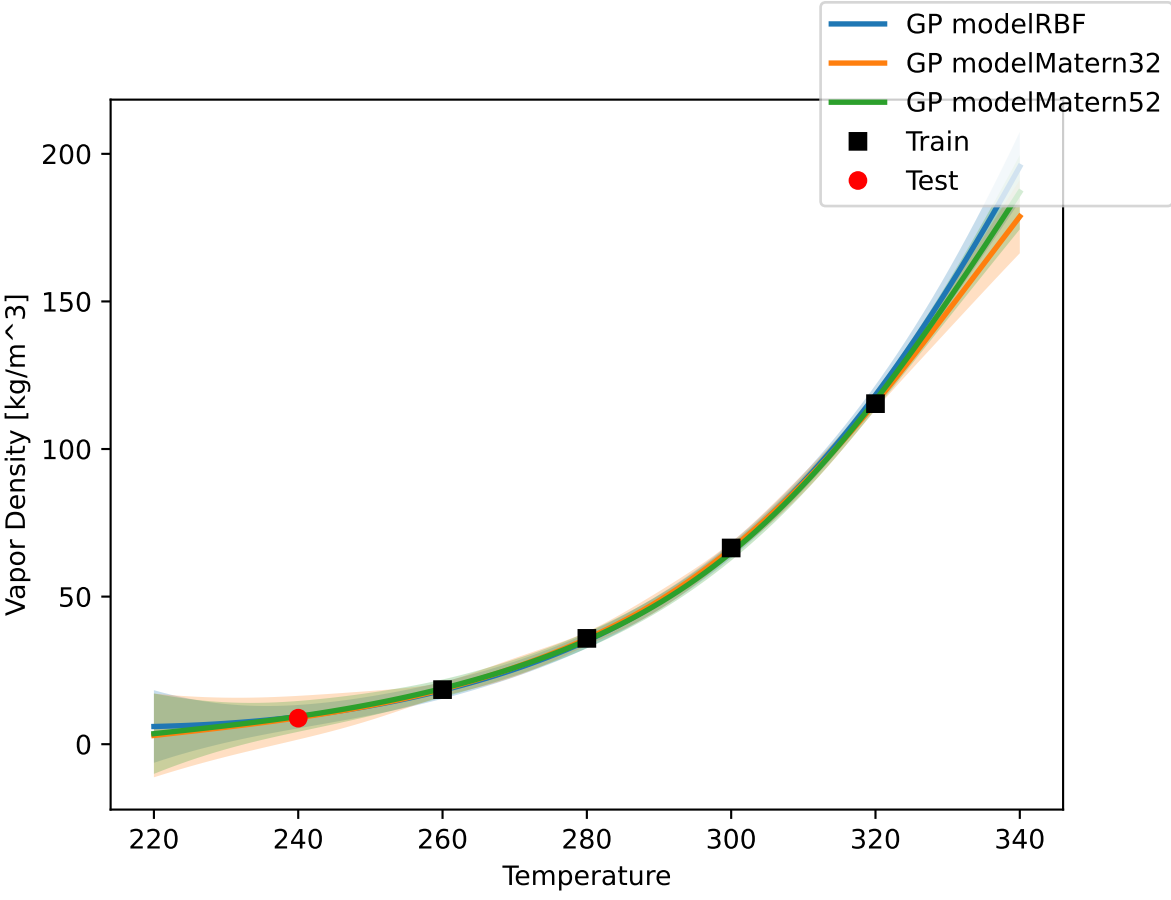
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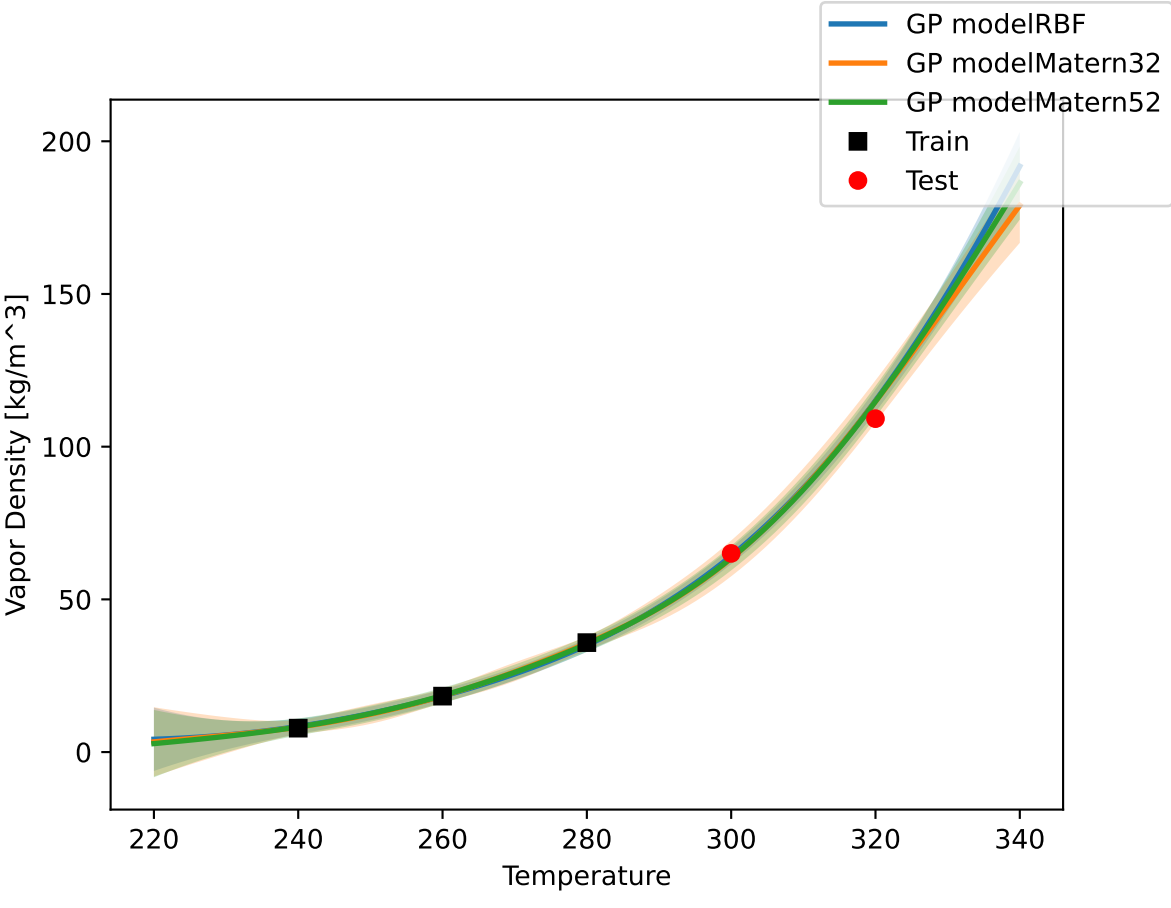
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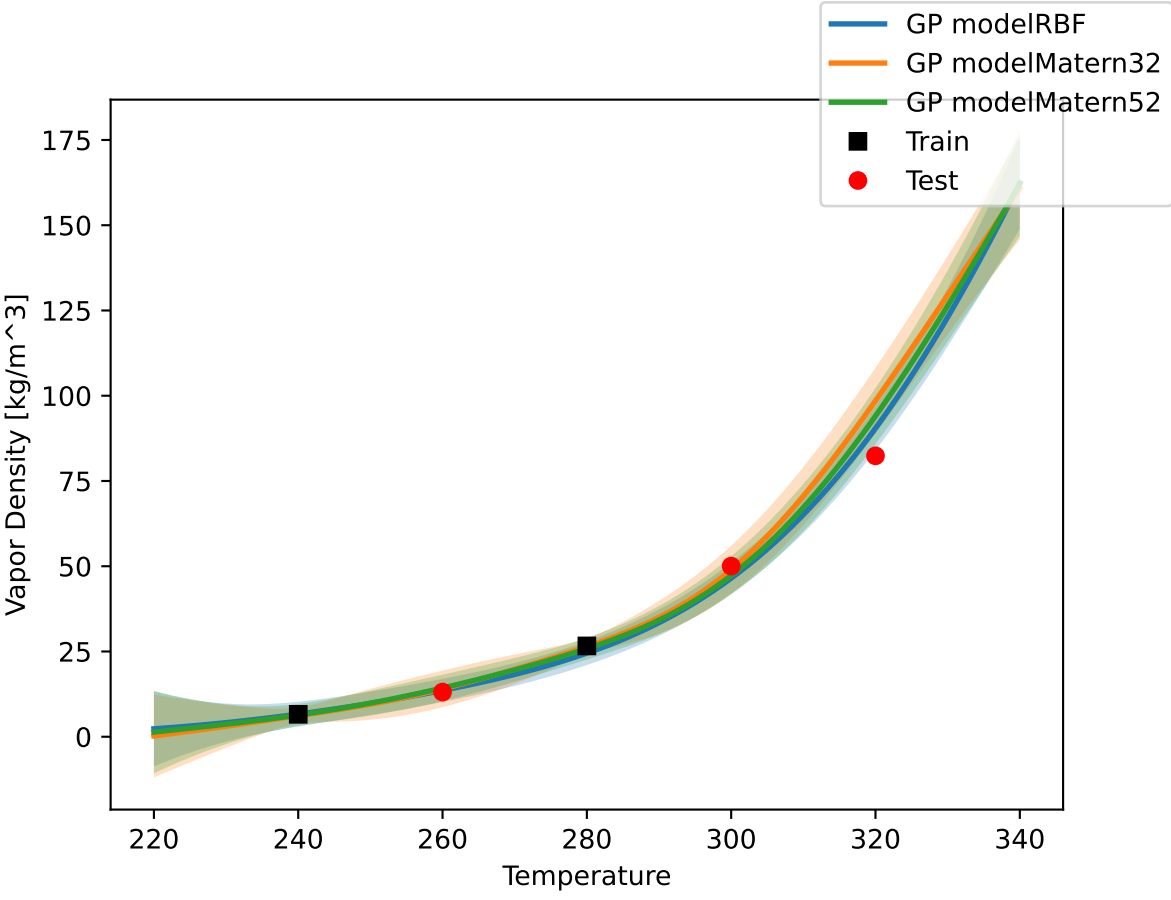
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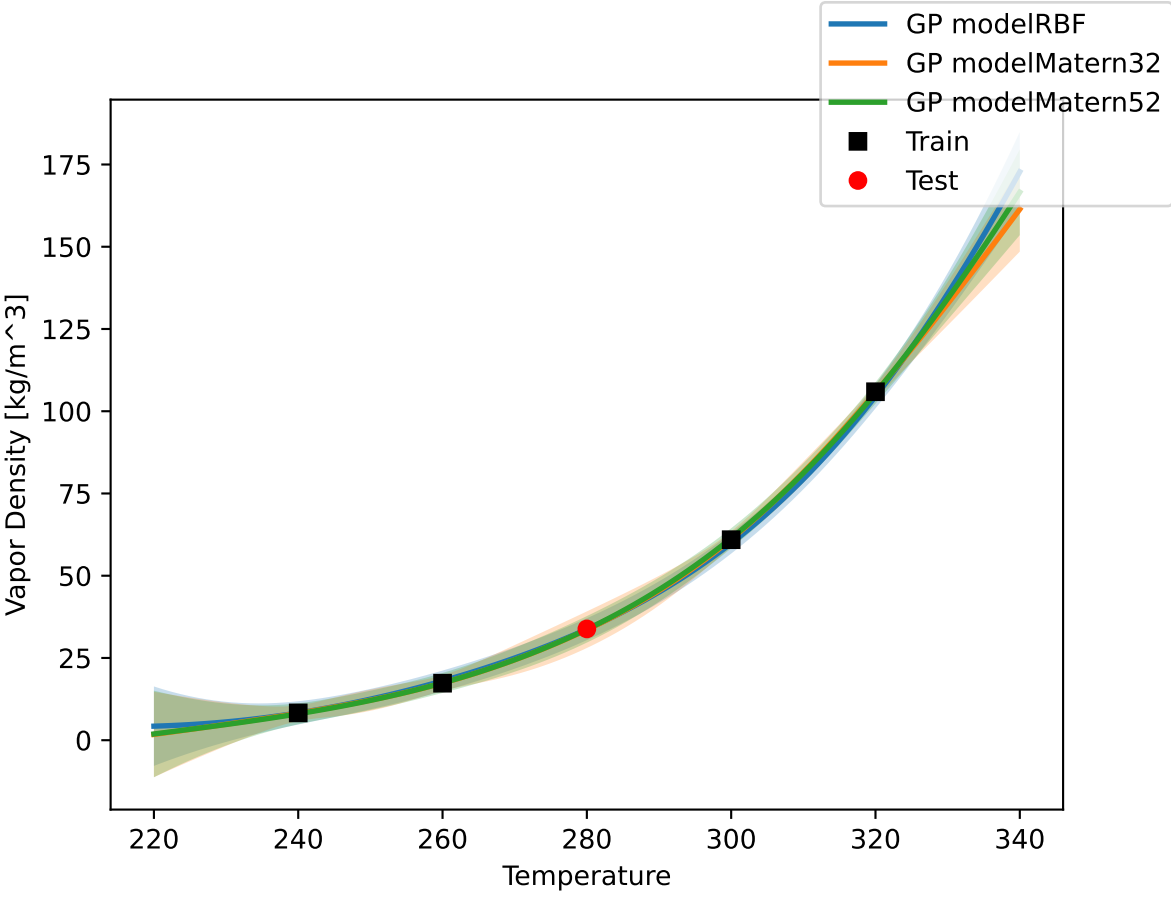
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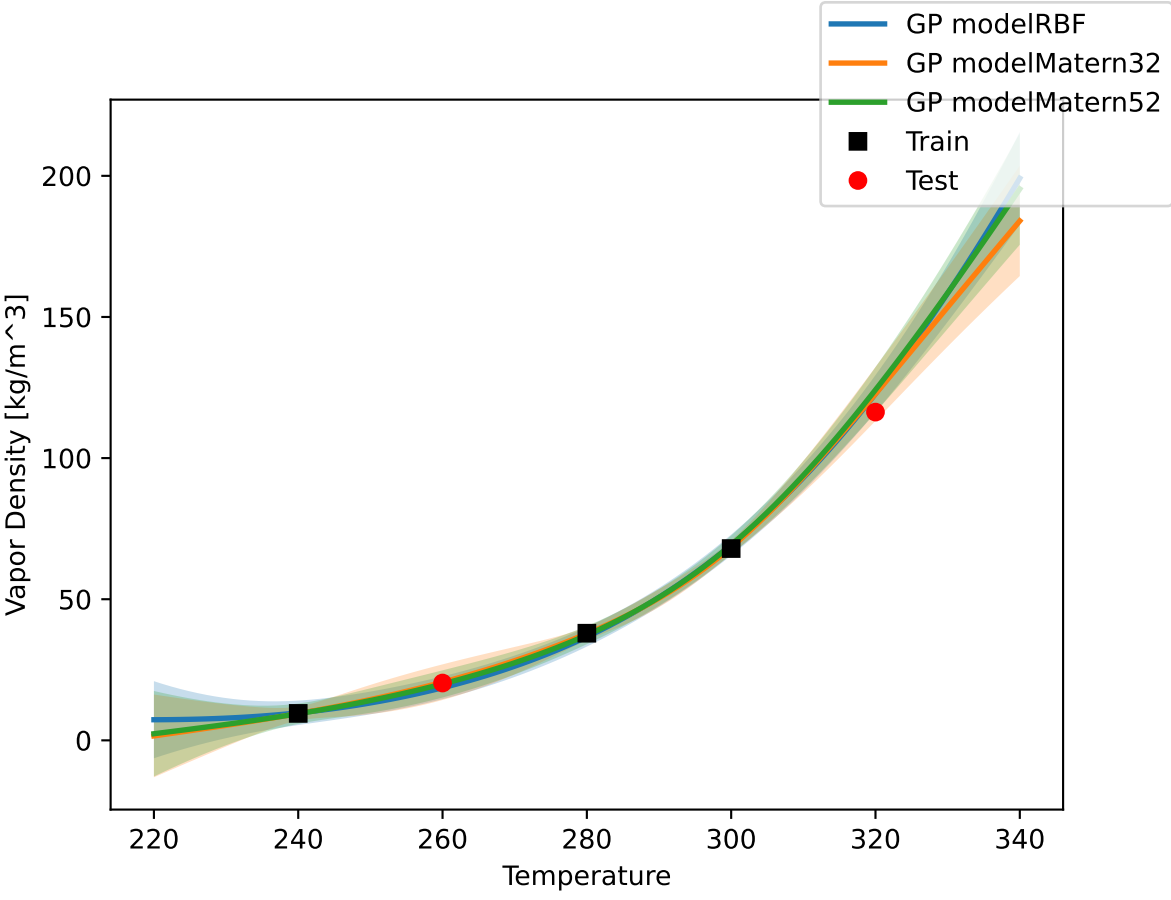
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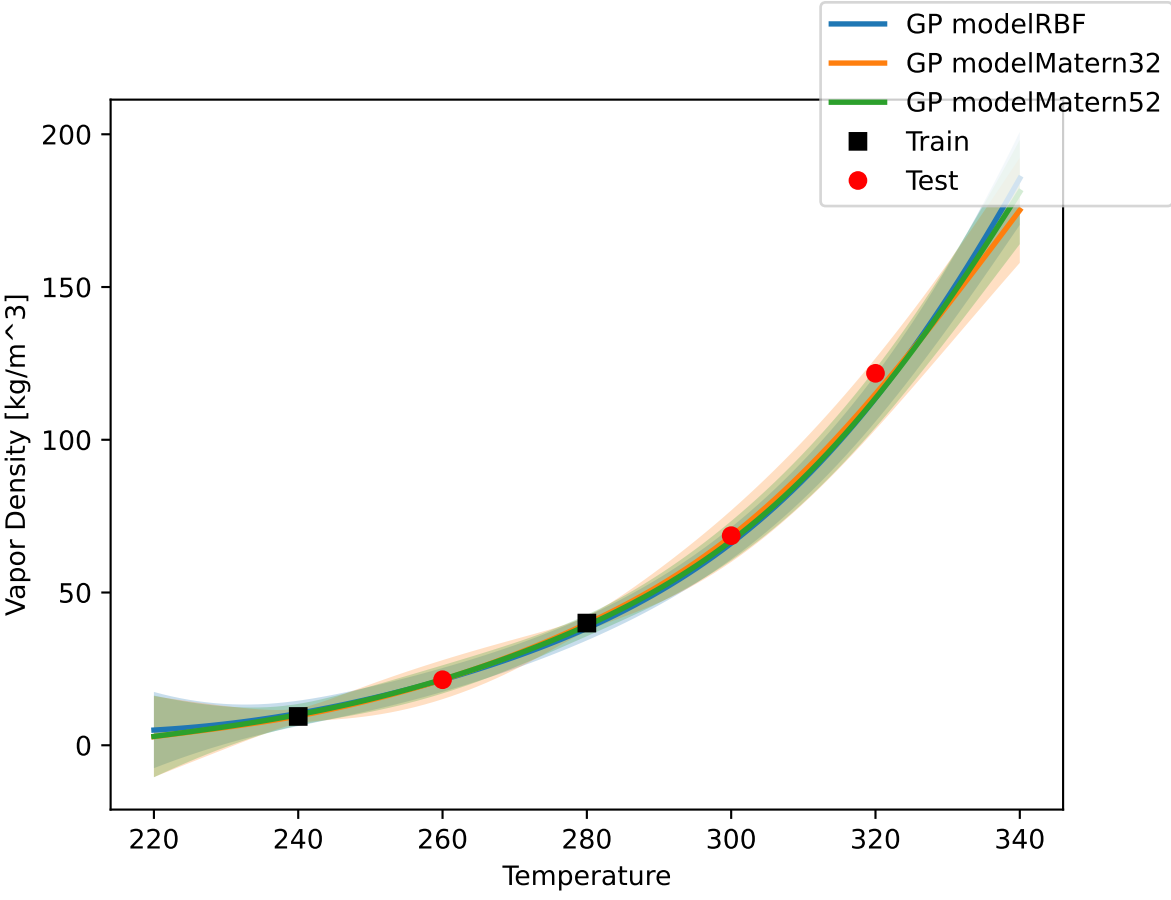
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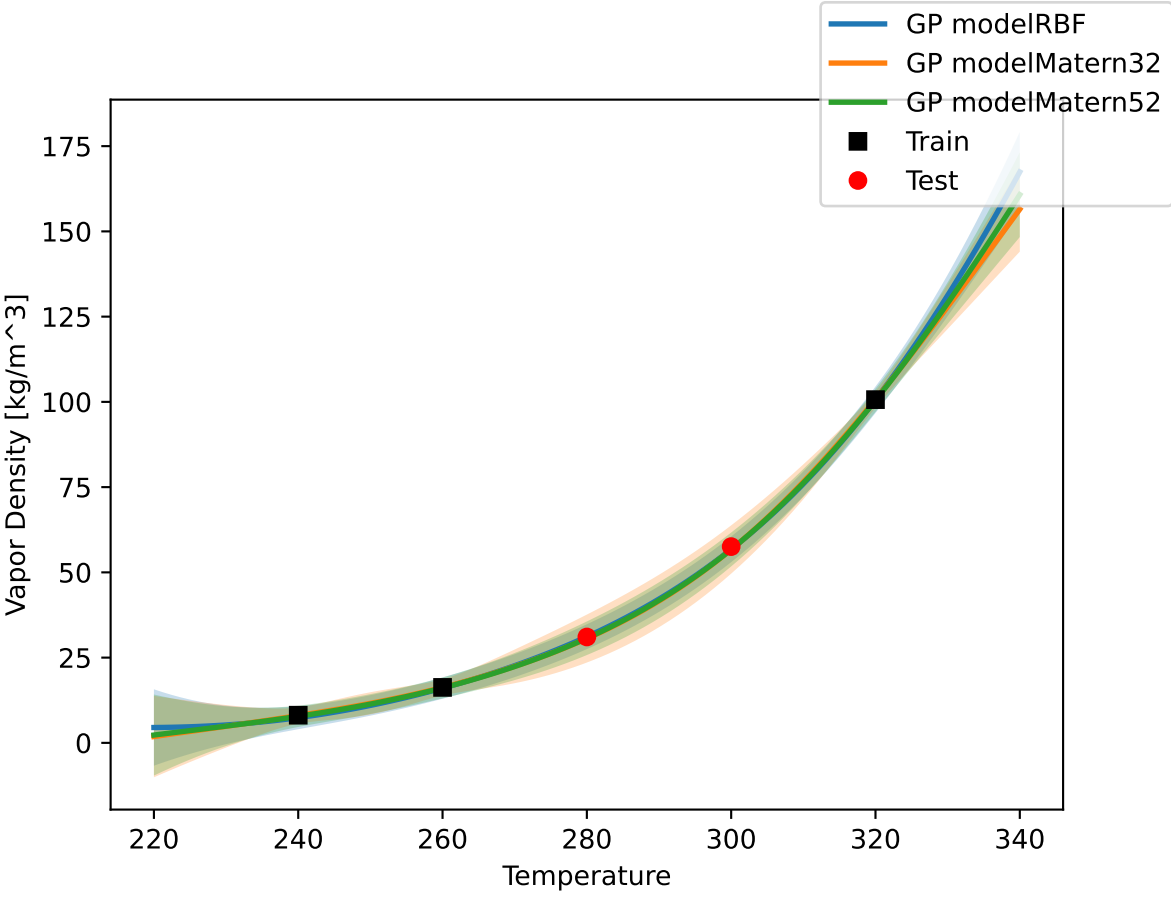
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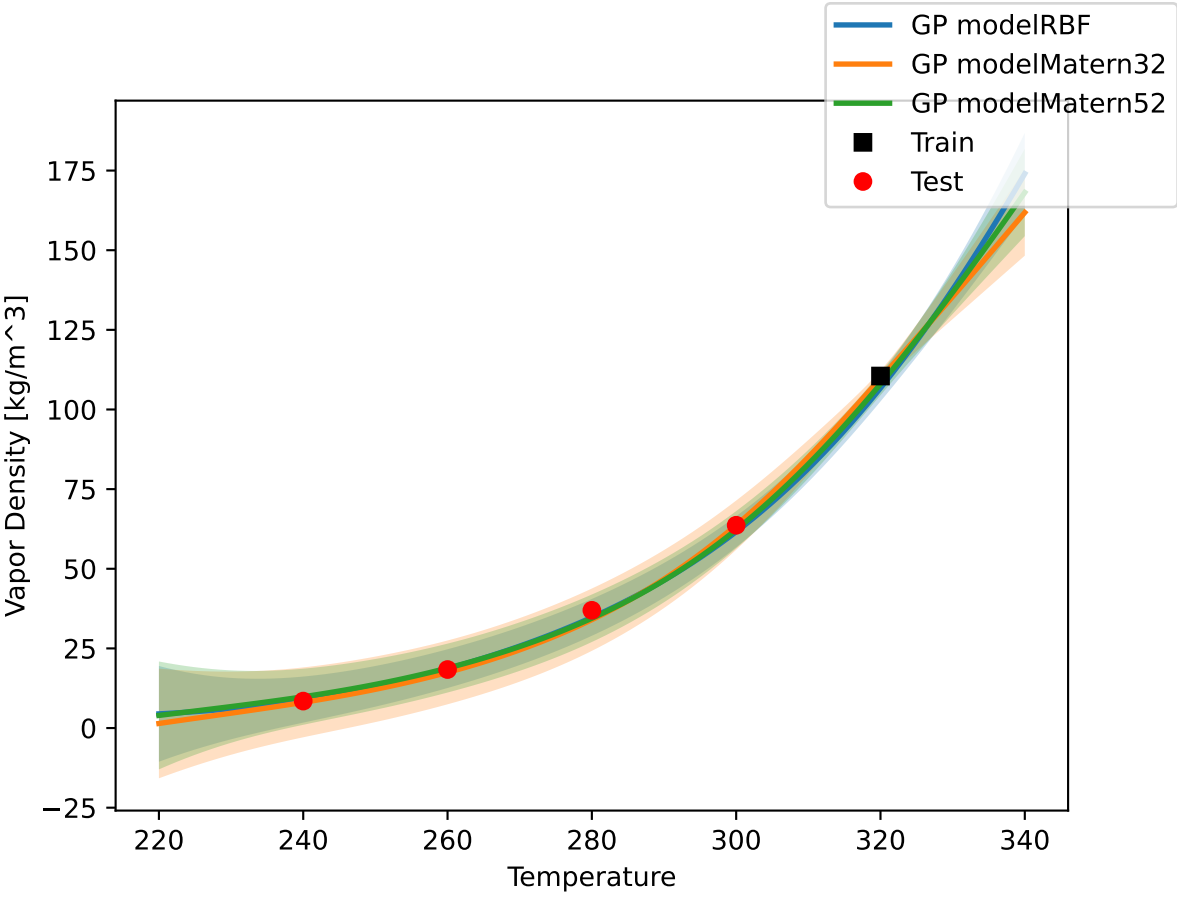
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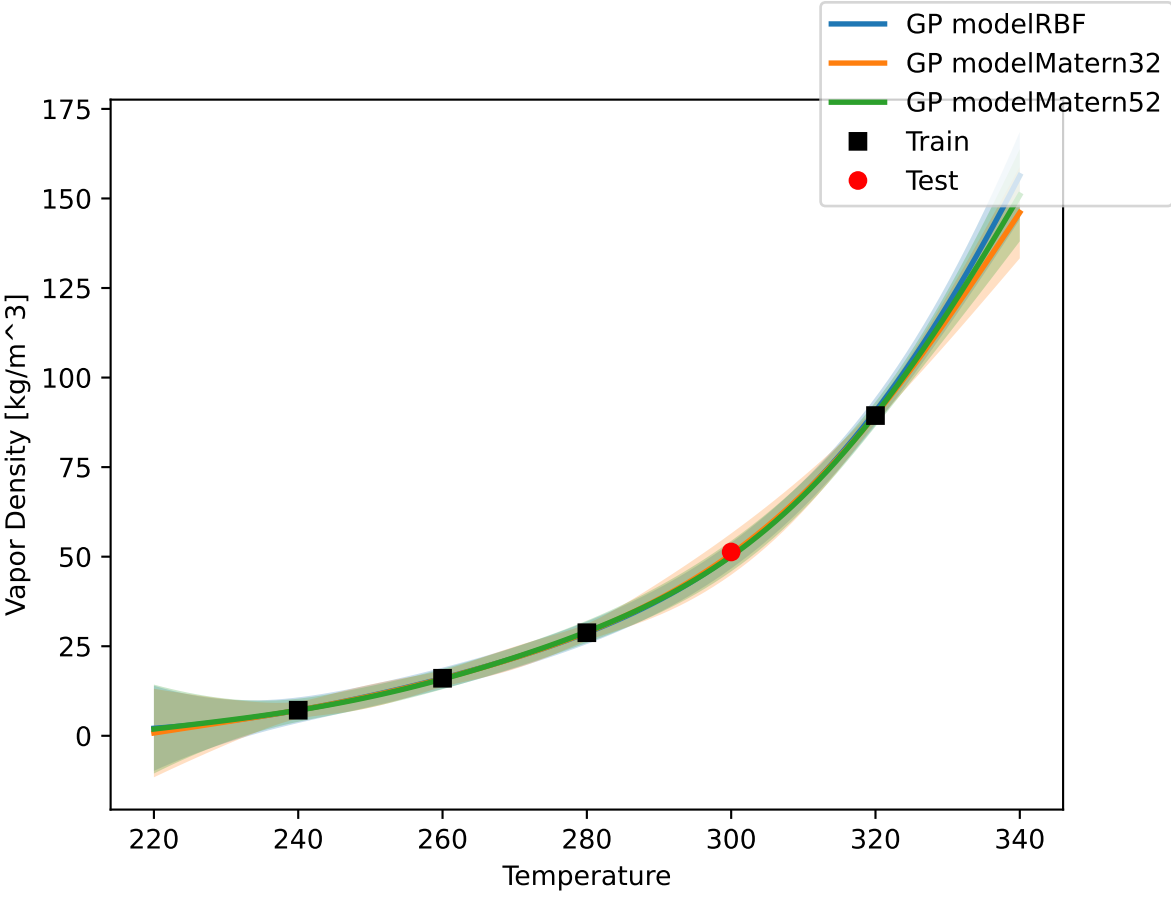
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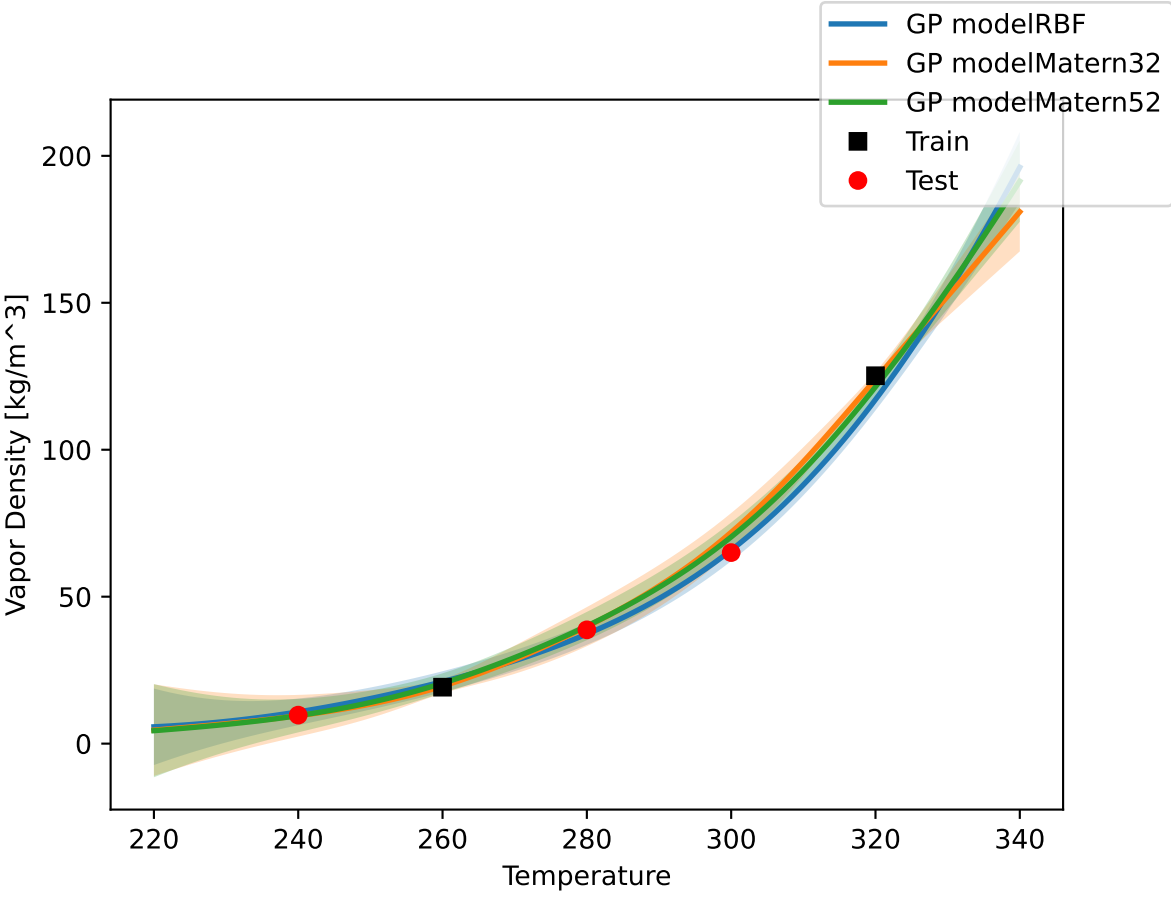
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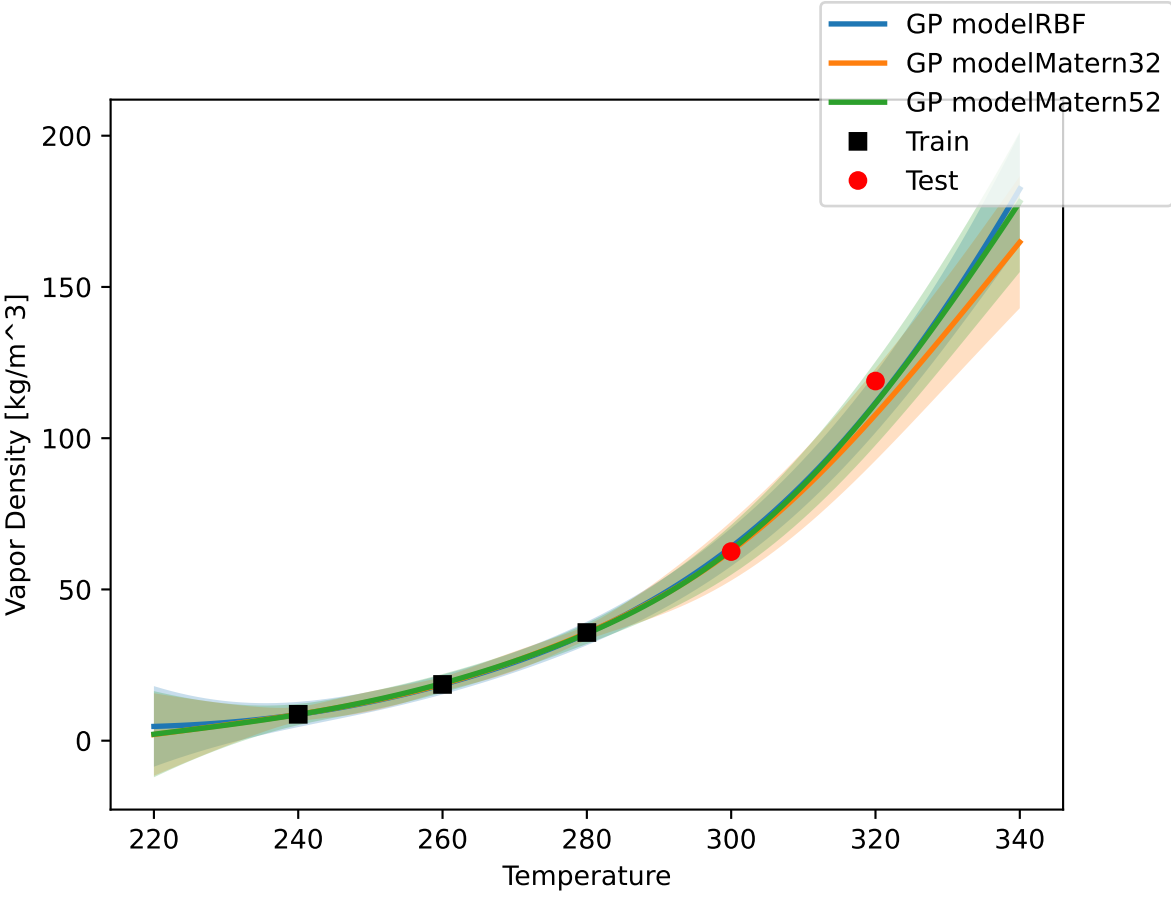
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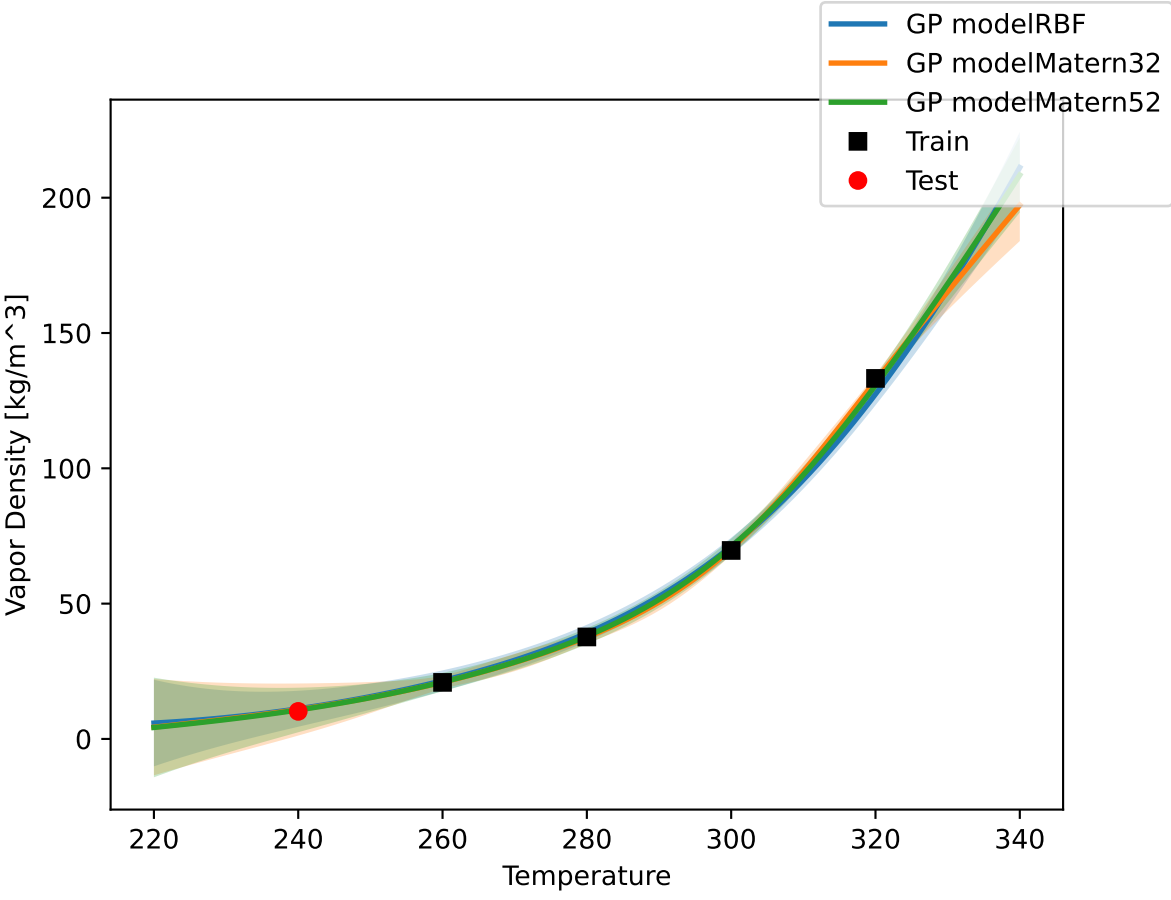
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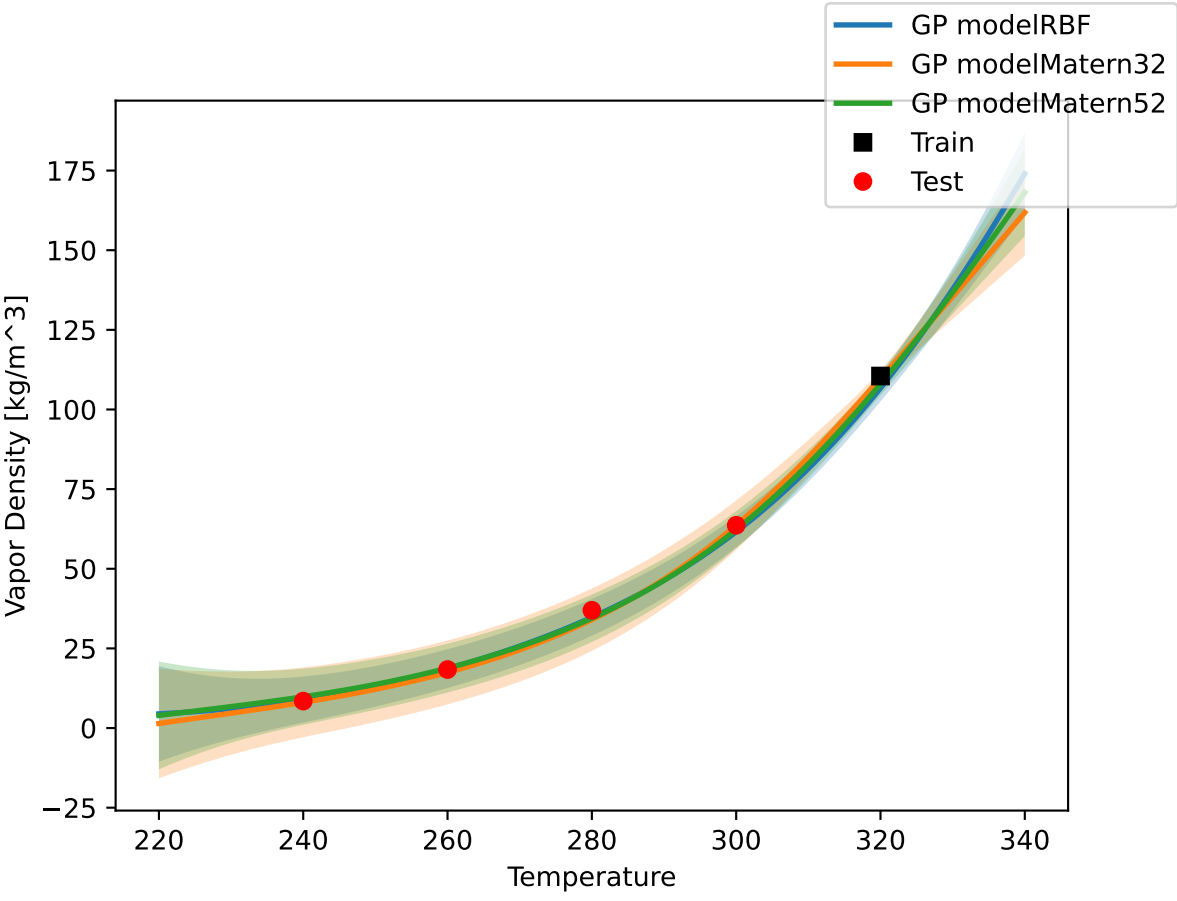
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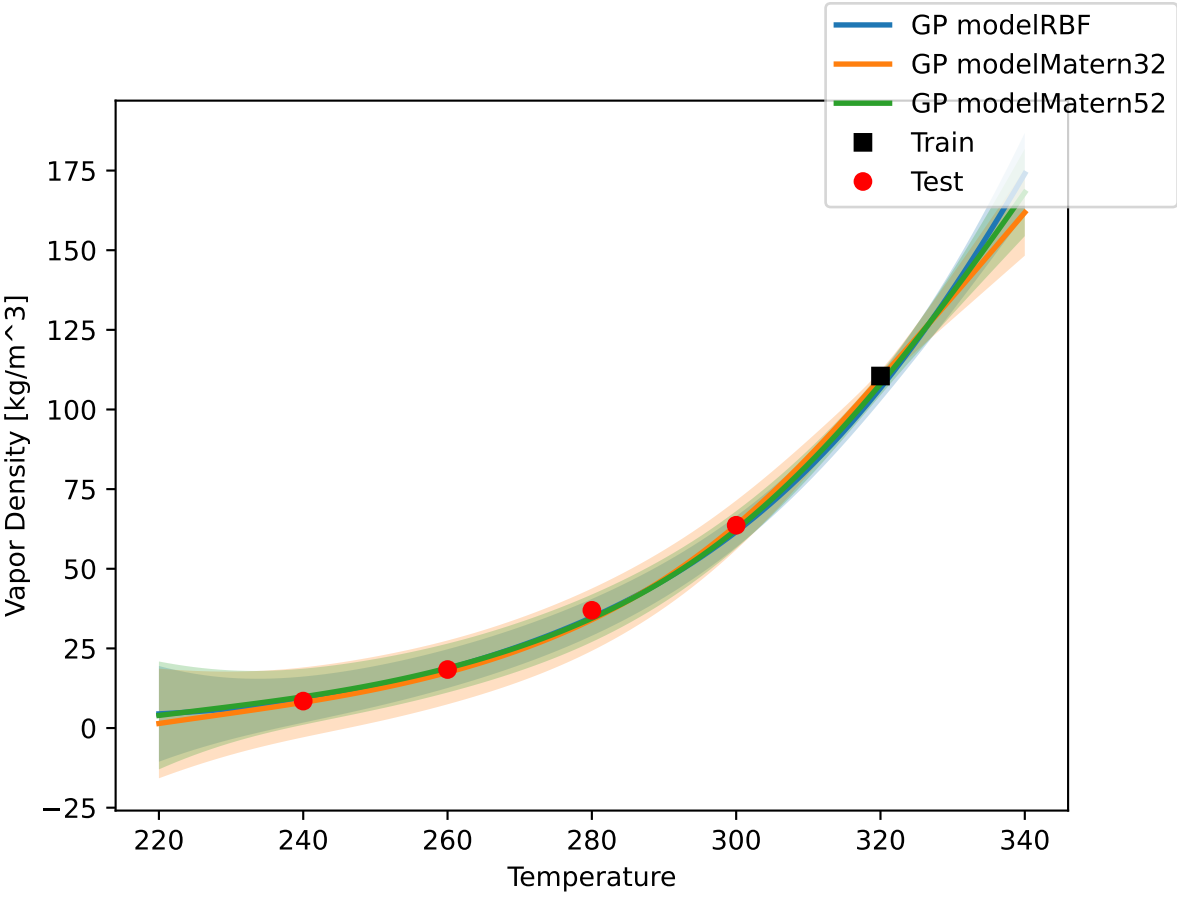
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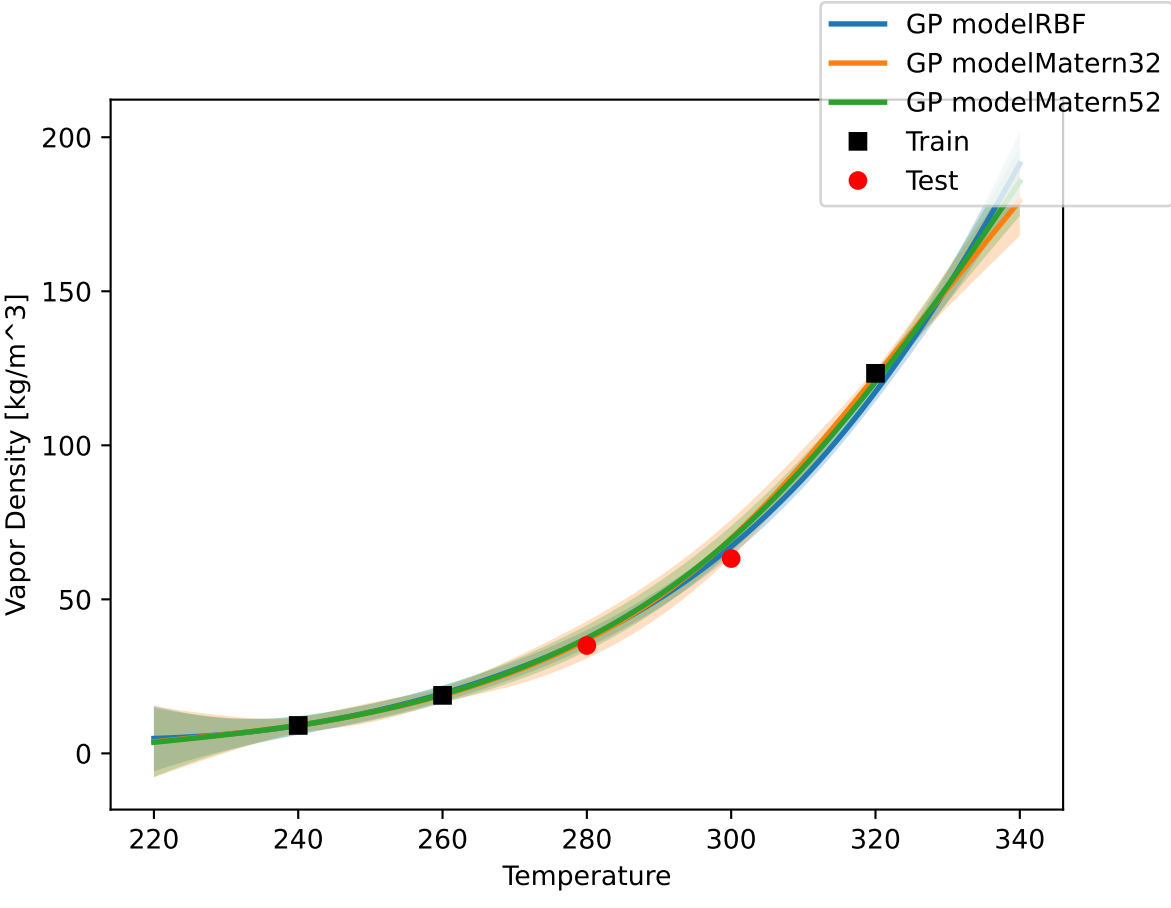
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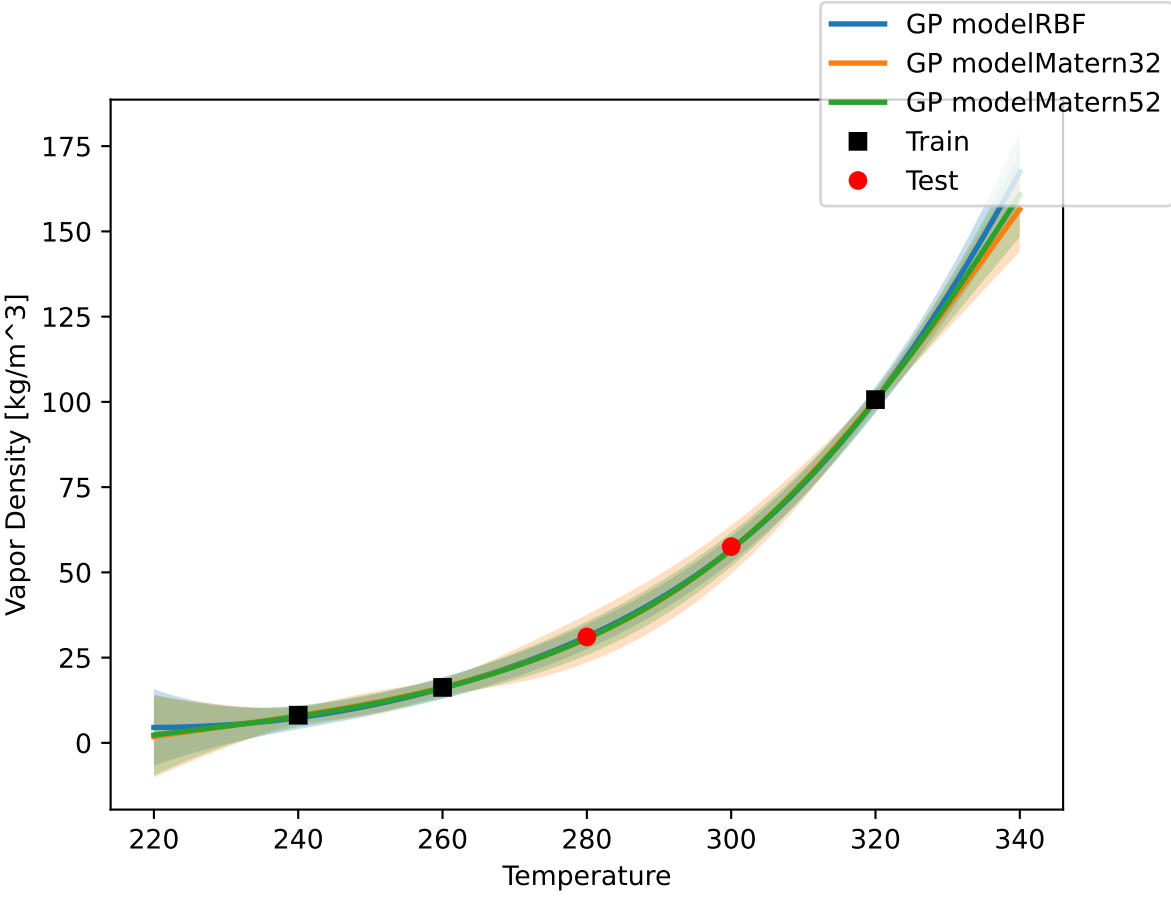
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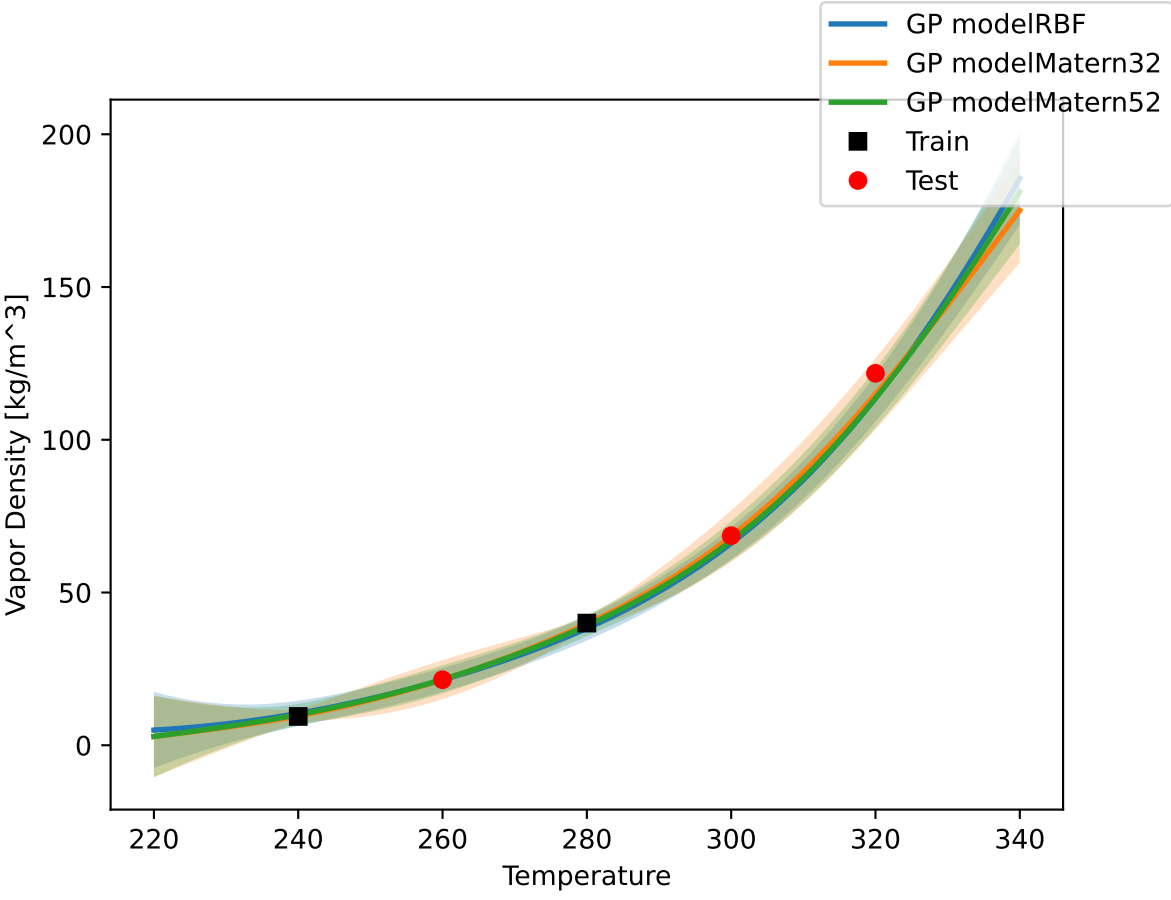
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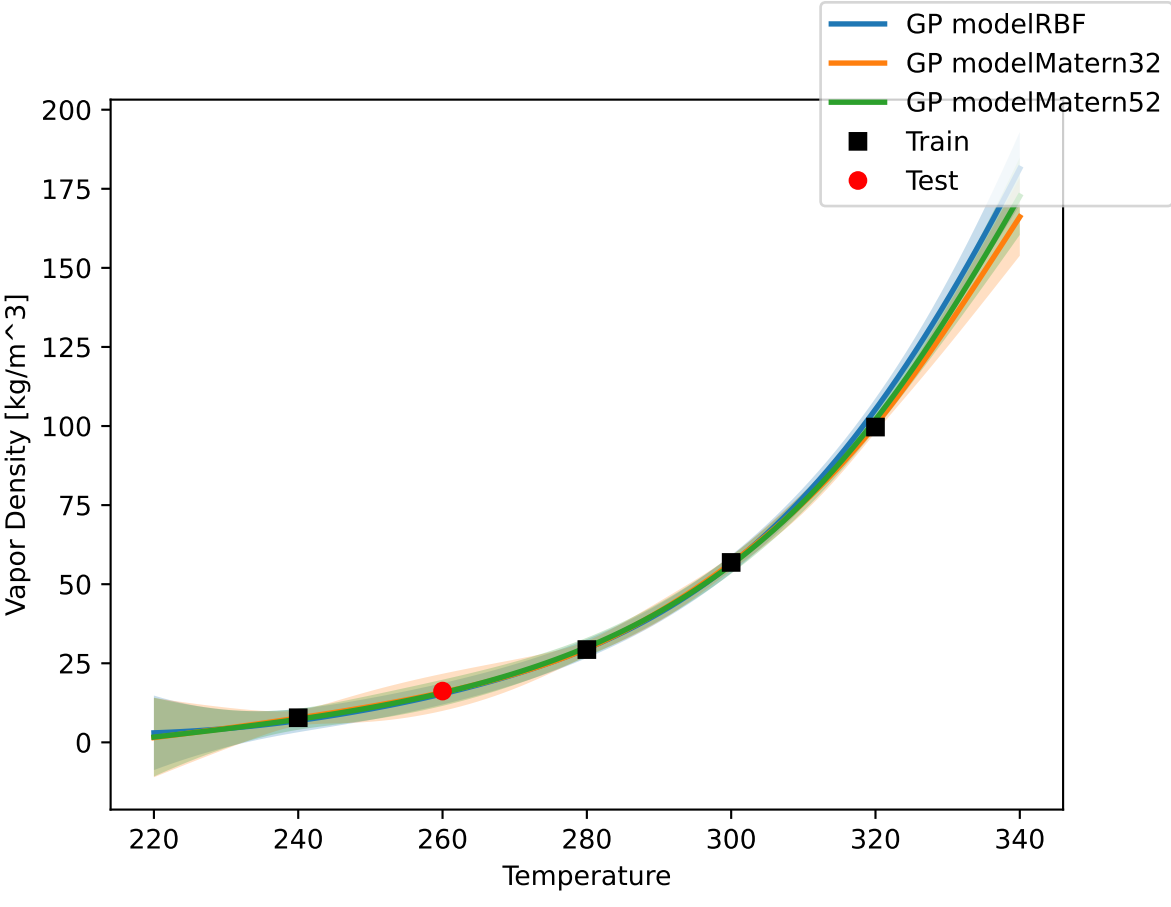
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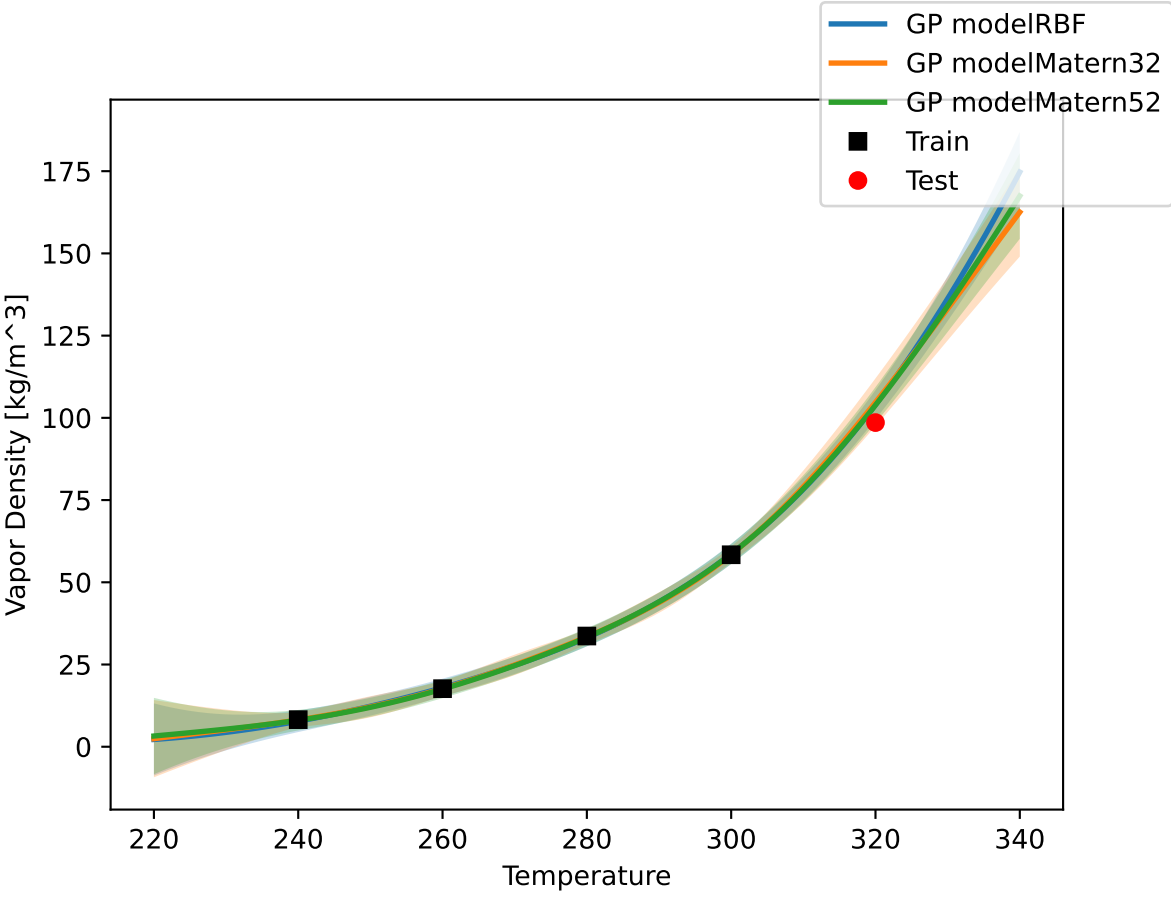
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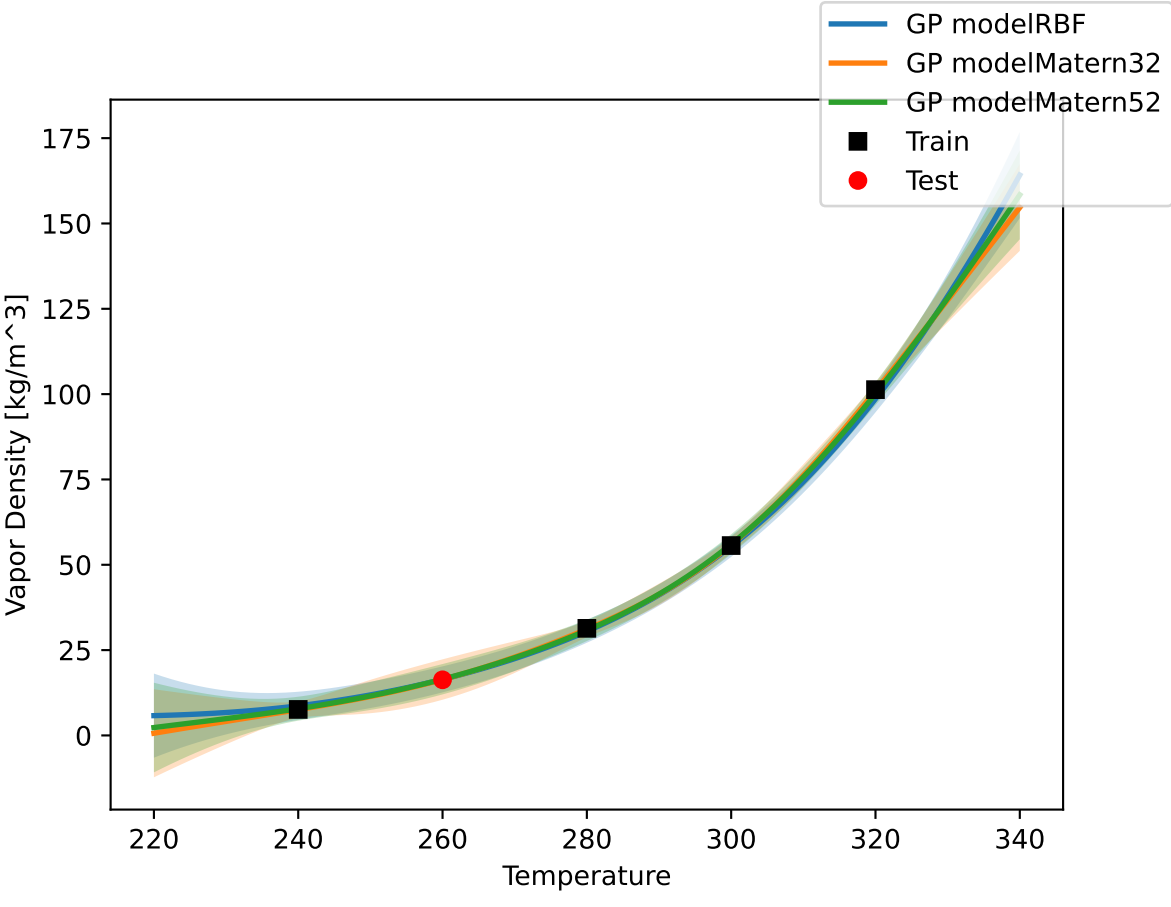
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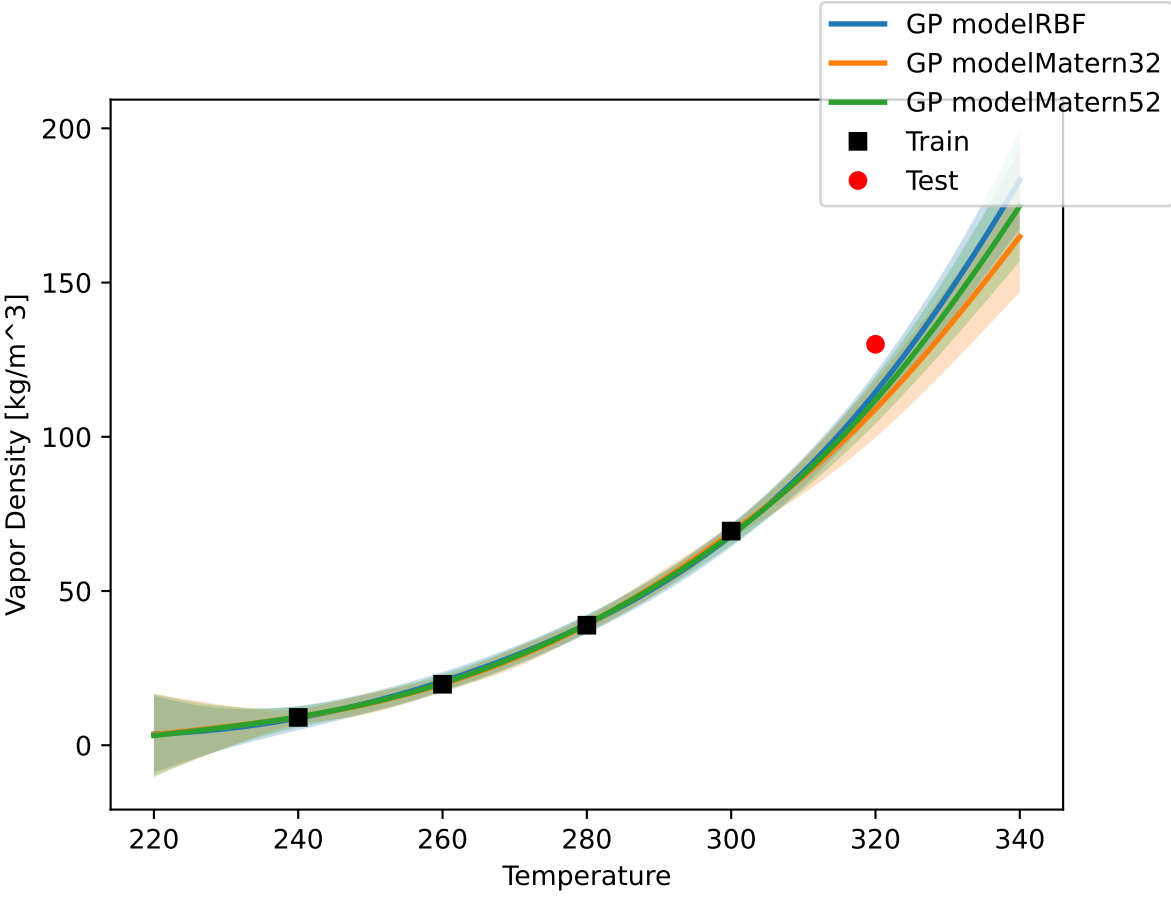
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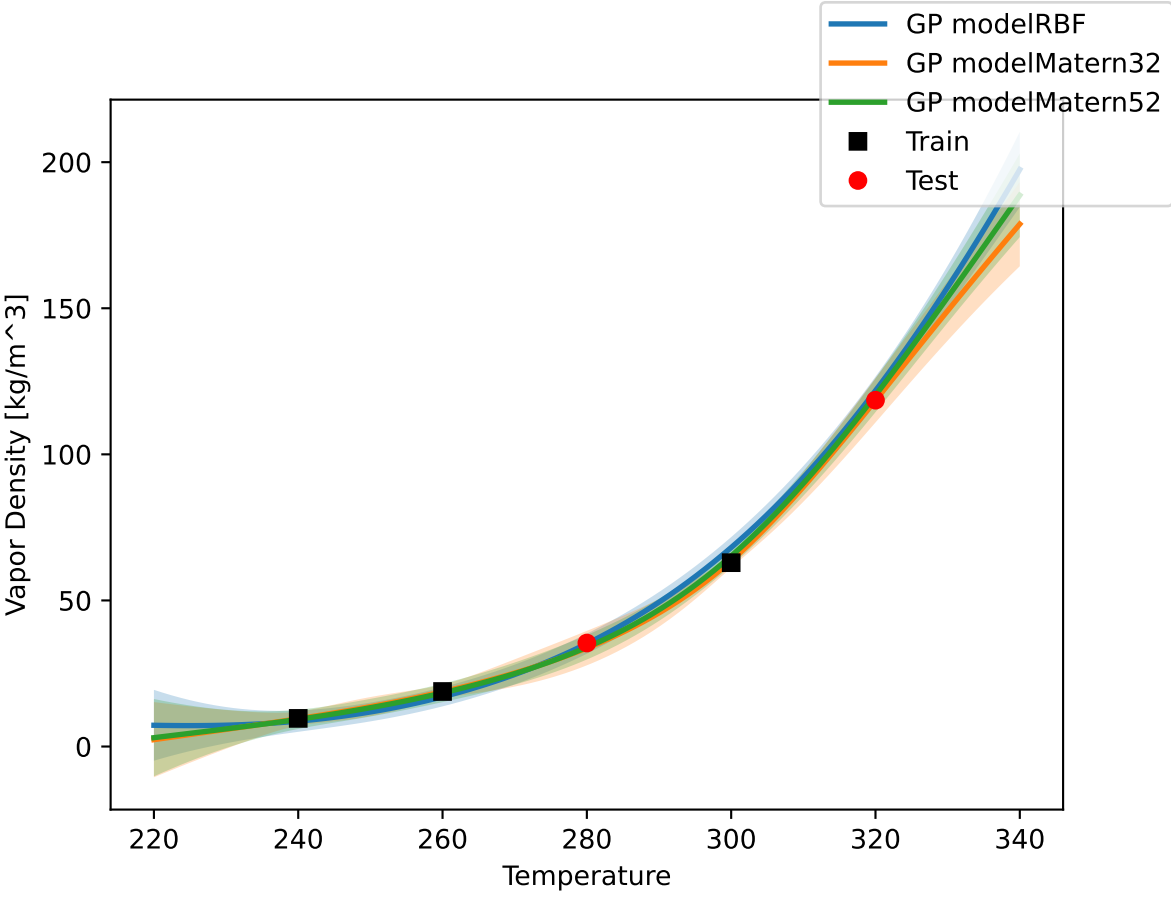
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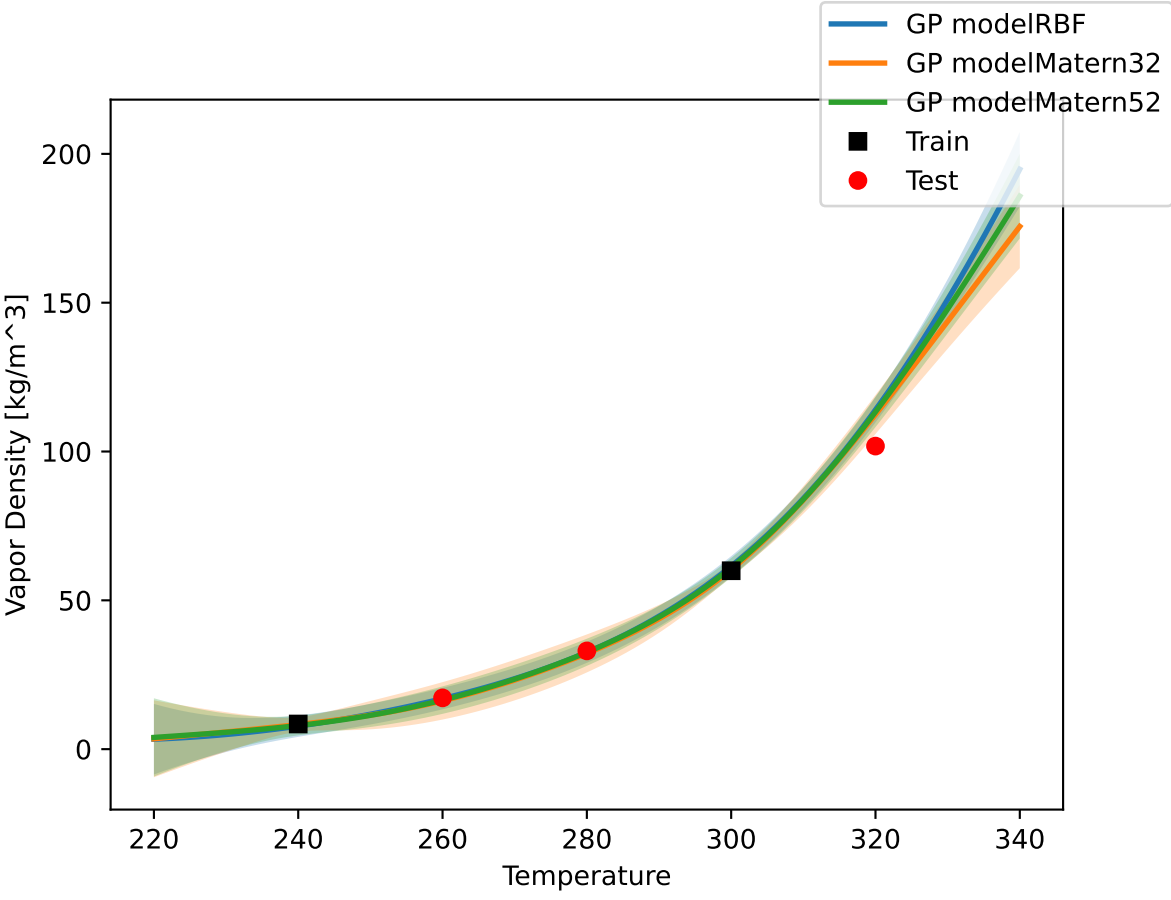
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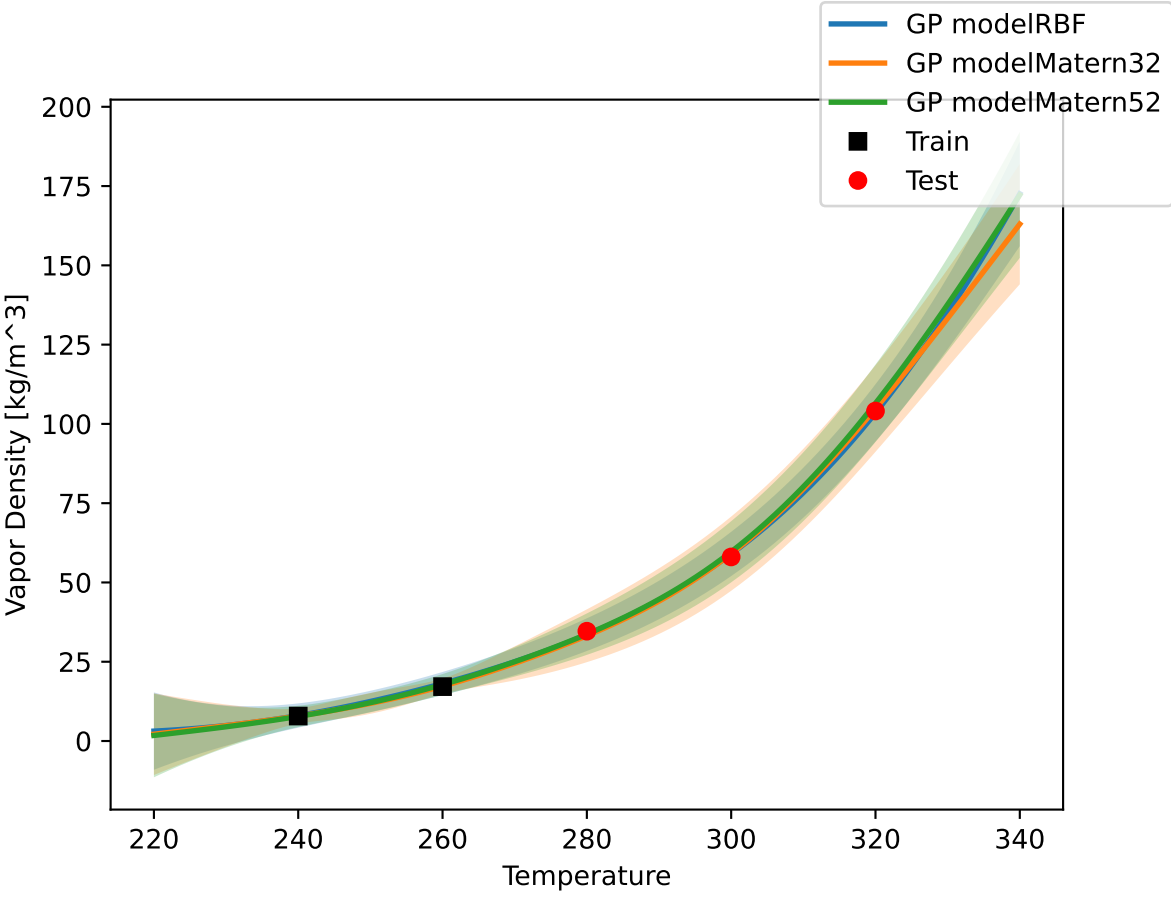
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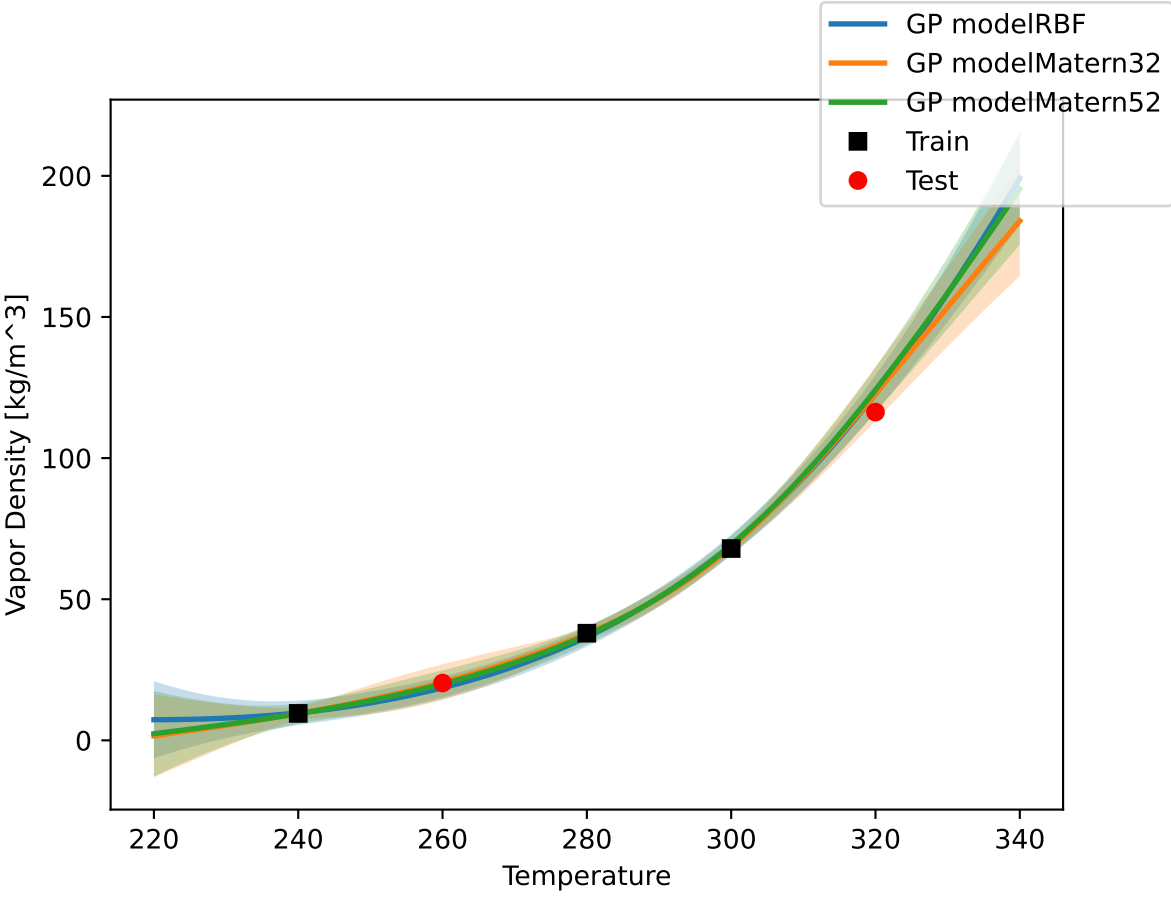
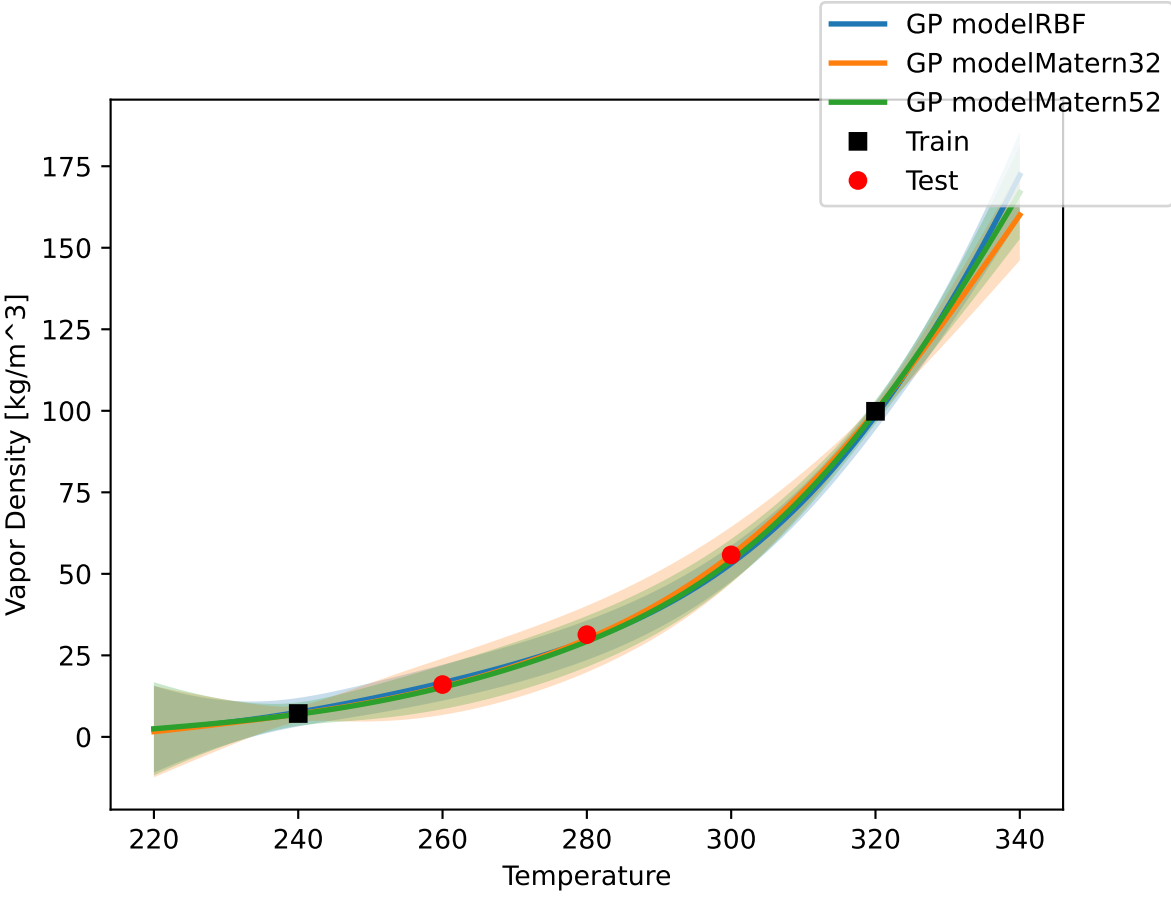
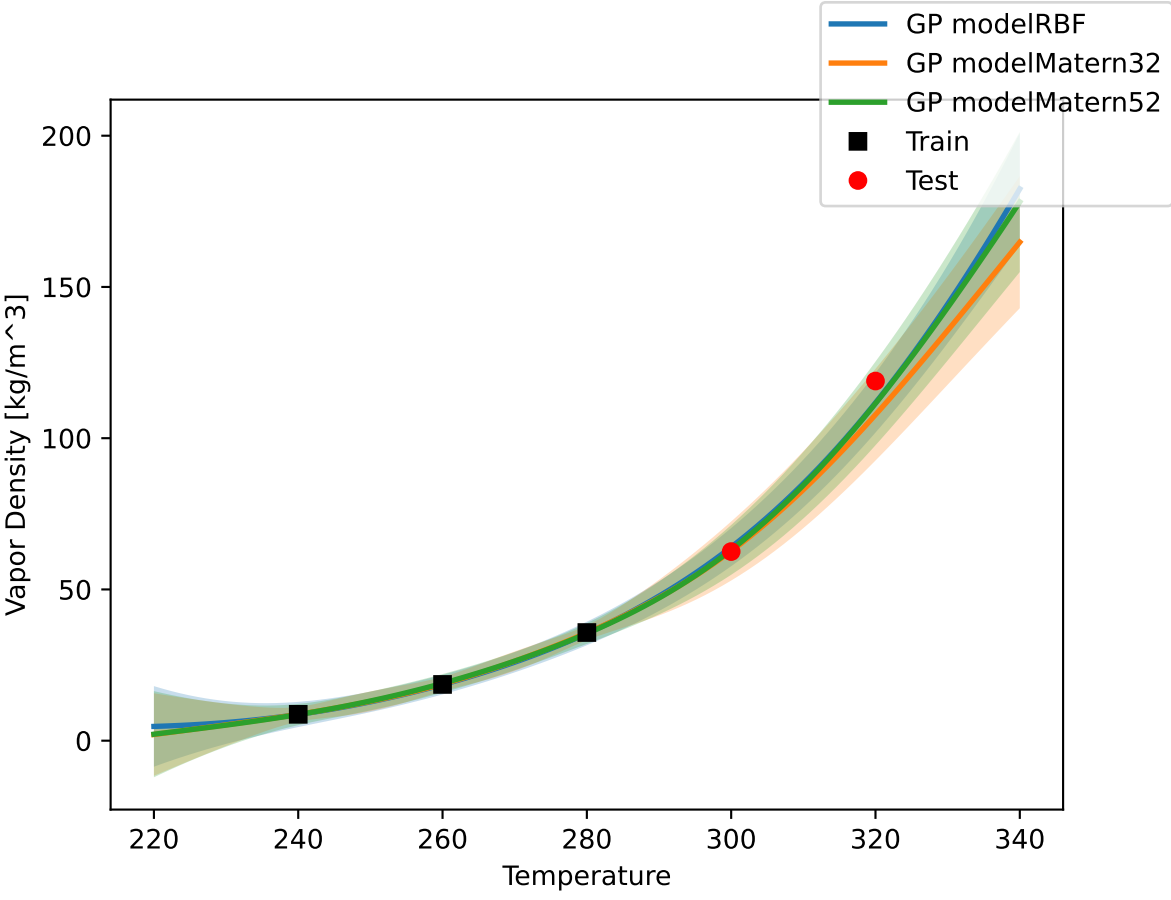
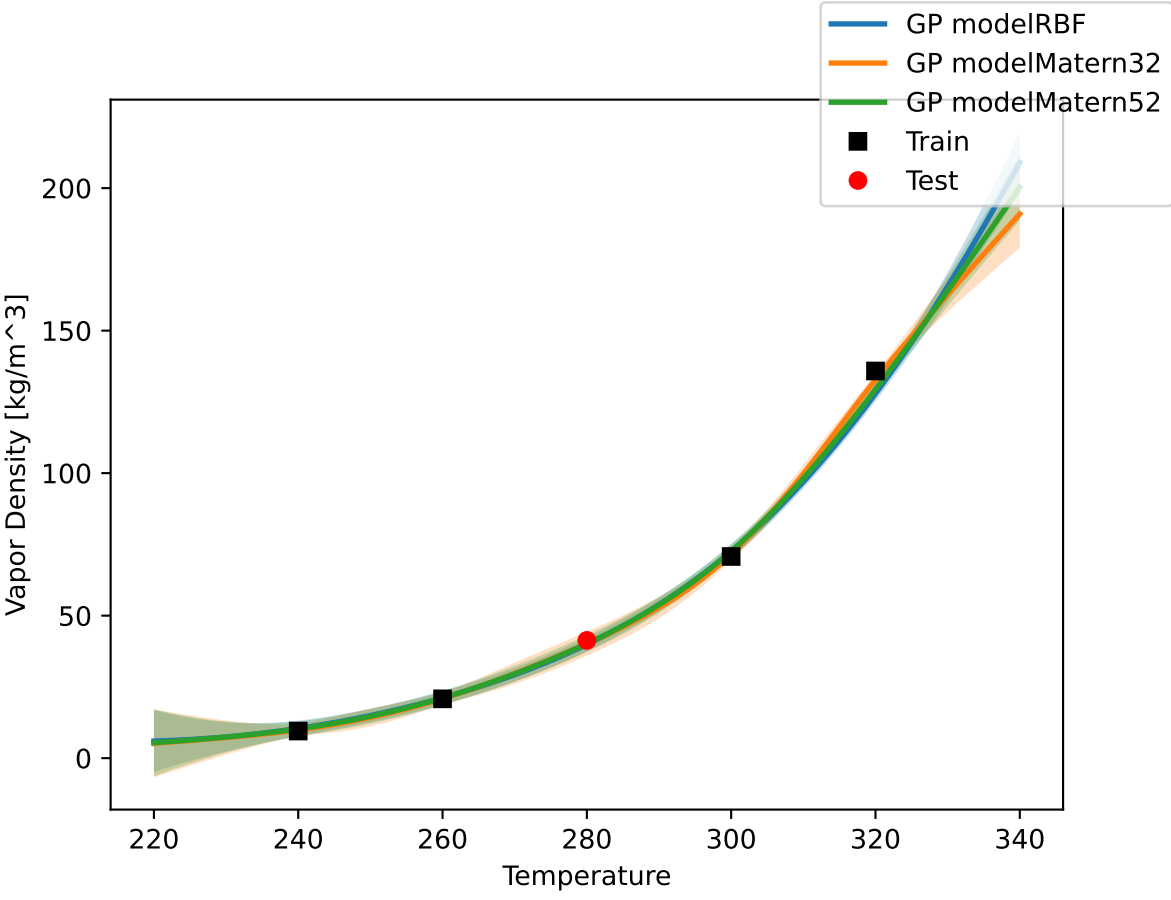
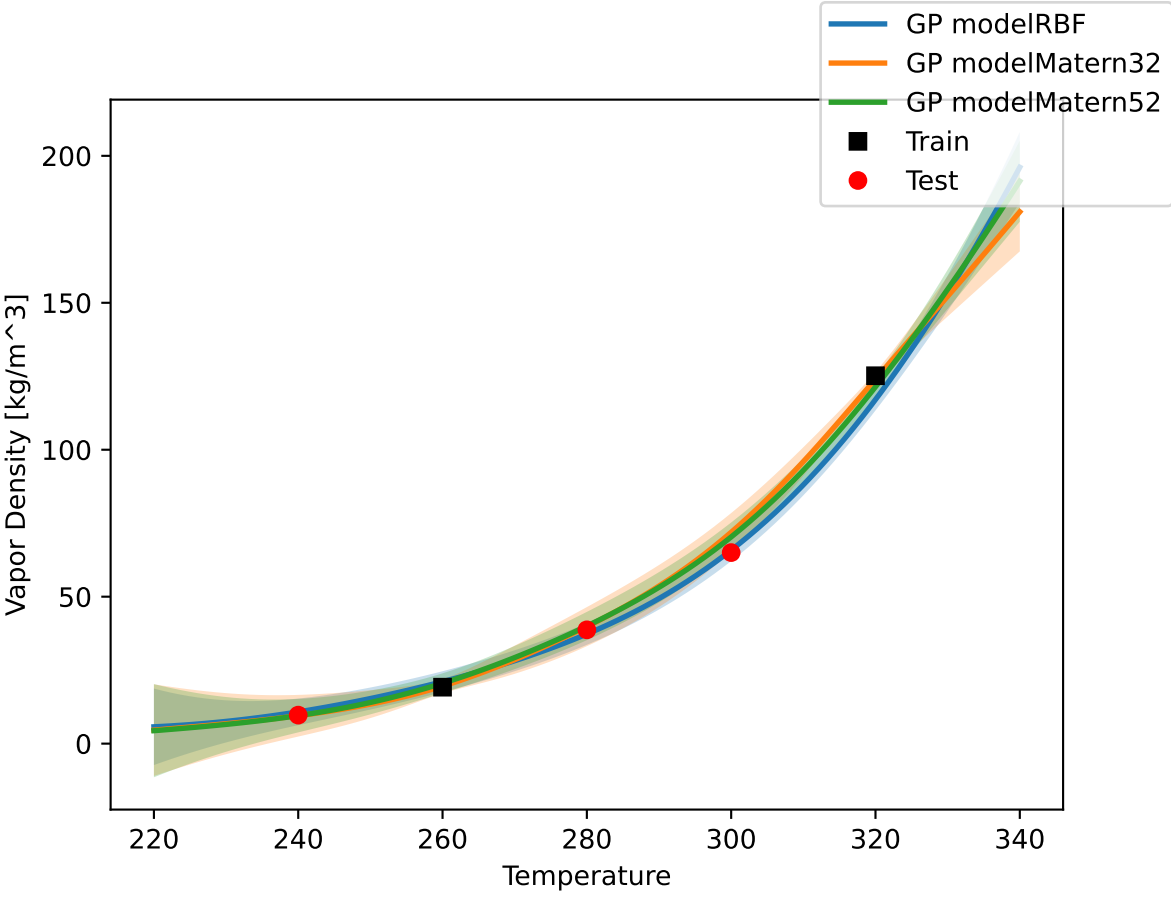
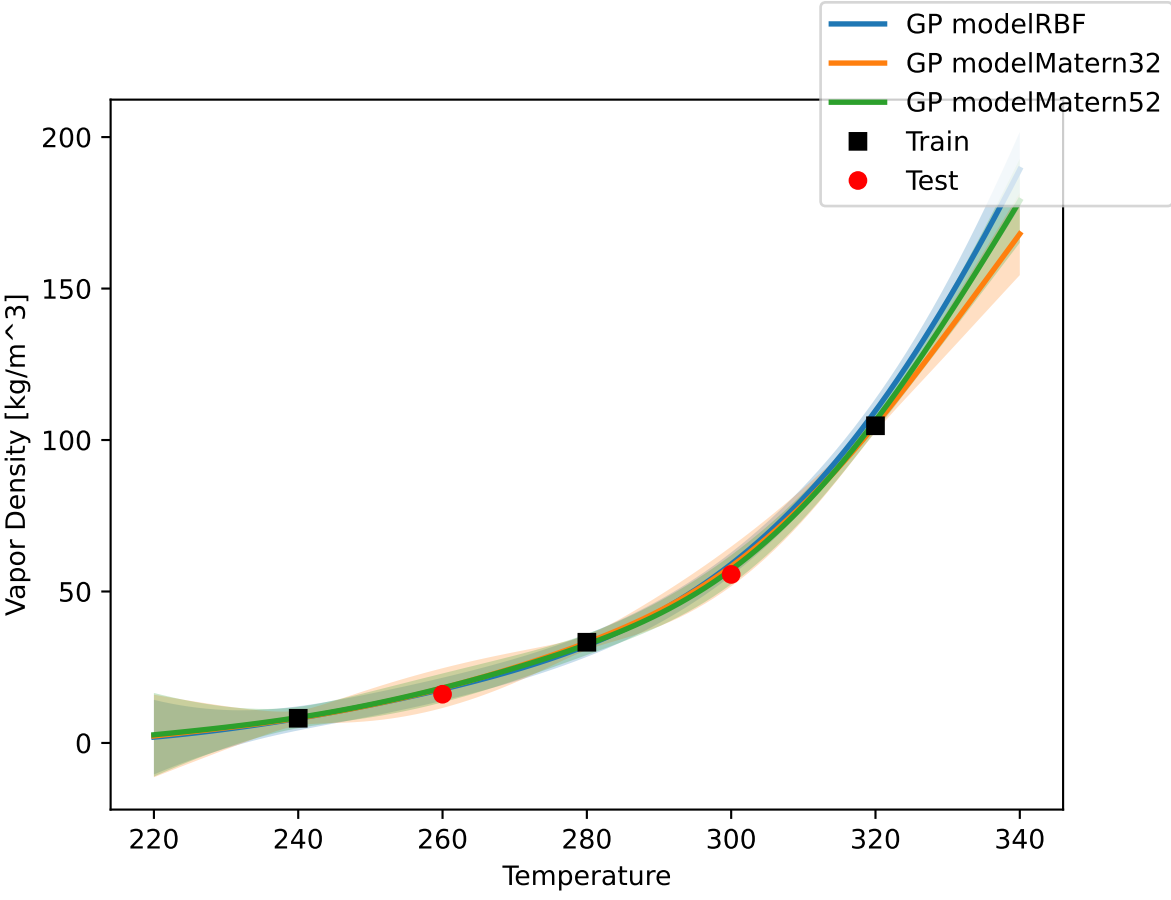

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
100
50
0
220
240
260
280
300
320
340
Temperature

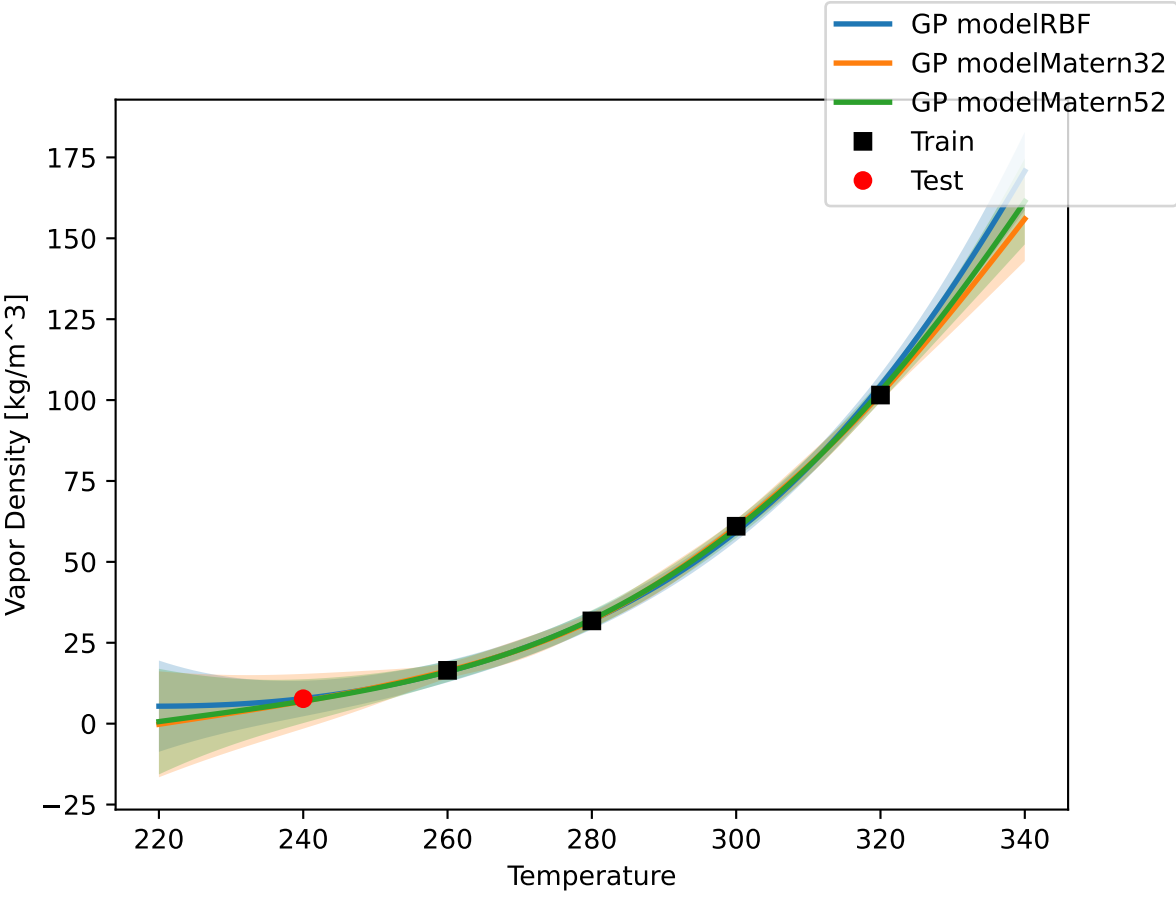

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
220
240
260
280
300
320
340
Temperature

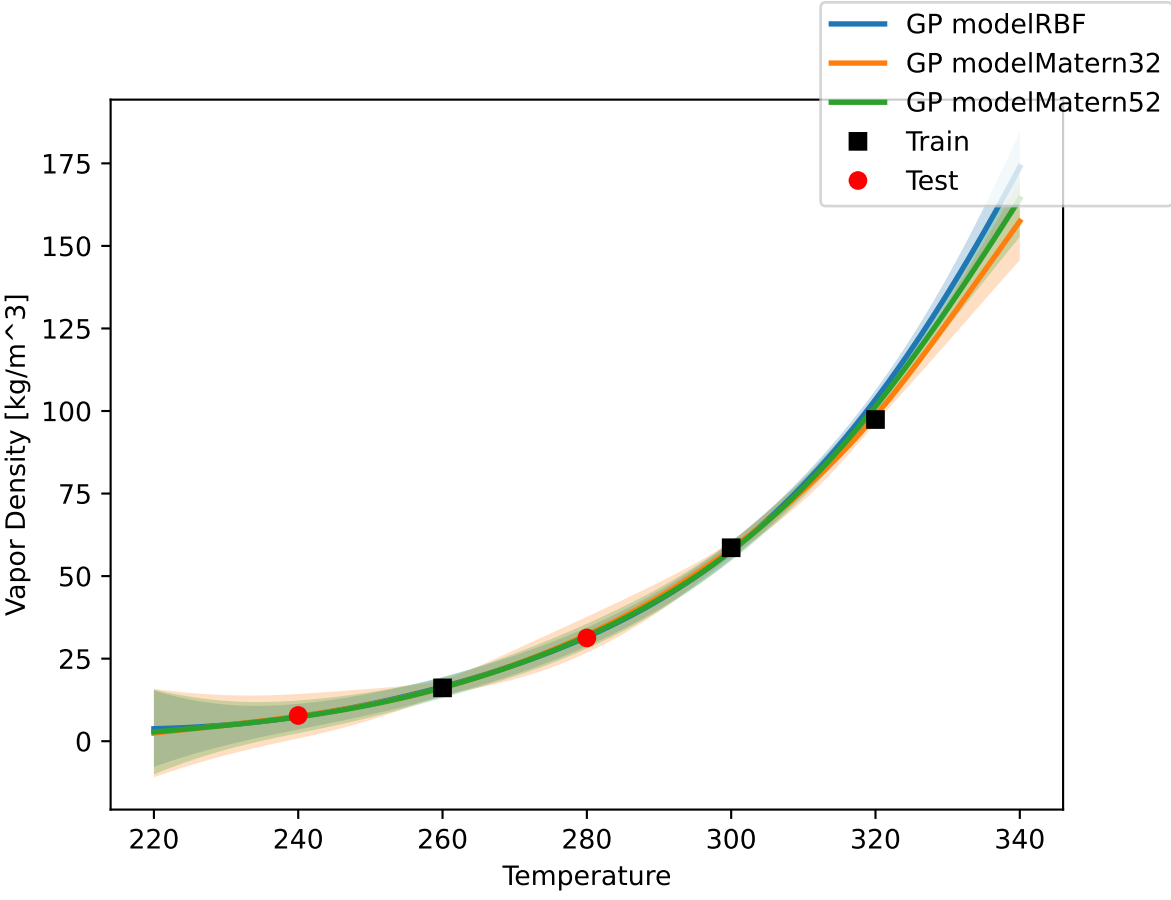

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
200
150
100
50
0
220
240
260
280
300
320
340

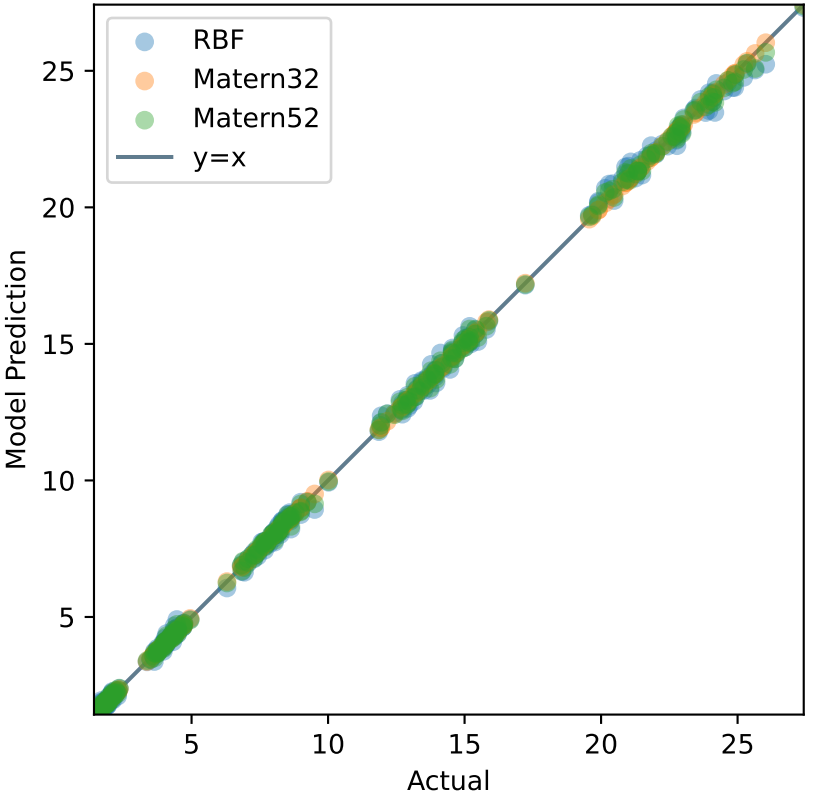

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
200
150
100
50
0
220
240
260
280
300
320
340

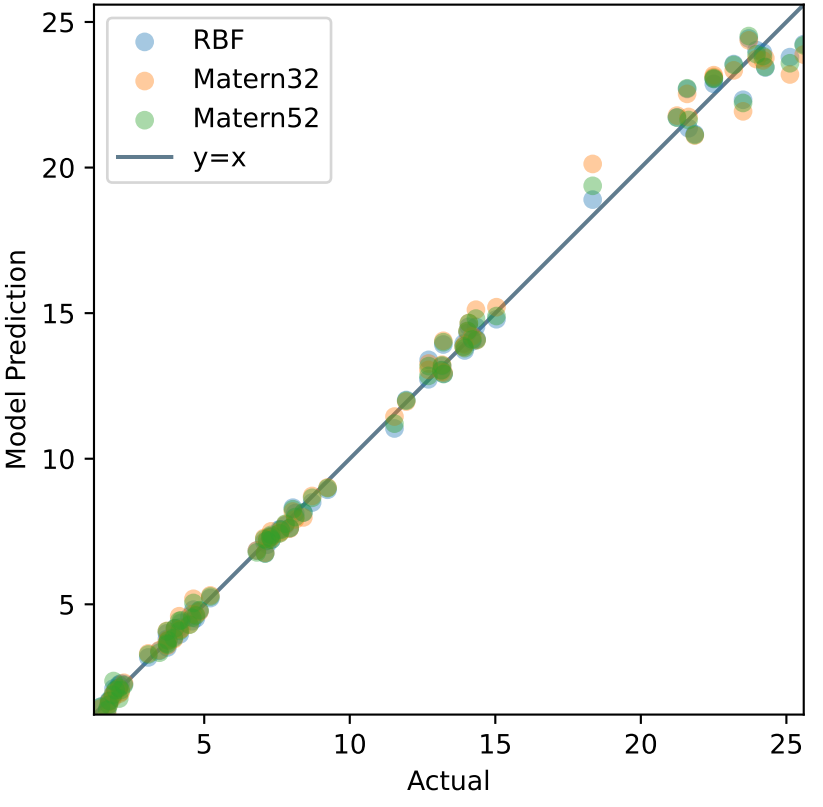

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
200
150
100
50
0
220
240
260
280
300
320
340
Temperature

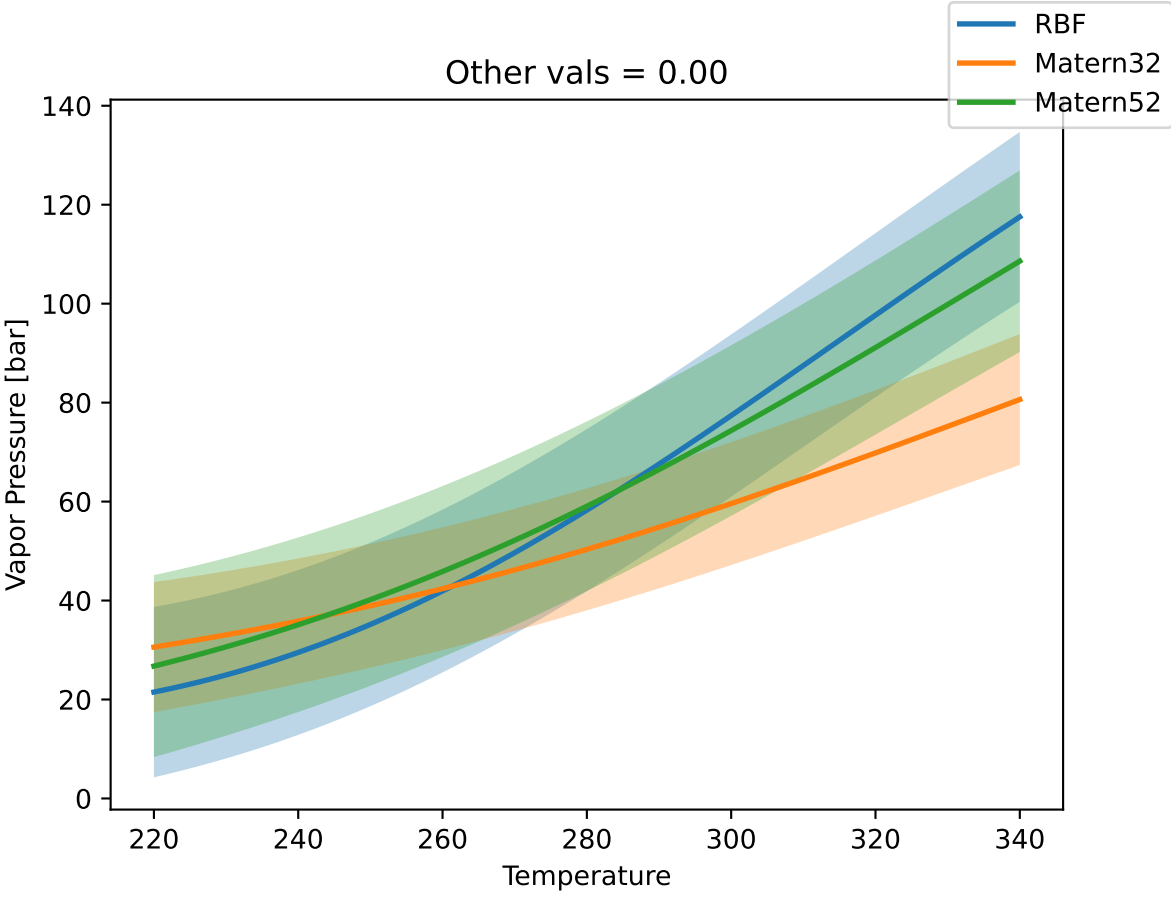

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
200
150
100
50
0
220
240
260
280
300
320
340

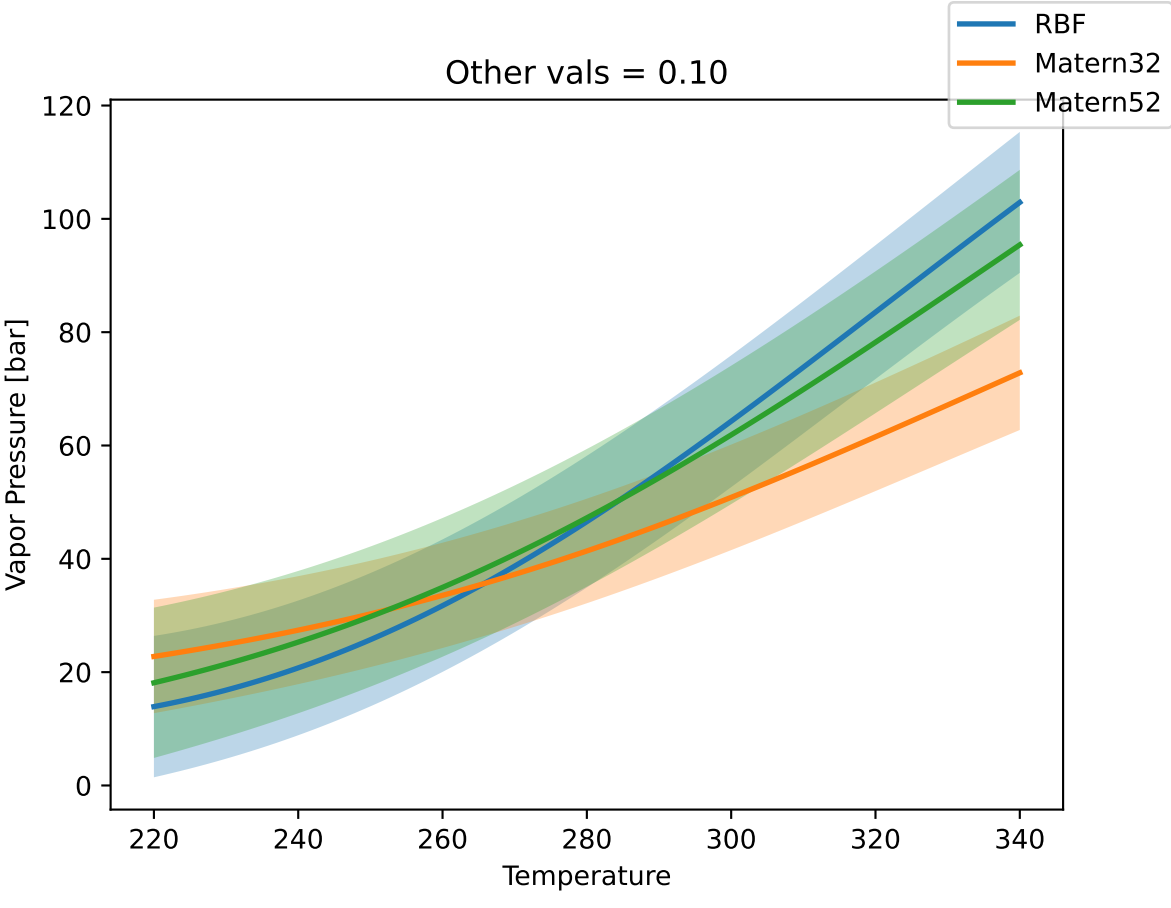

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
Temperature
175
150
125
100
75
50
25
0
−25
220
240
260
280
300
320
340

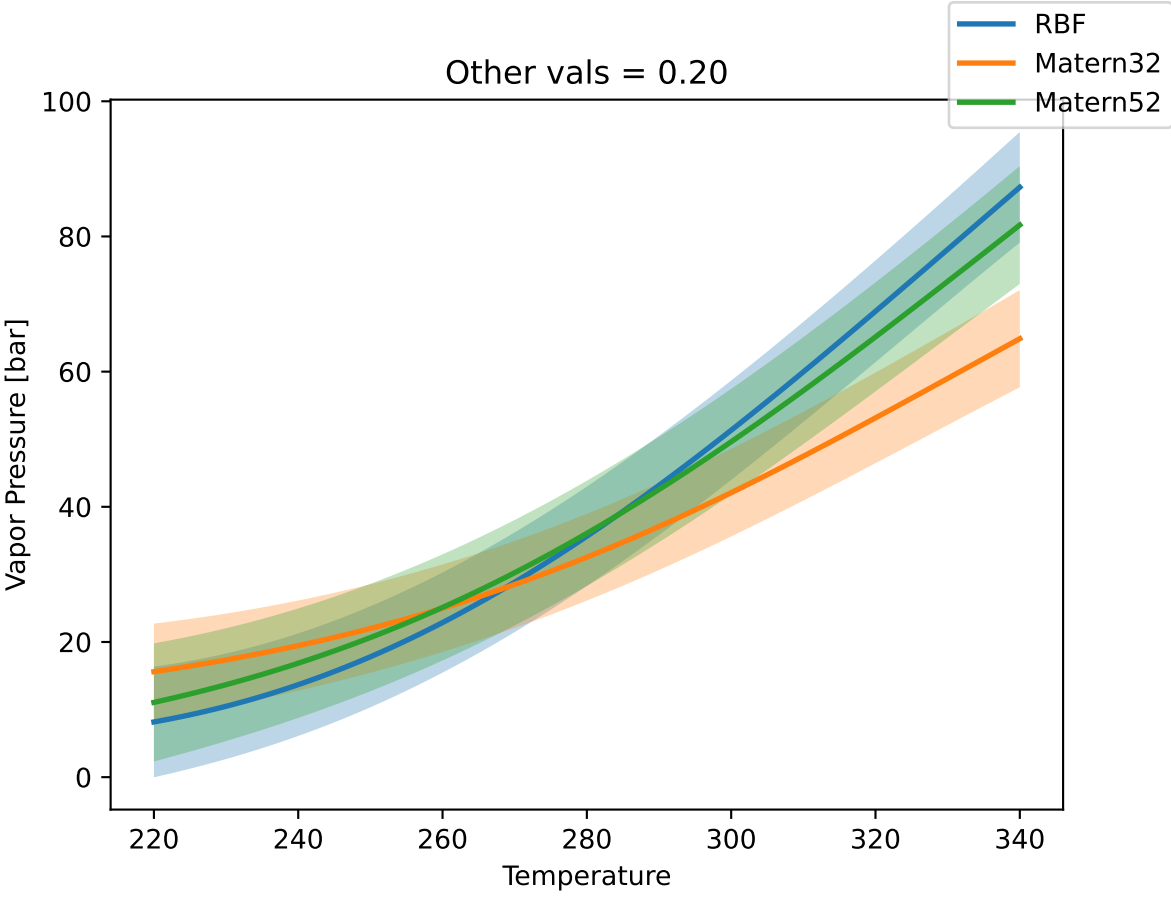

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor Density [kg/m^3]
175
150
125
100
75
50
25
0
220
240
260
280
300
320
340
Temperature

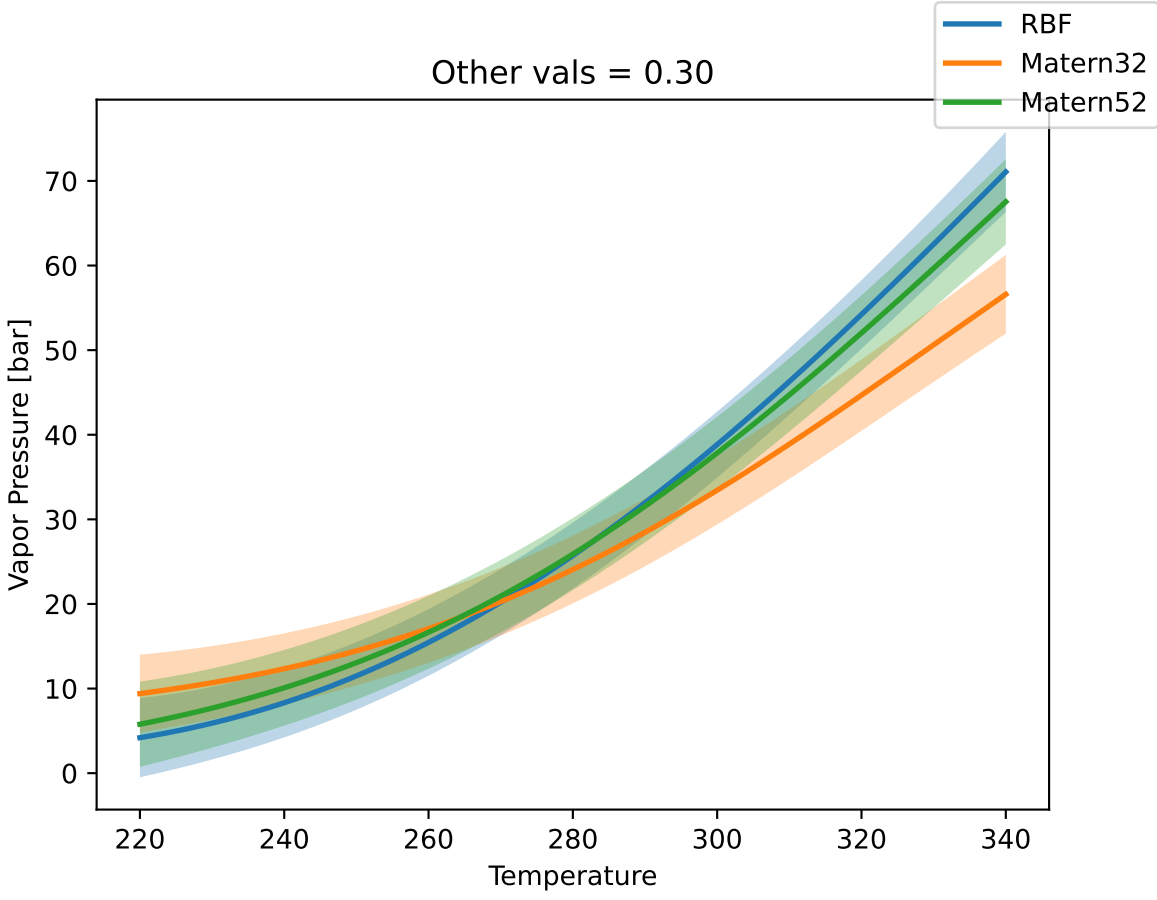

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
5
10
15
20
25
5
10
15
20
25

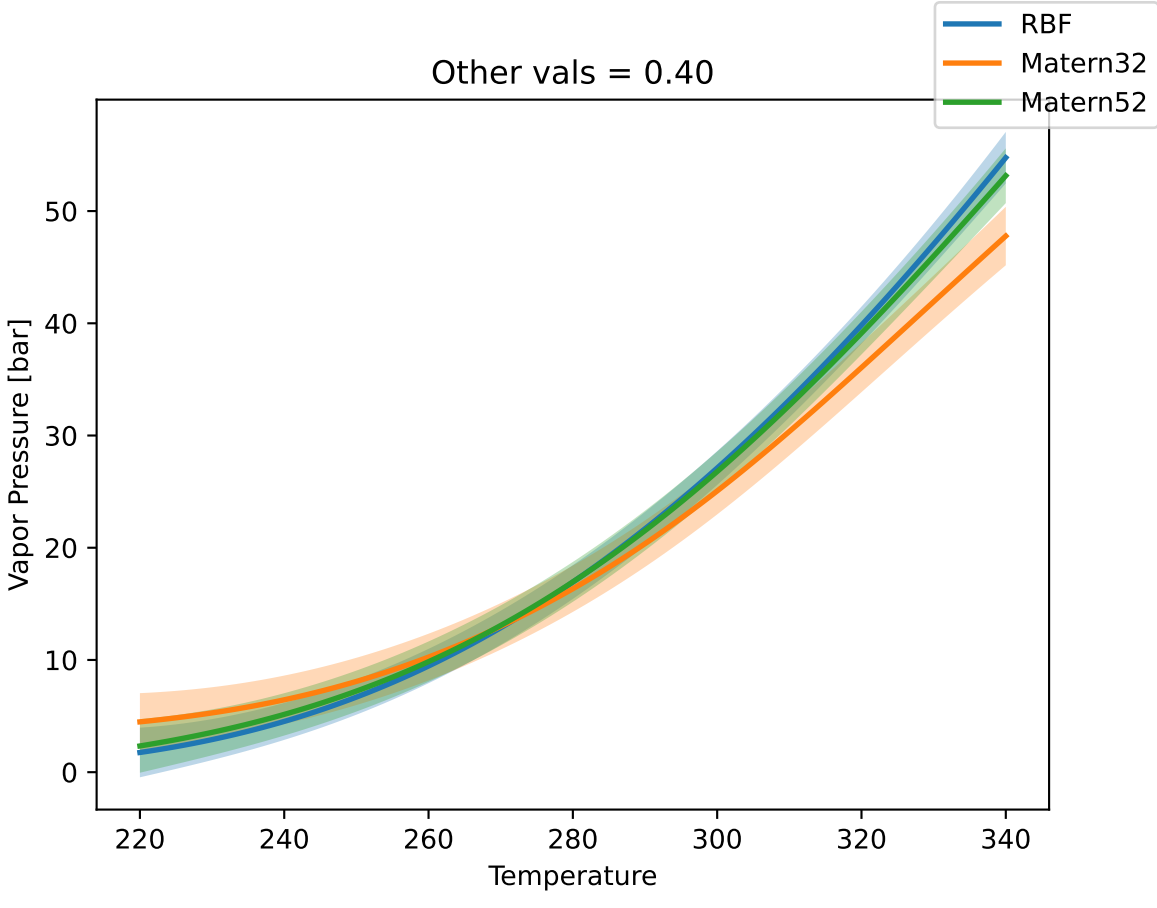

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
5
10
15
20
25

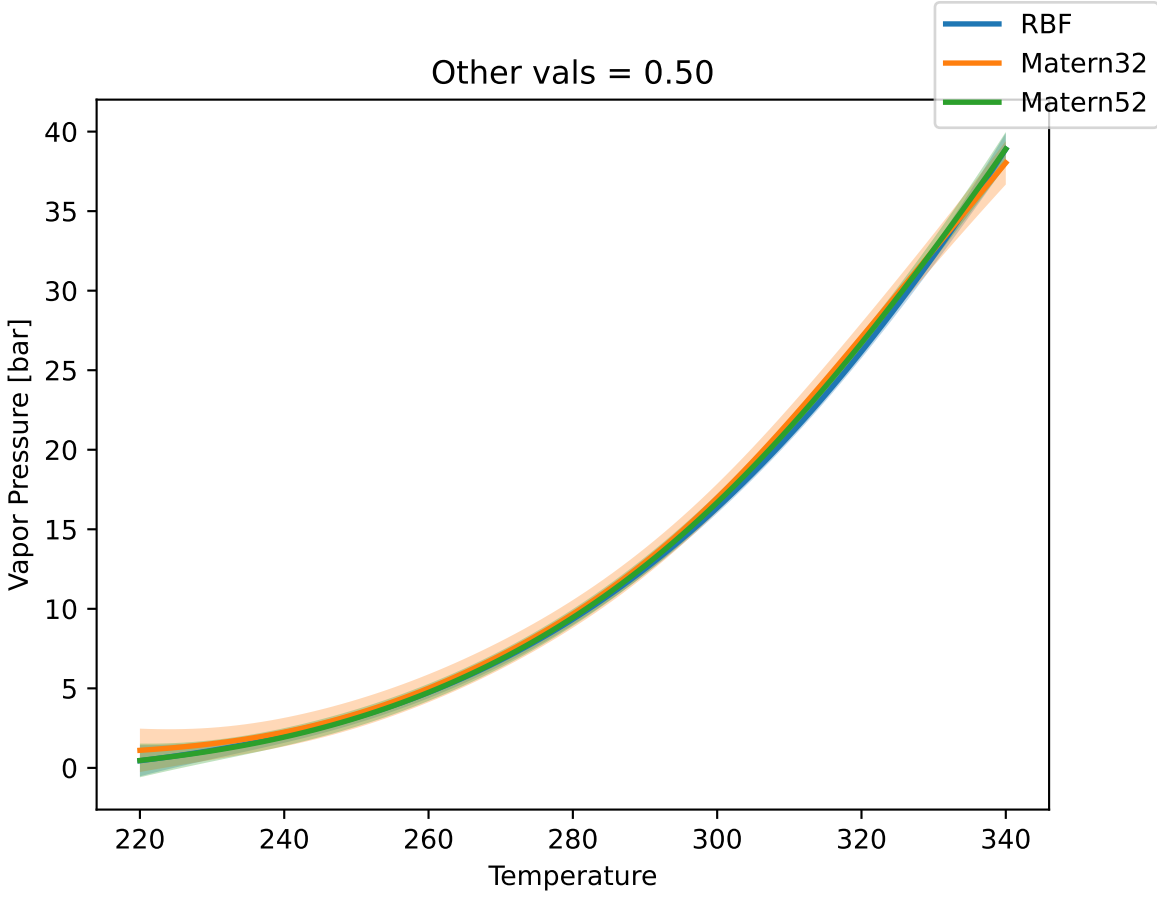

RBF
Matern32
Matern52
Other vals = 0.00
Vapor Pressure [bar]
Temperature
0
20
40
60
80
100
120
140
220
240
260
280
300
320
340

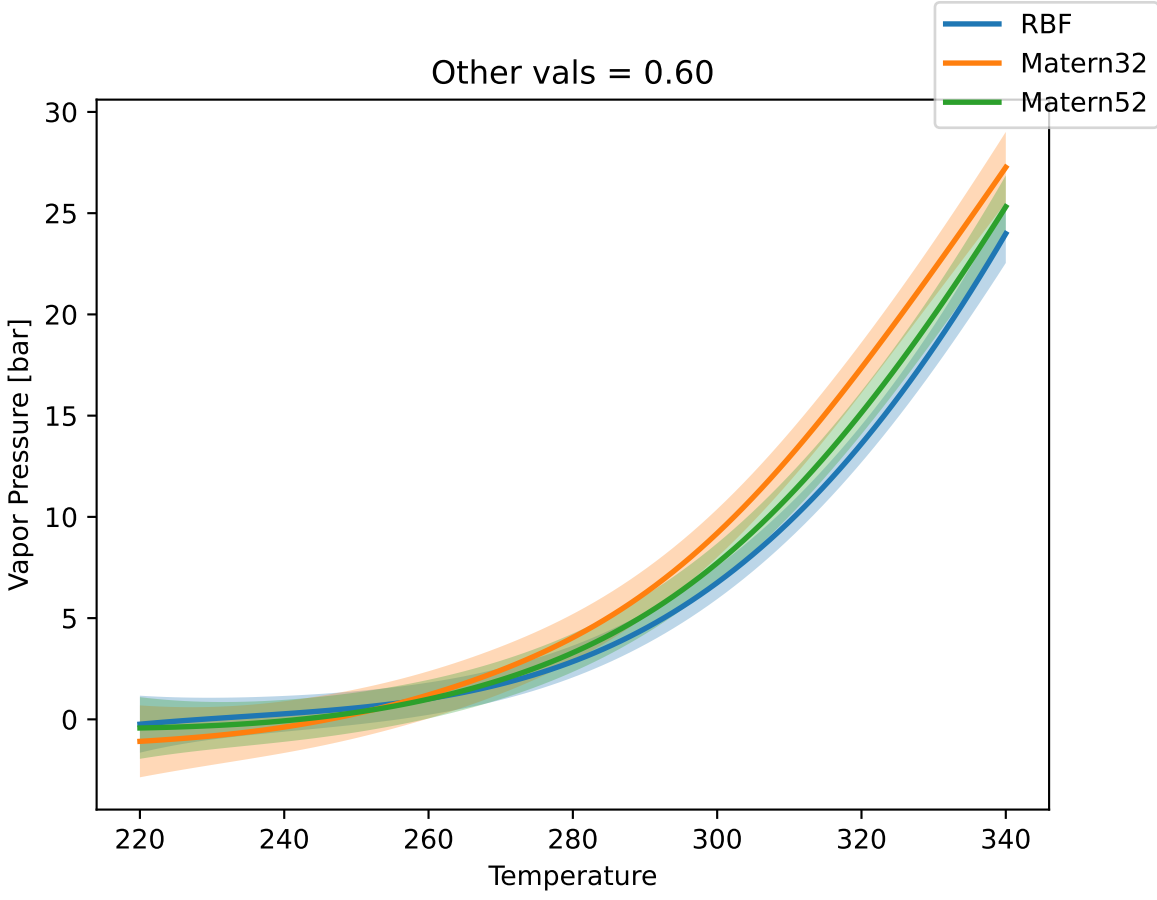

RBF
Matern32
Matern52
Other vals = 0.10
Vapor Pressure [bar]
Temperature
0
20
40
60
80
100
120
220
240
260
280
300
320
340

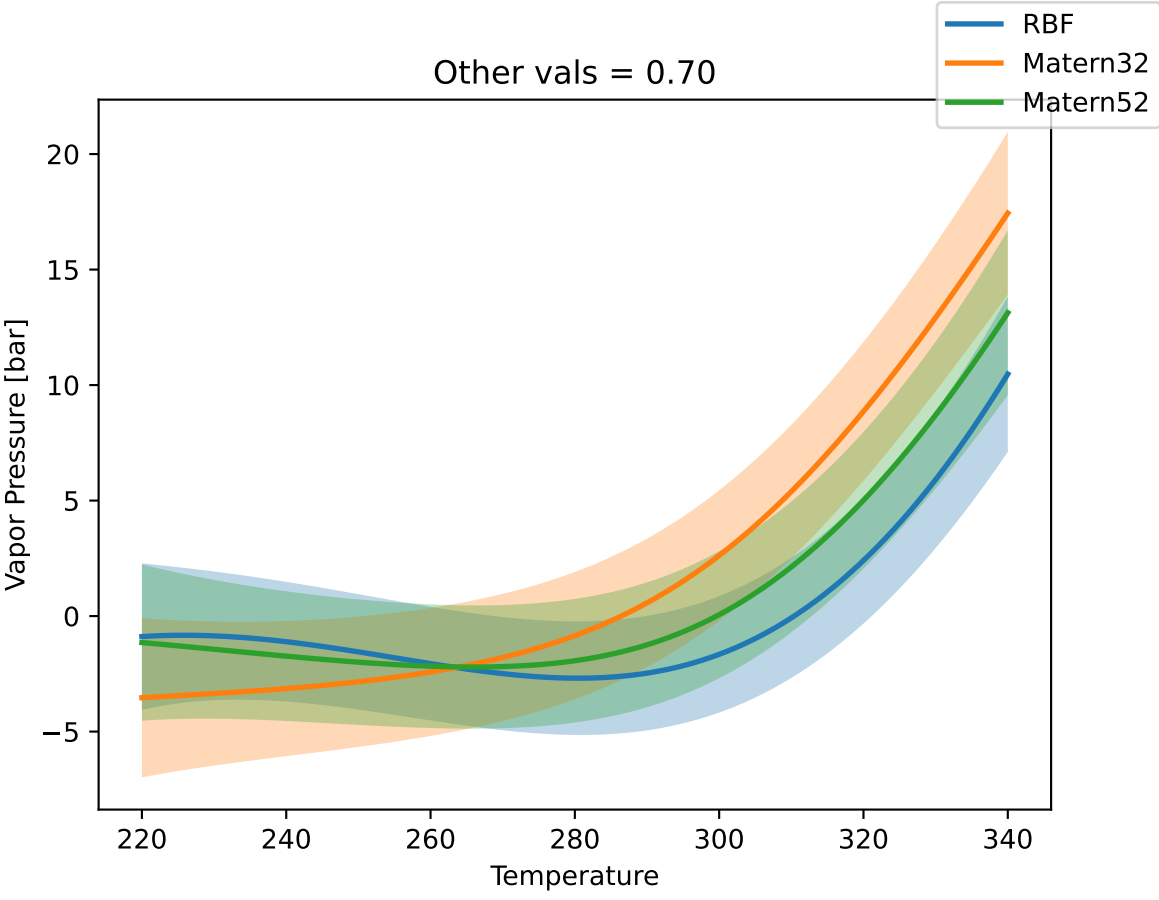

RBF
Matern32
Matern52
Other vals = 0.20
Vapor Pressure [bar]
Temperature
100
80
60
40
20
0
220
240
260
280
300
320
340

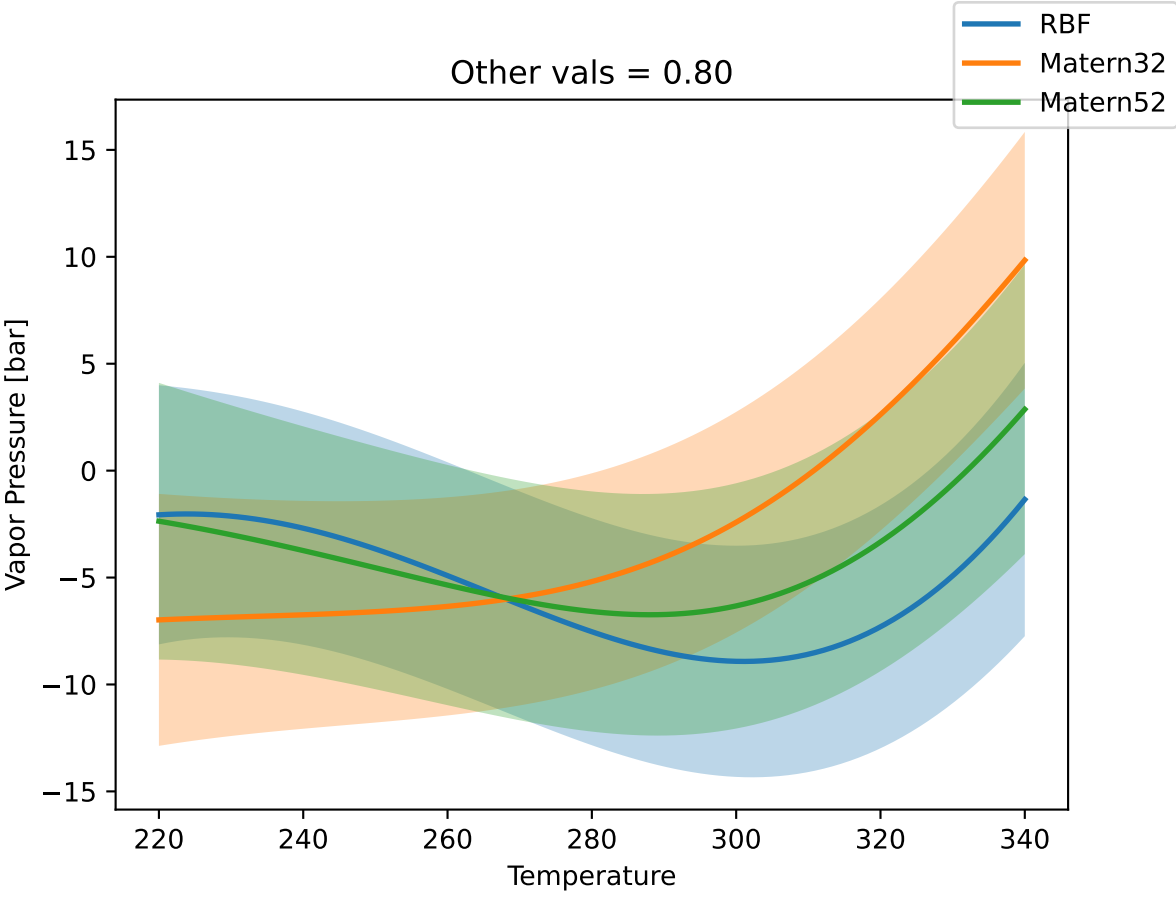

RBF
Matern32
Matern52
Other vals = 0.30
Vapor Pressure [bar]
Temperature
0
10
20
30
40
50
60
70
220
240
260
280
300
320
340

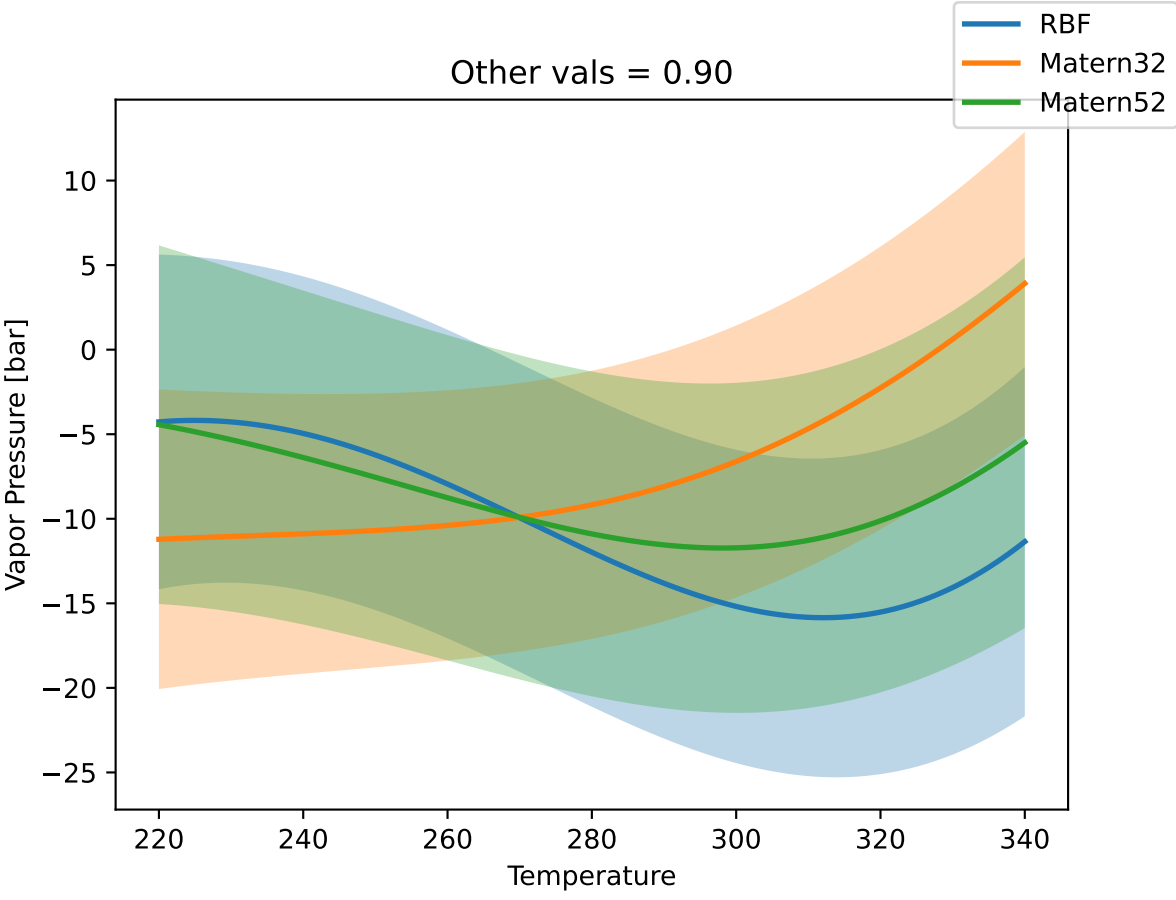

RBF
Matern32
Matern52
Other vals = 0.40
Vapor Pressure [bar]
Temperature
0
10
20
30
40
50
220
240
260
280
300
320
340

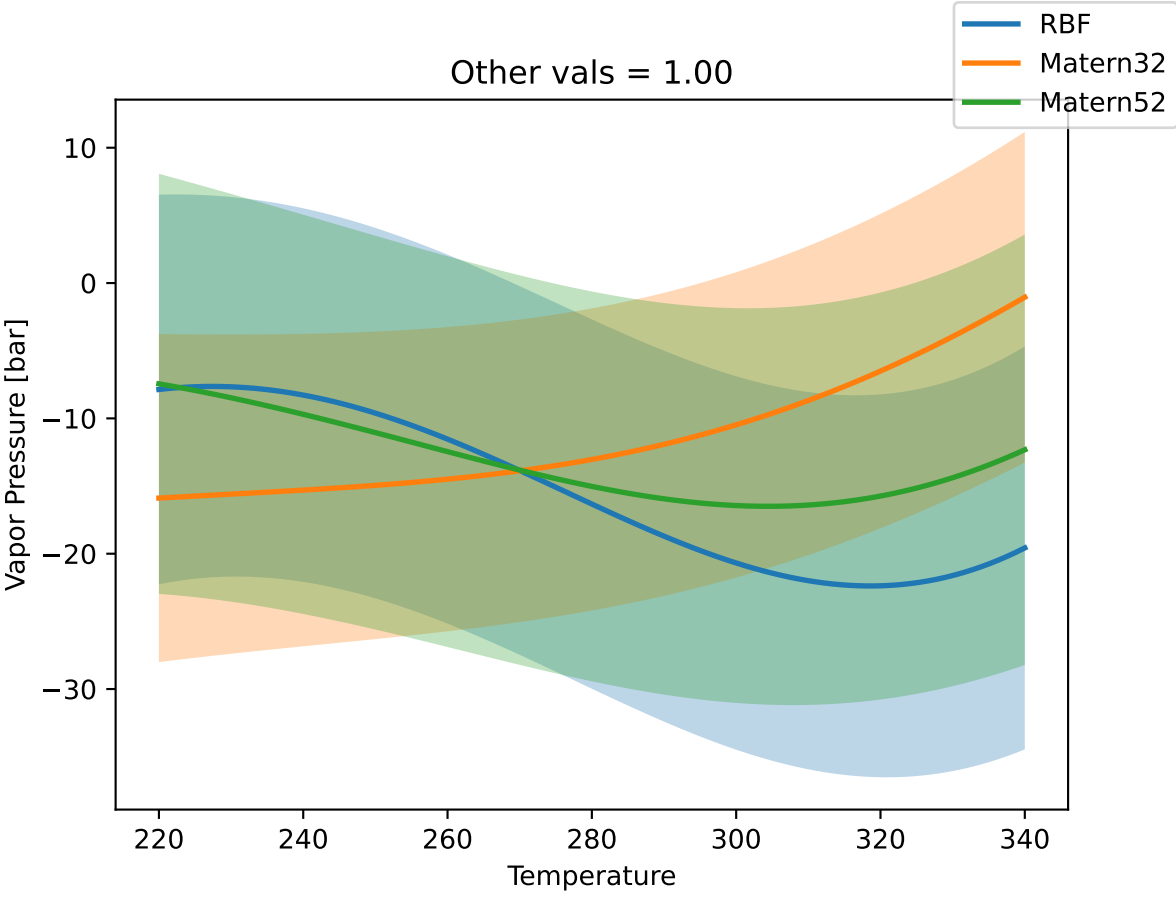

RBF
Matern32
Matern52
Other vals = 0.50
Vapor Pressure [bar]
Temperature
40
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

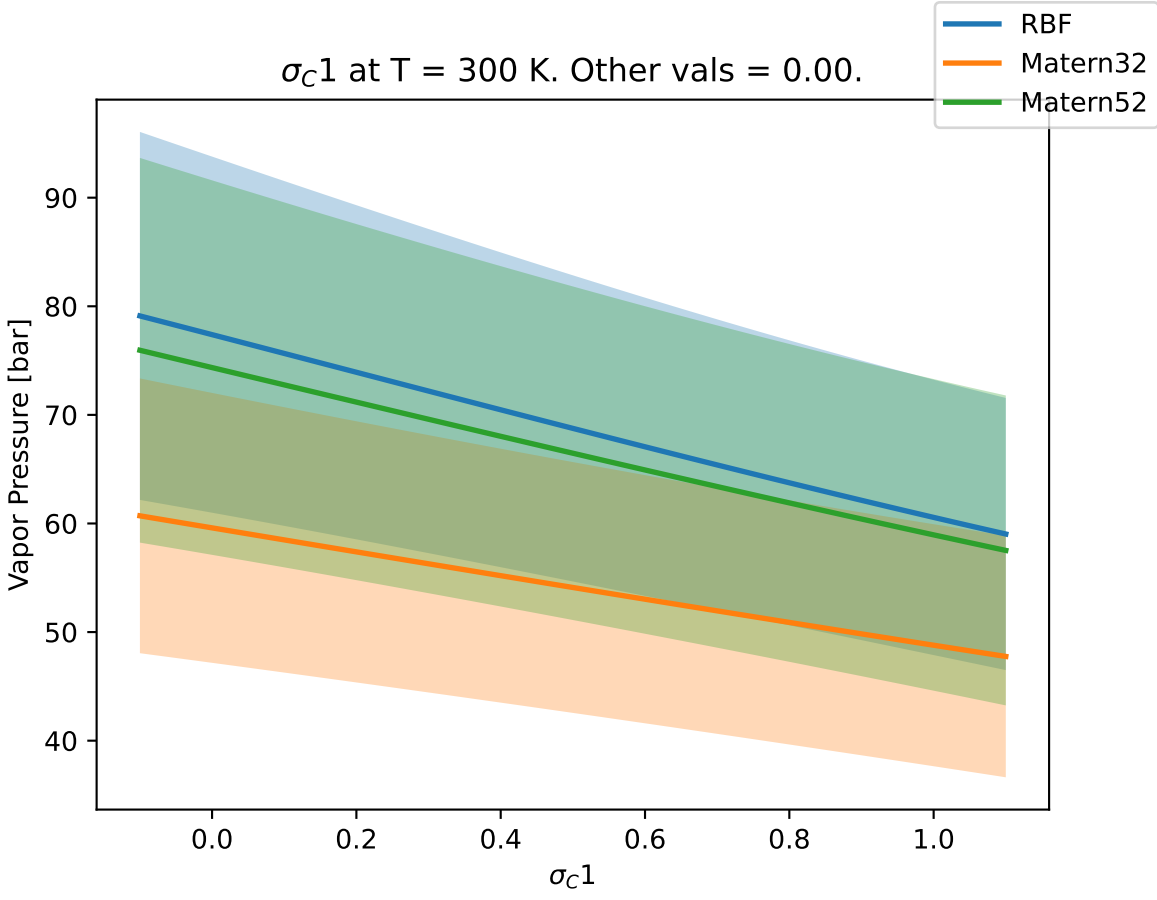

RBF
Matern32
Matern52
Other vals = 0.60
Vapor Pressure [bar]
Temperature
30
25
20
15
10
5
0
220
240
260
280
300
320
340

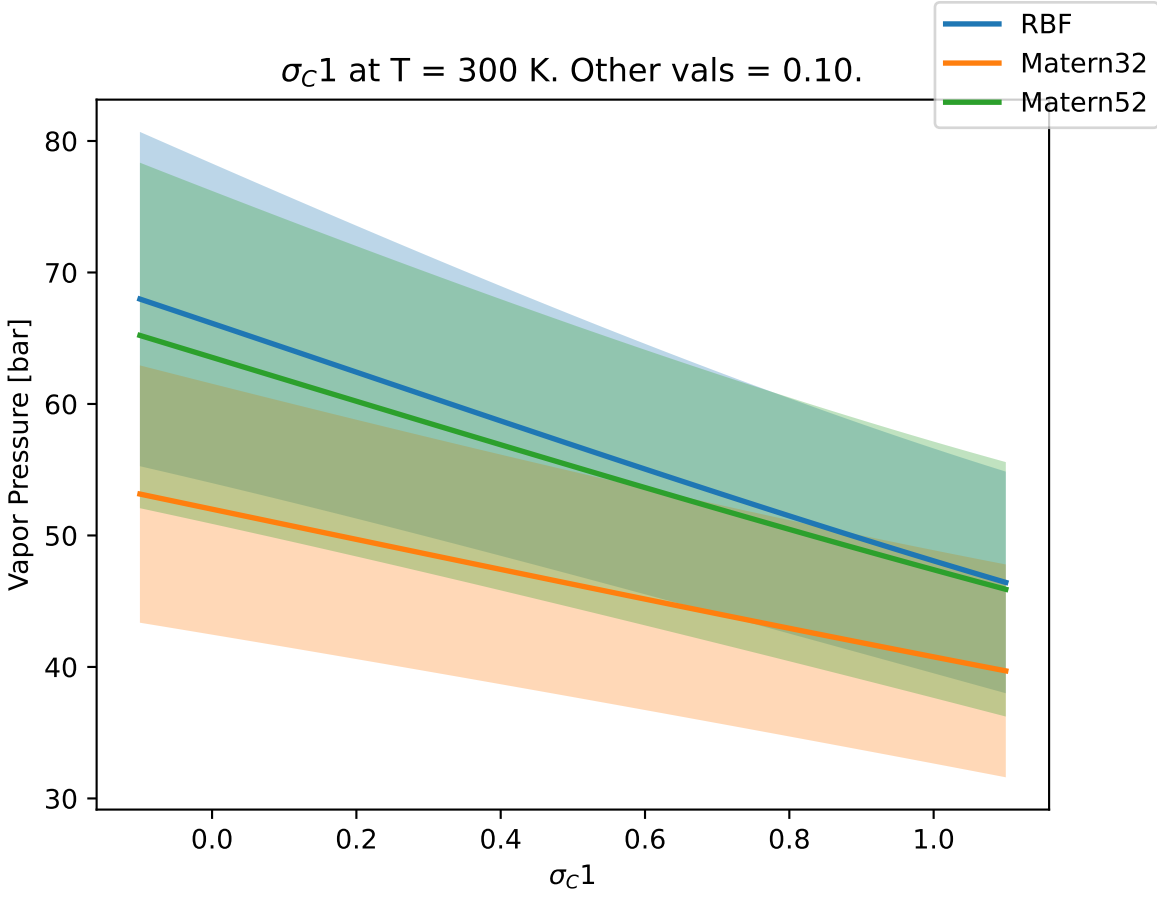

RBF
Matern32
Matern52
Other vals = 0.70
Vapor Pressure [bar]
Temperature
20
15
10
5
0
−5
220
240
260
280
300
320
340

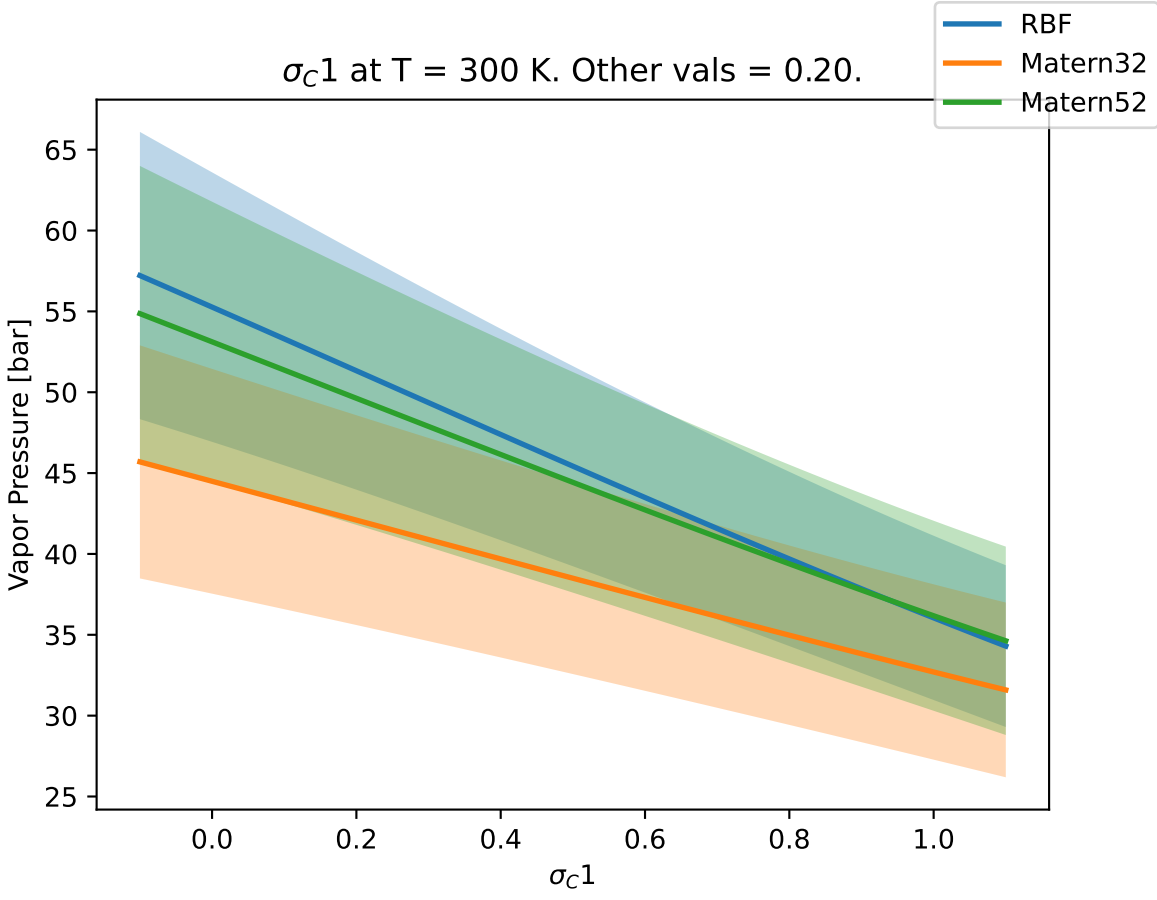

RBF
Matern32
Matern52
Other vals = 0.80
Vapor Pressure [bar]
Temperature
15
10
5
0
−5
−10
−15
220
240
260
280
300
320
340

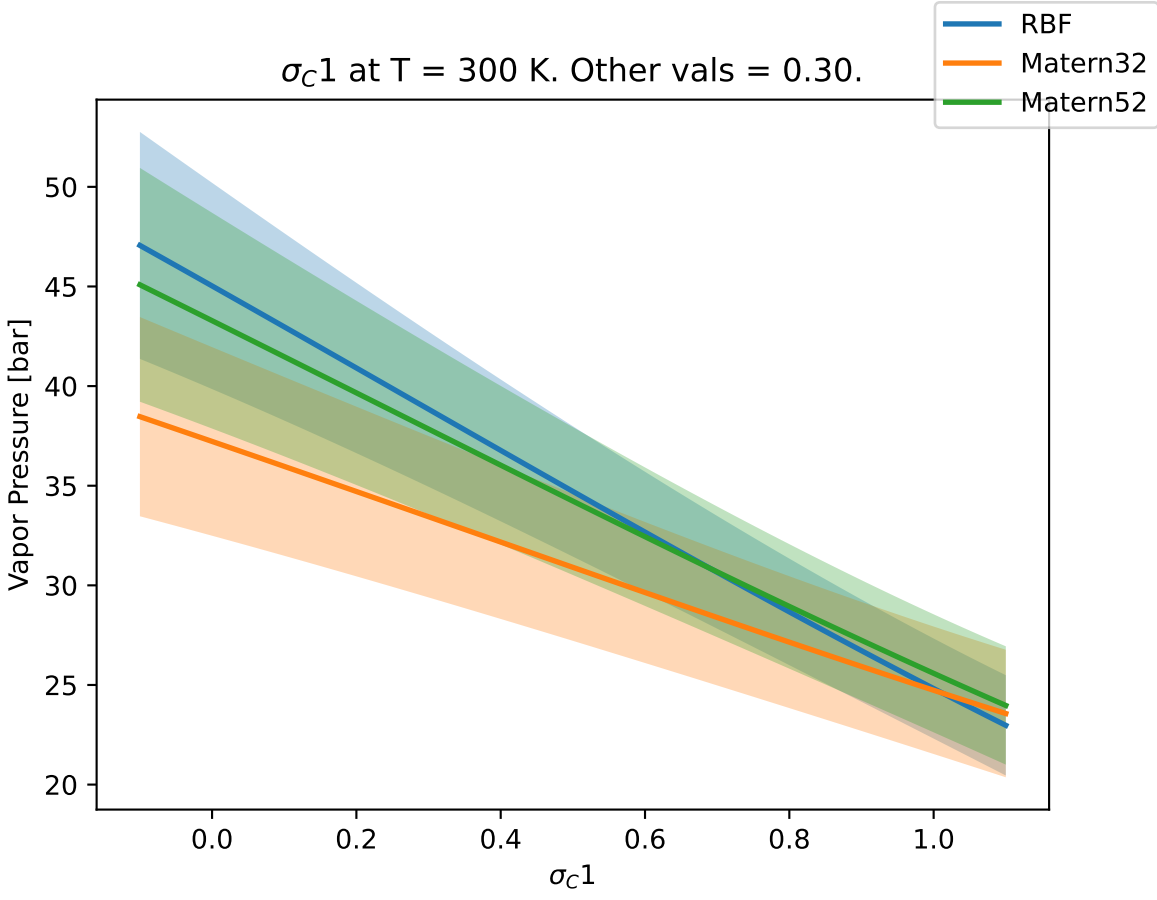

RBF
Matern32
Matern52
Other vals = 0.90
Vapor Pressure [bar]
Temperature
10
5
0
−5
−10
−15
−20
−25
220
240
260
280
300
320
340

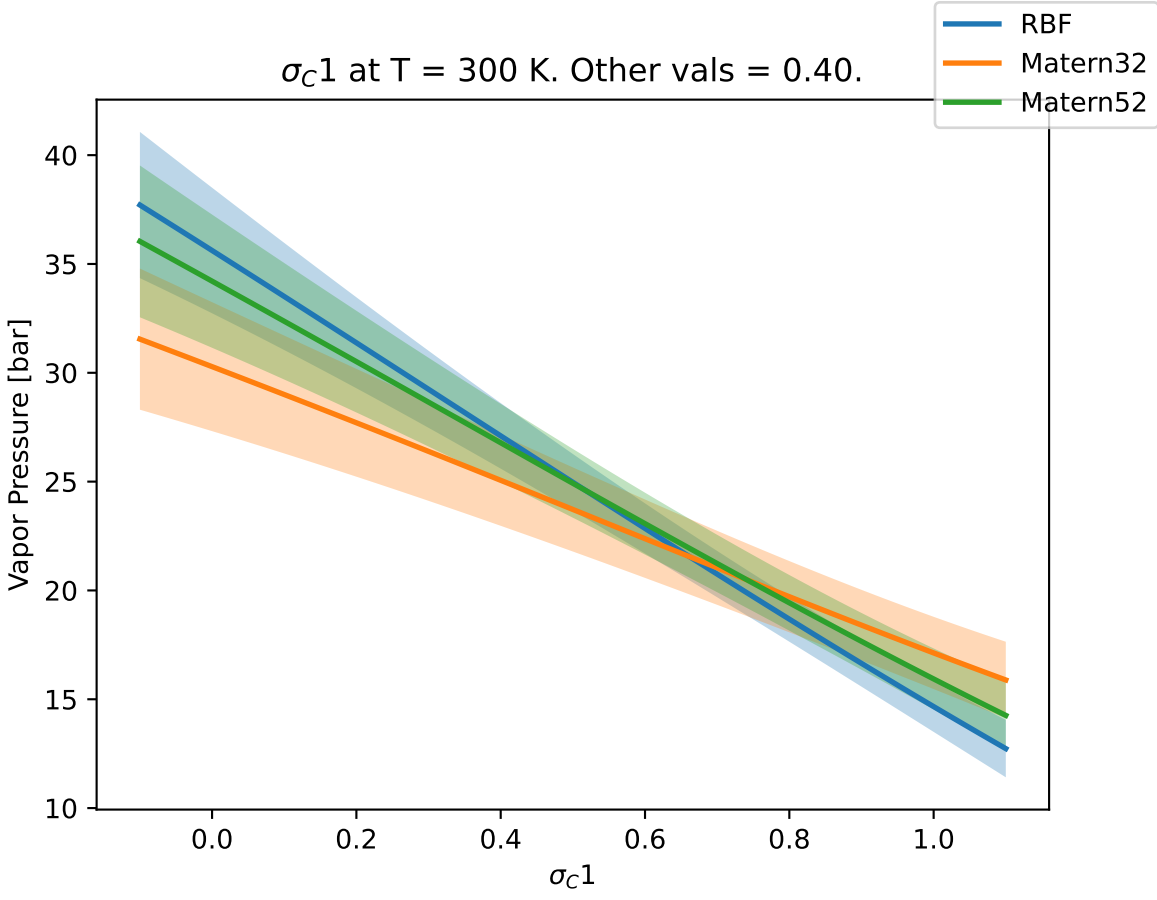

RBF
Matern32
Matern52
Other vals = 1.00
10
0
−10
−20
−30
Vapor Pressure [bar]
220
240
260
280
300
320
340
Temperature

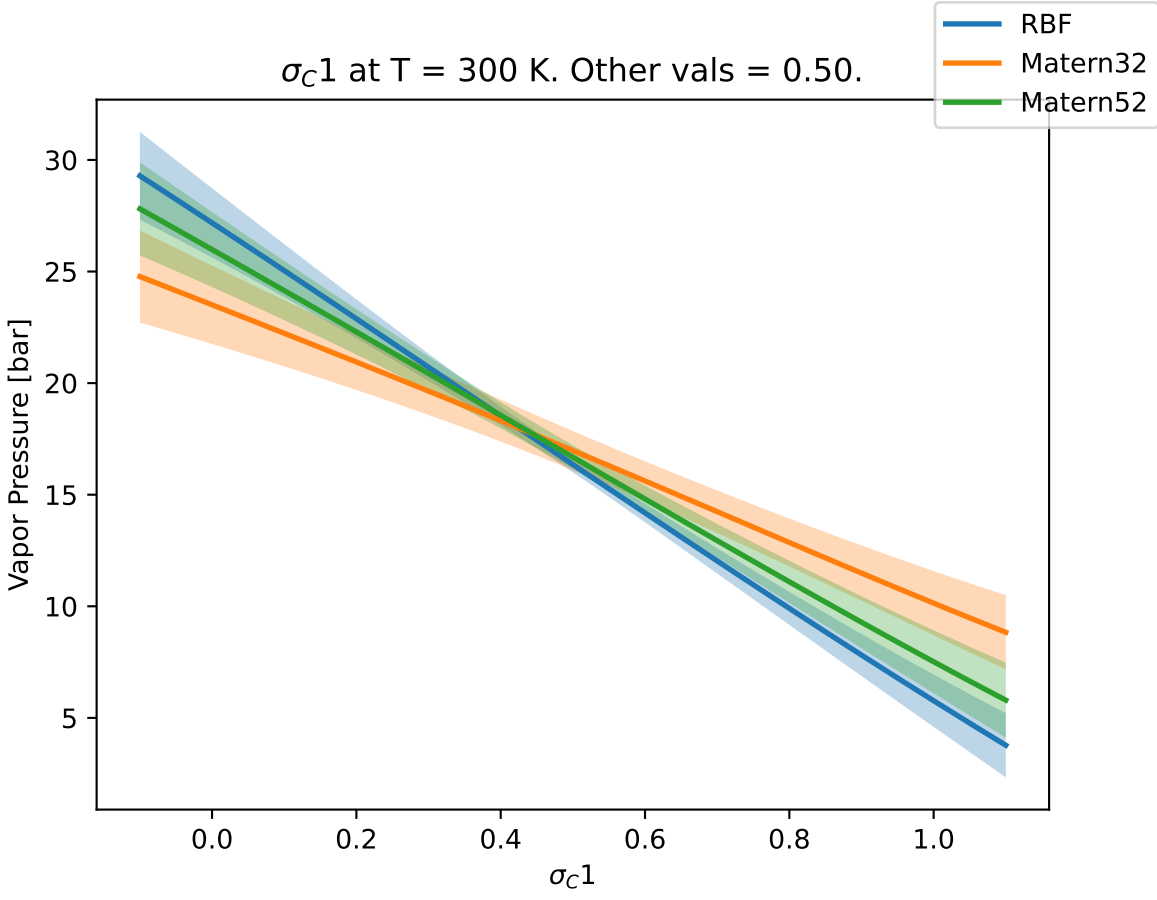

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

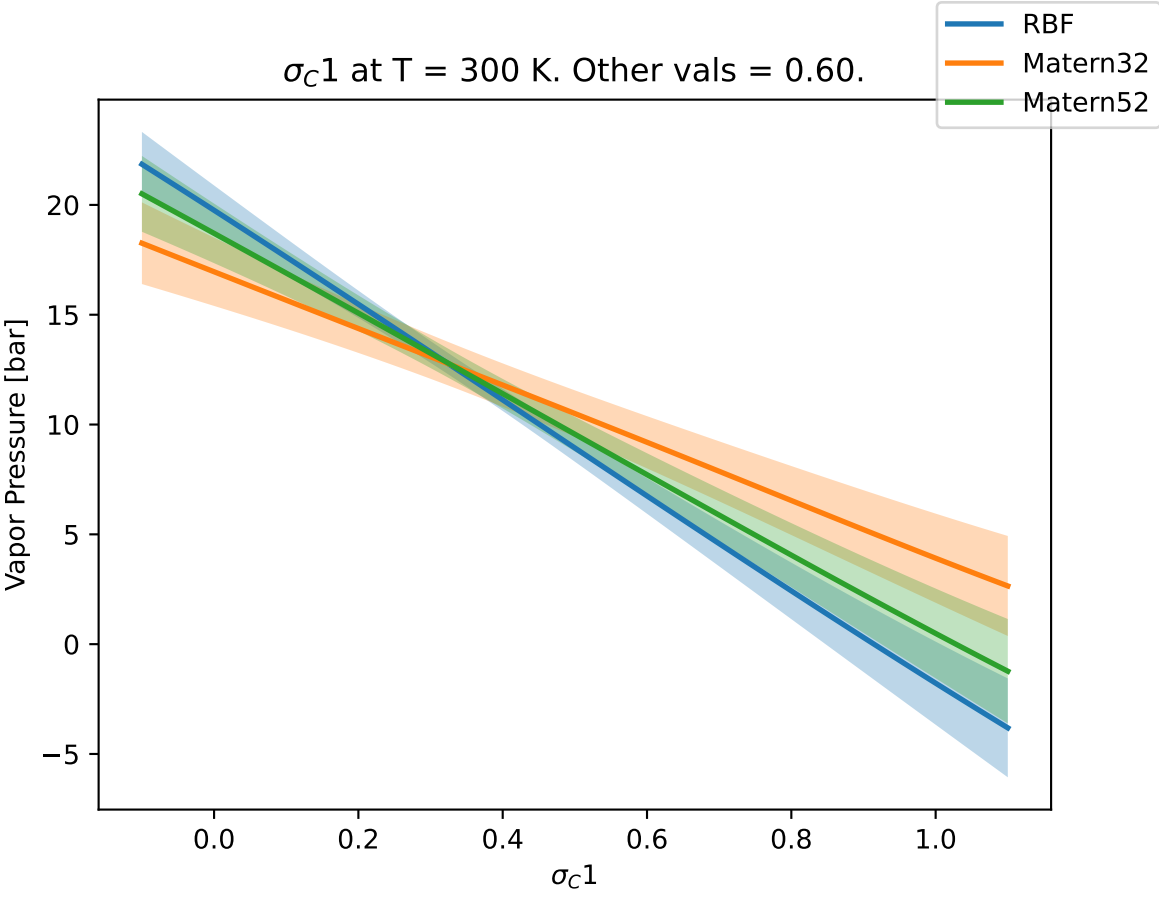

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

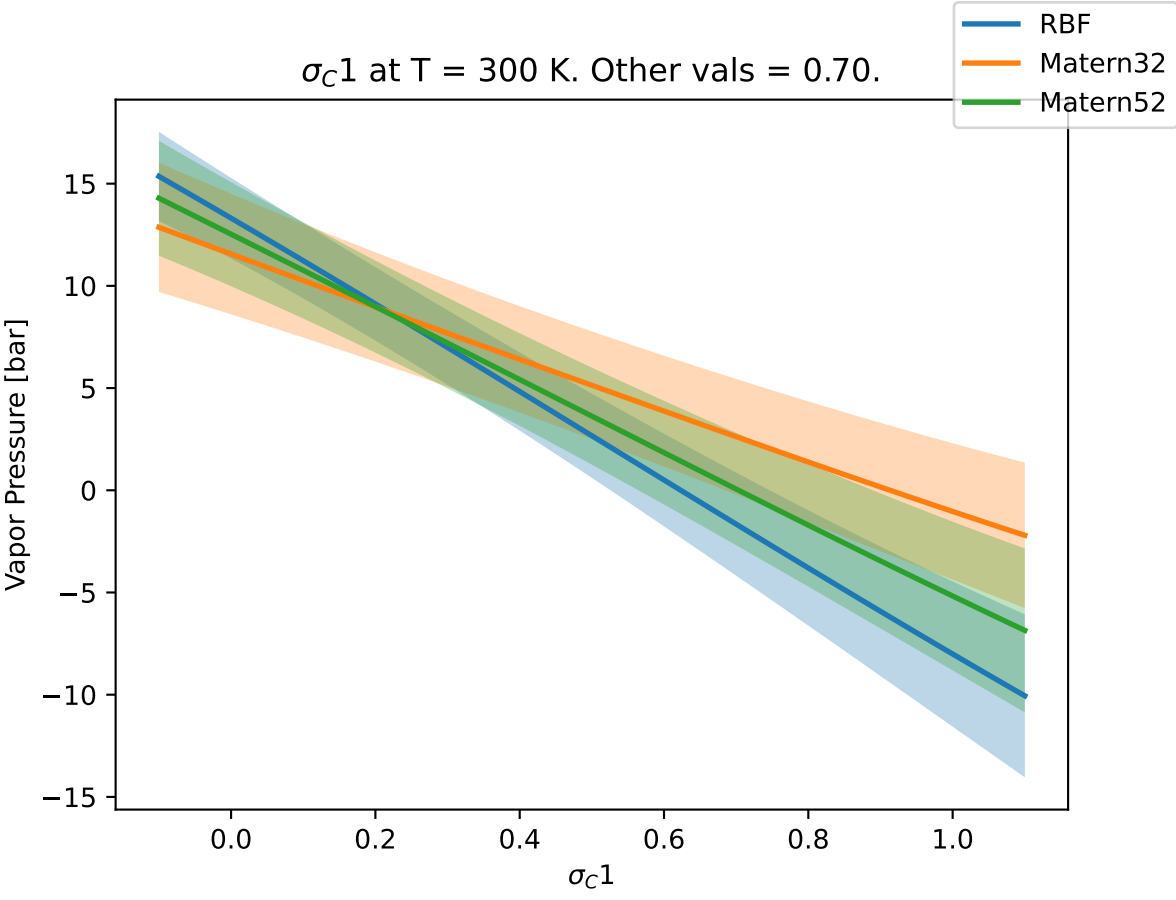

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
65
60
55
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

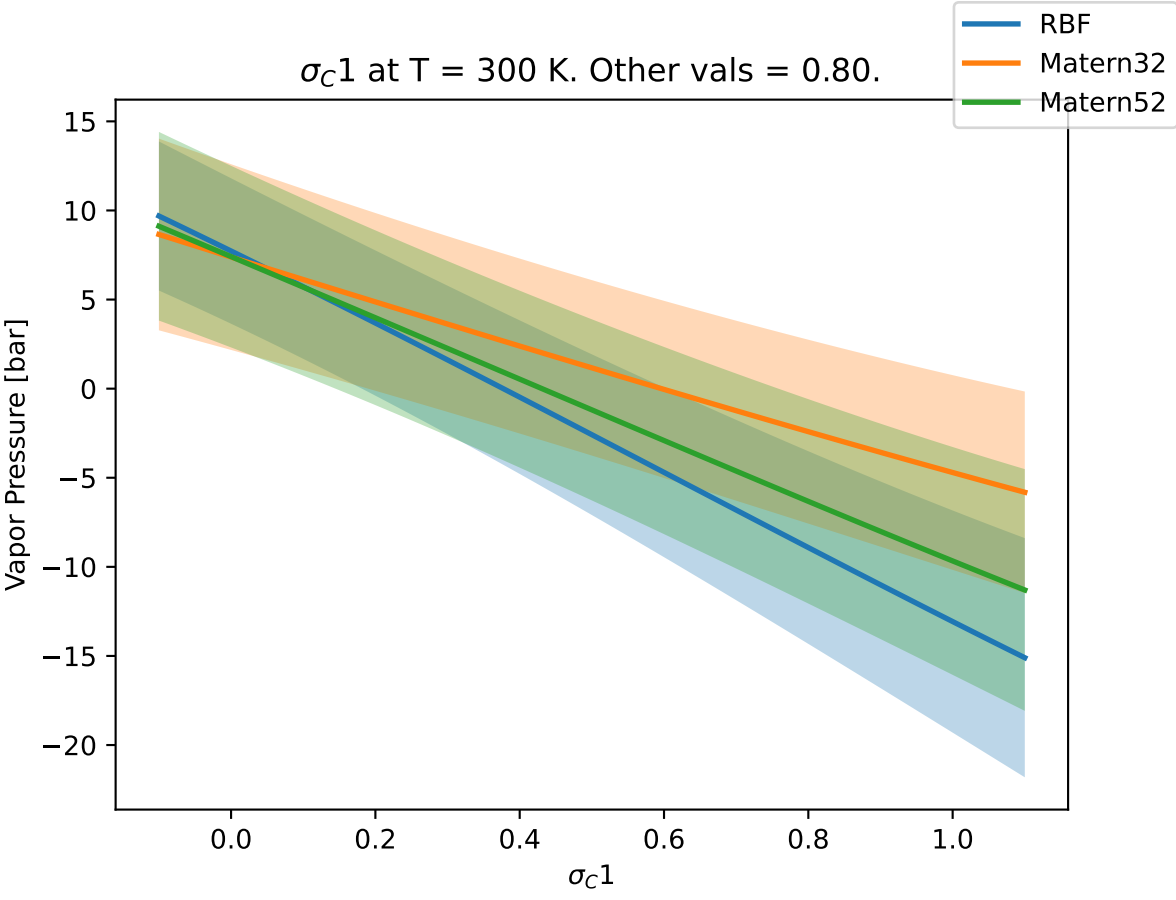

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
50
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

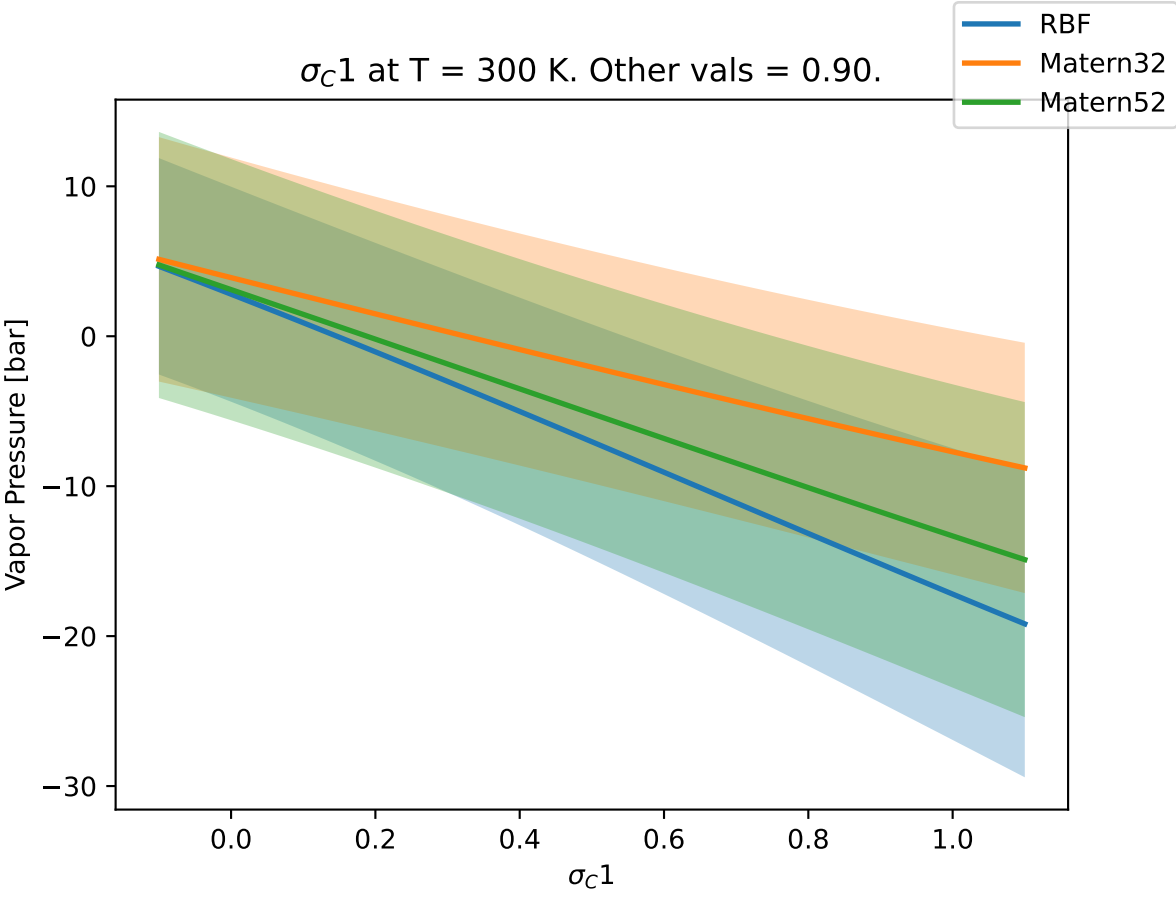

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
40
35
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

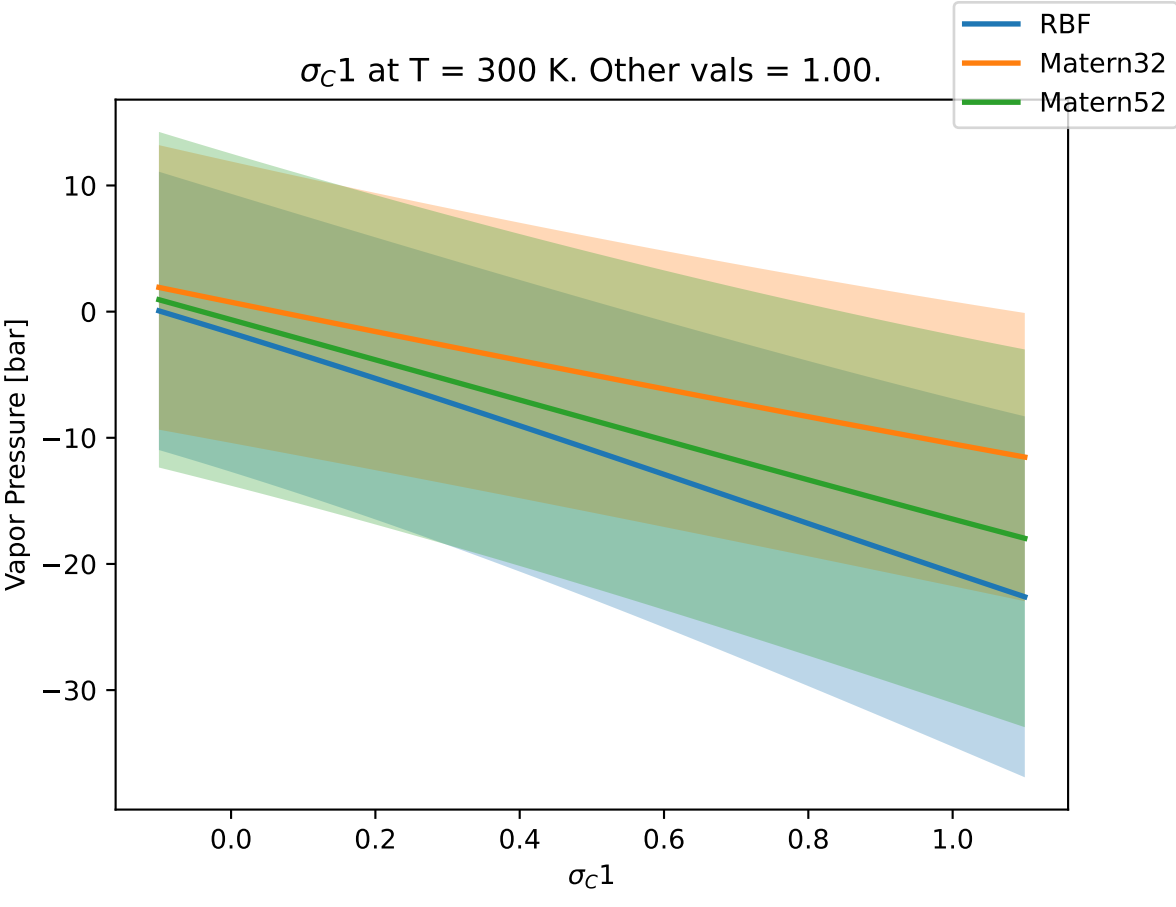

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

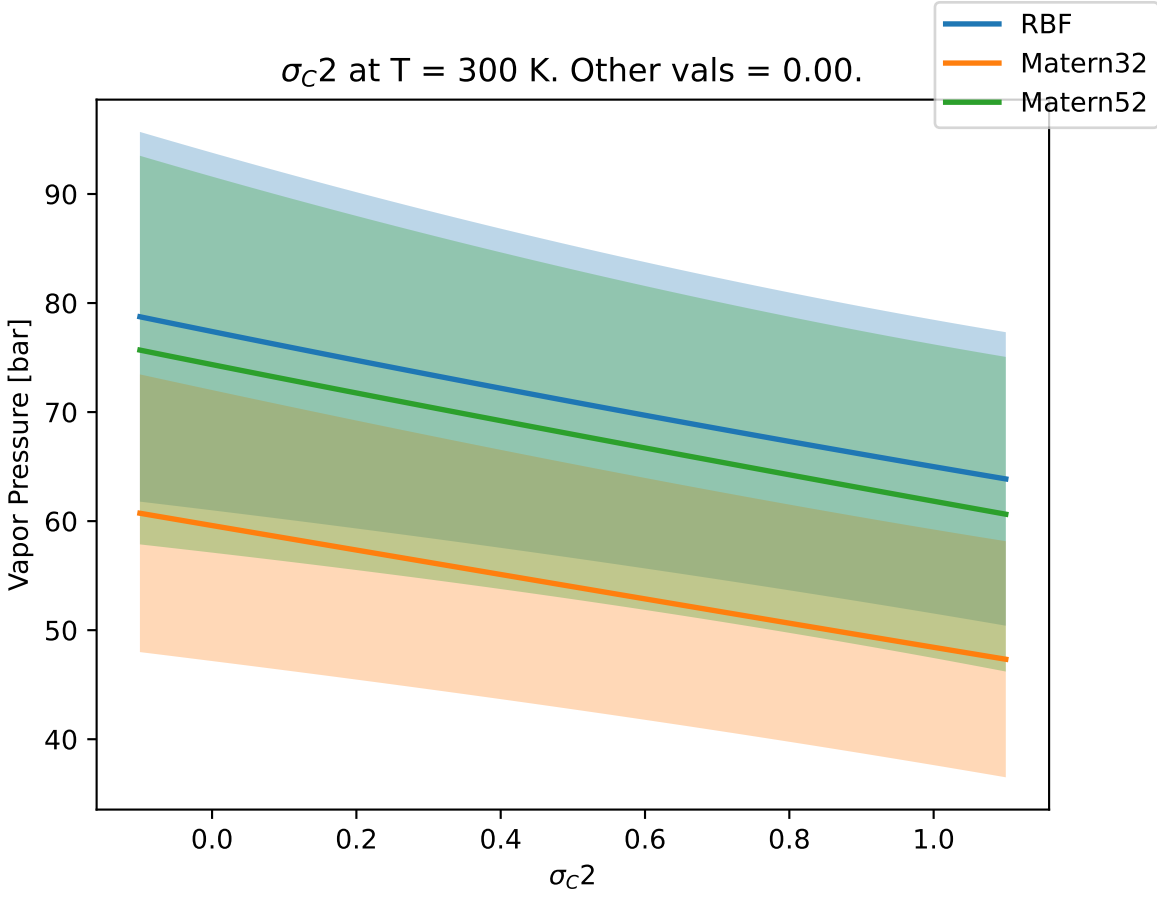

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
20
15
10
5
0
−5
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

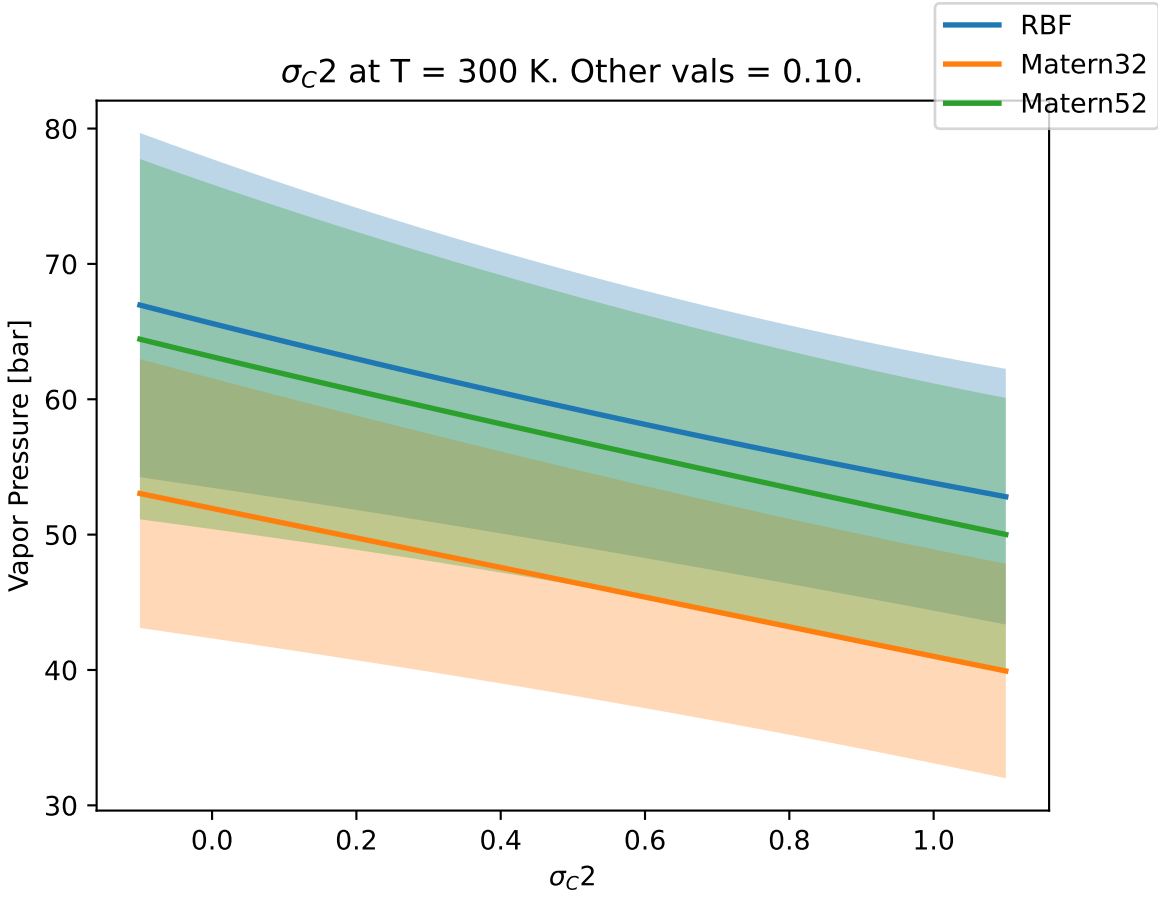

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
15
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

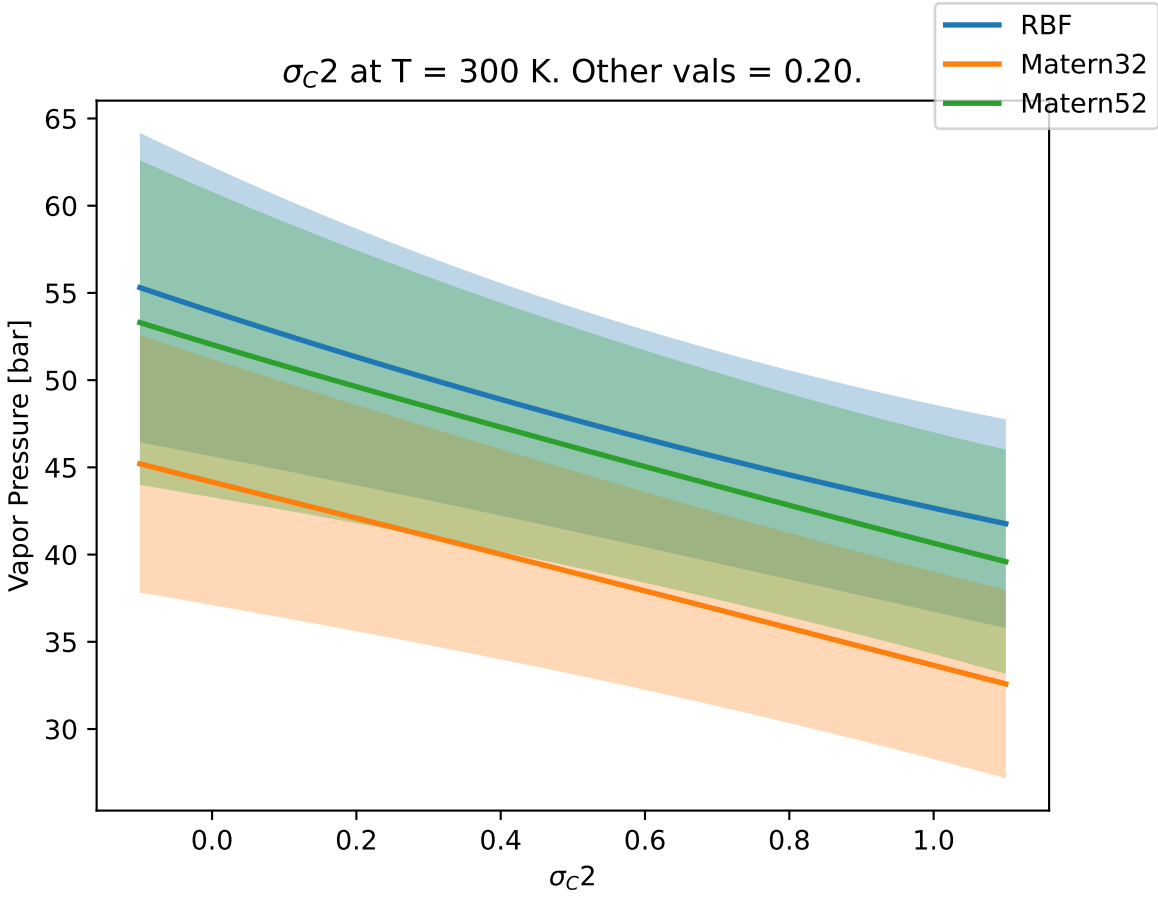

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
15
10
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

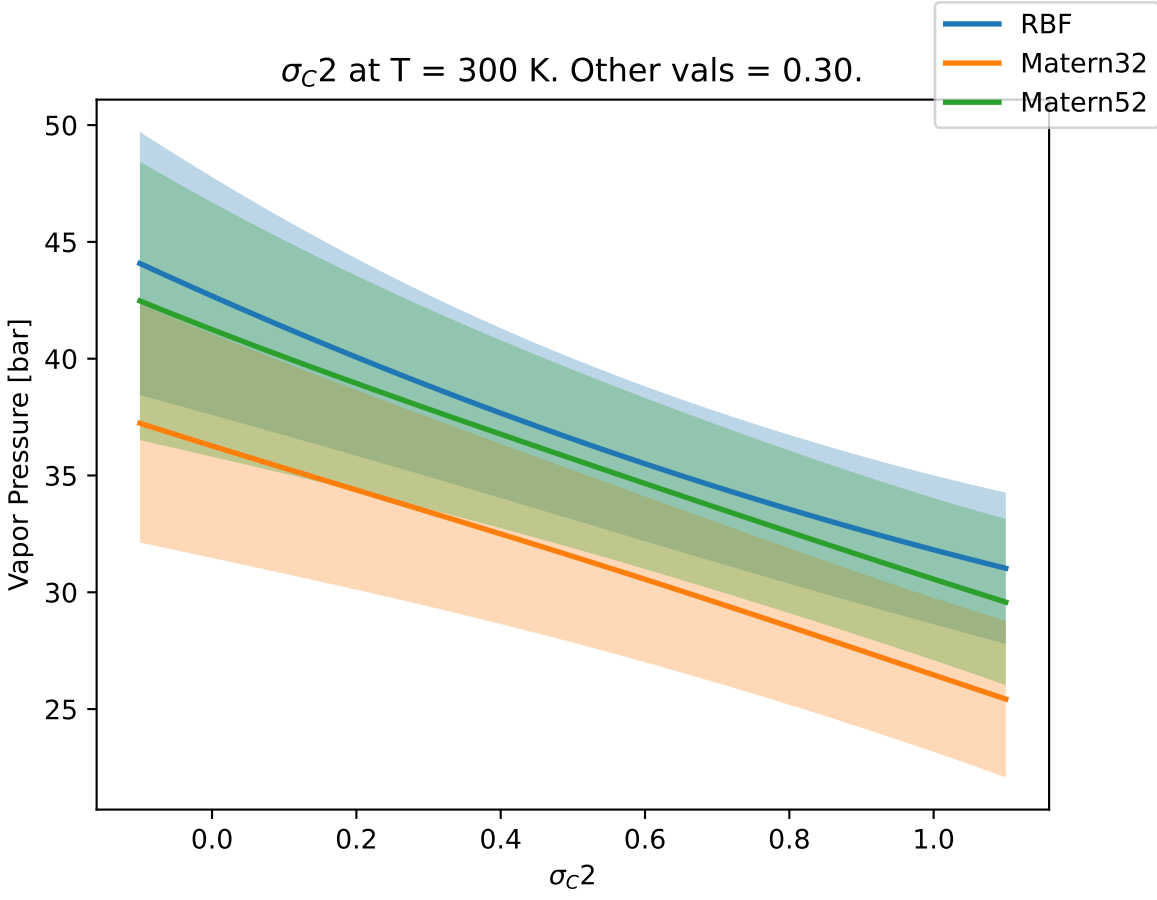

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

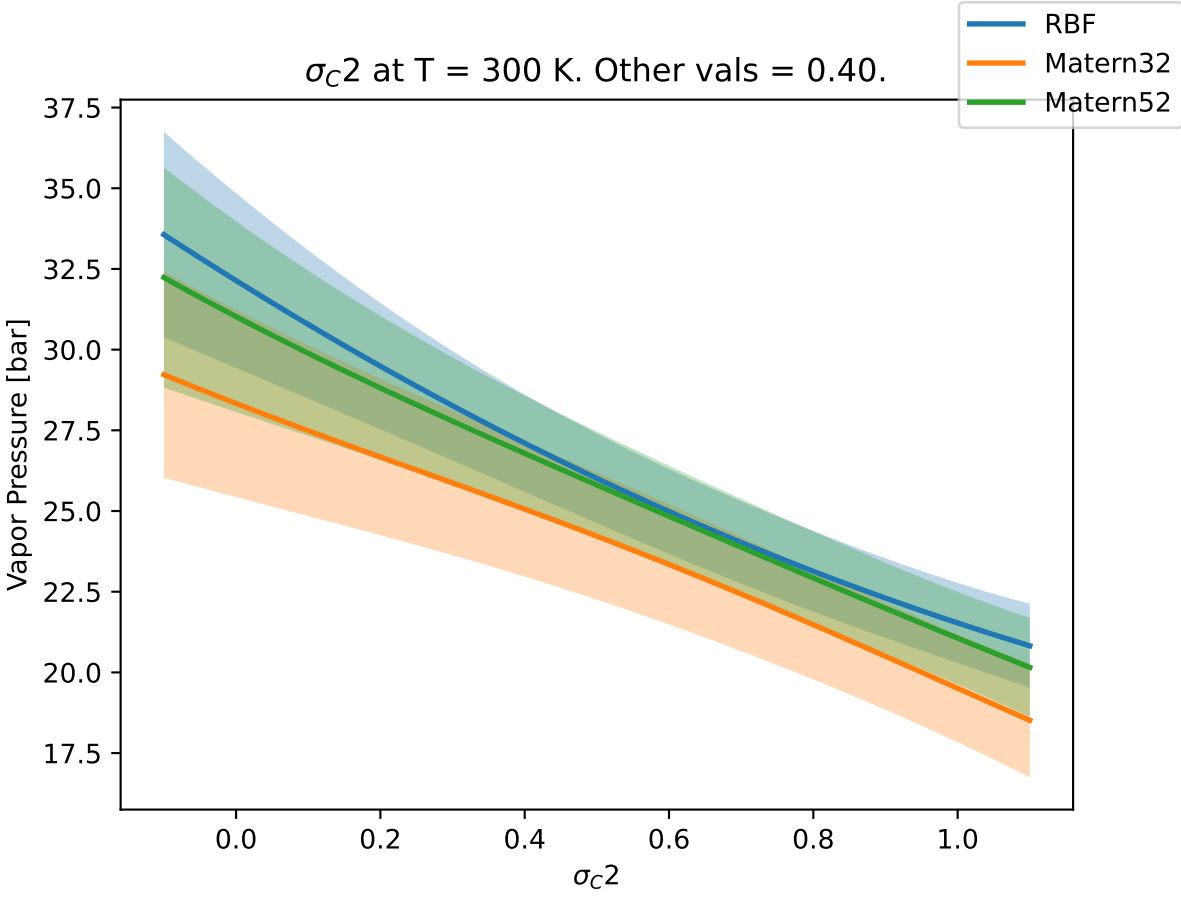

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

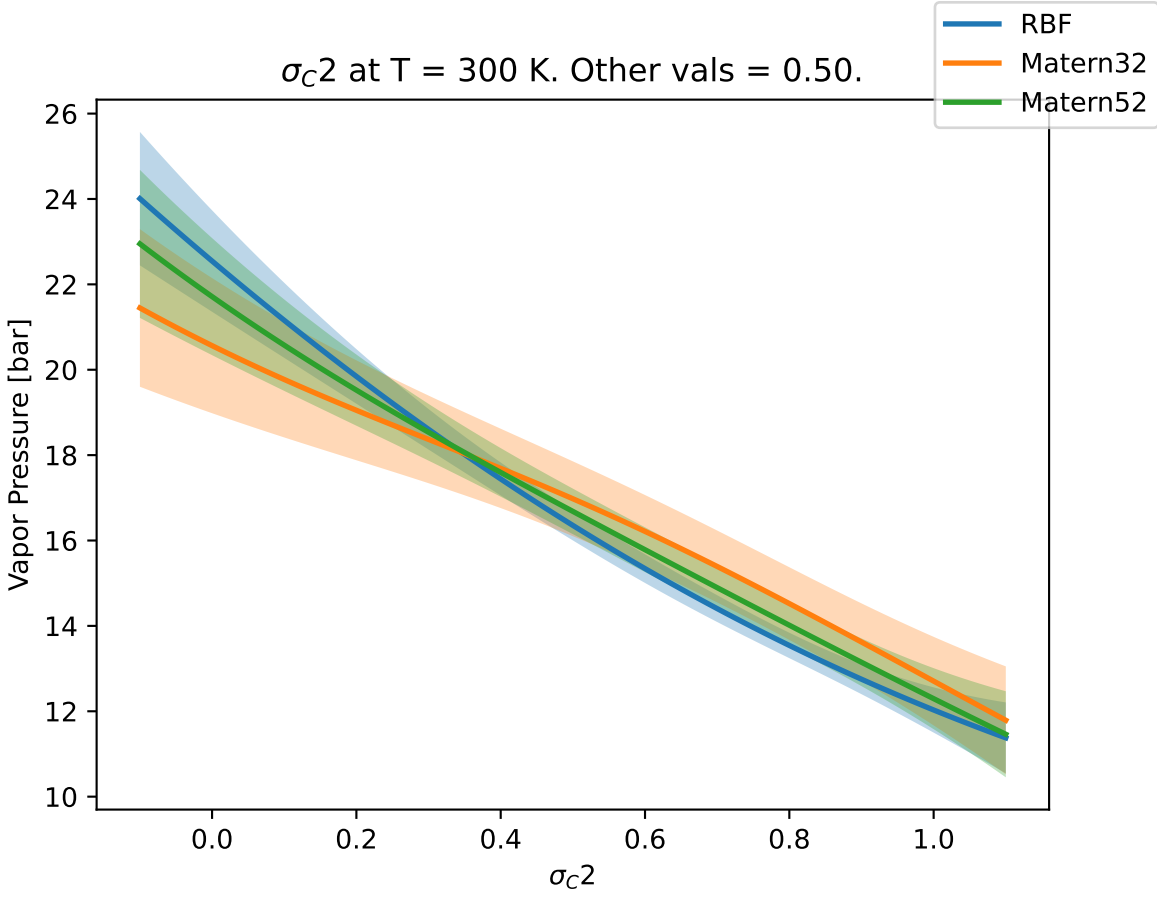

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

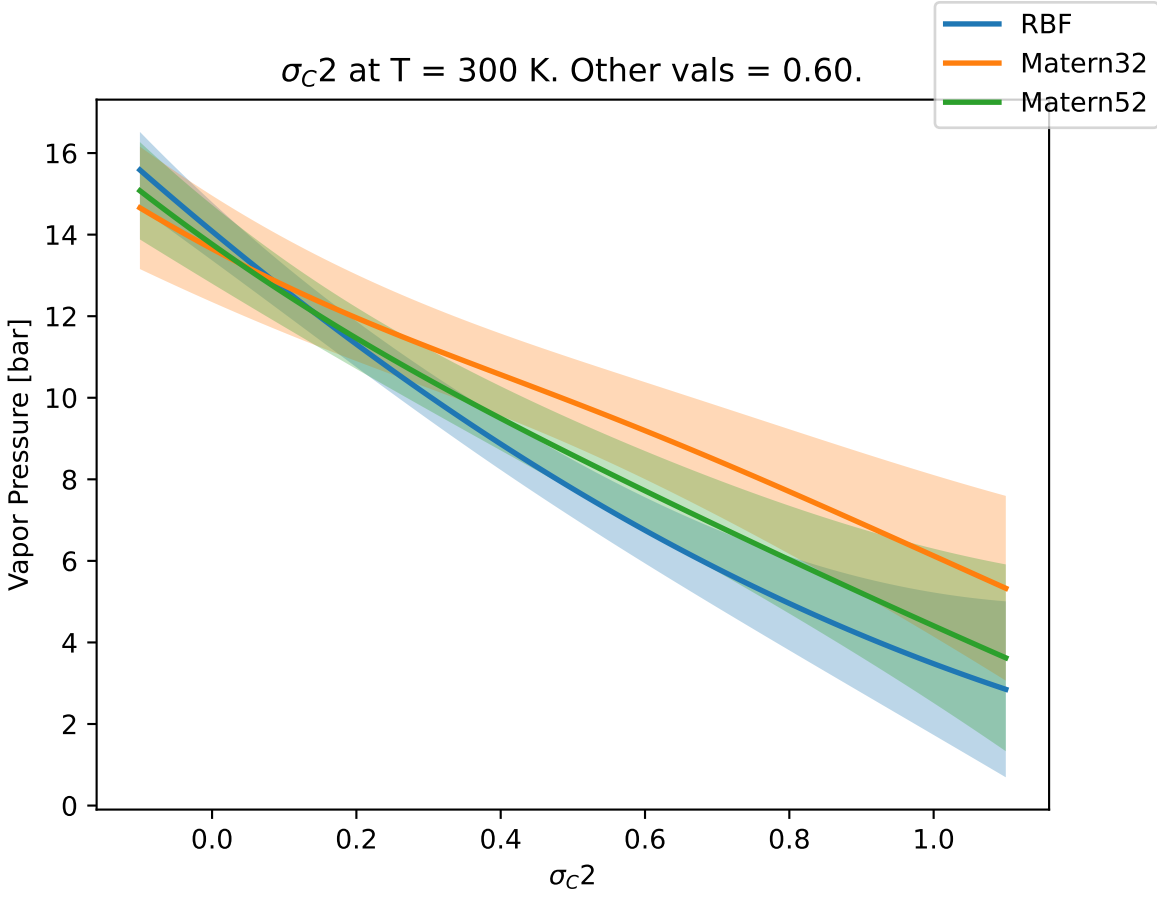

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

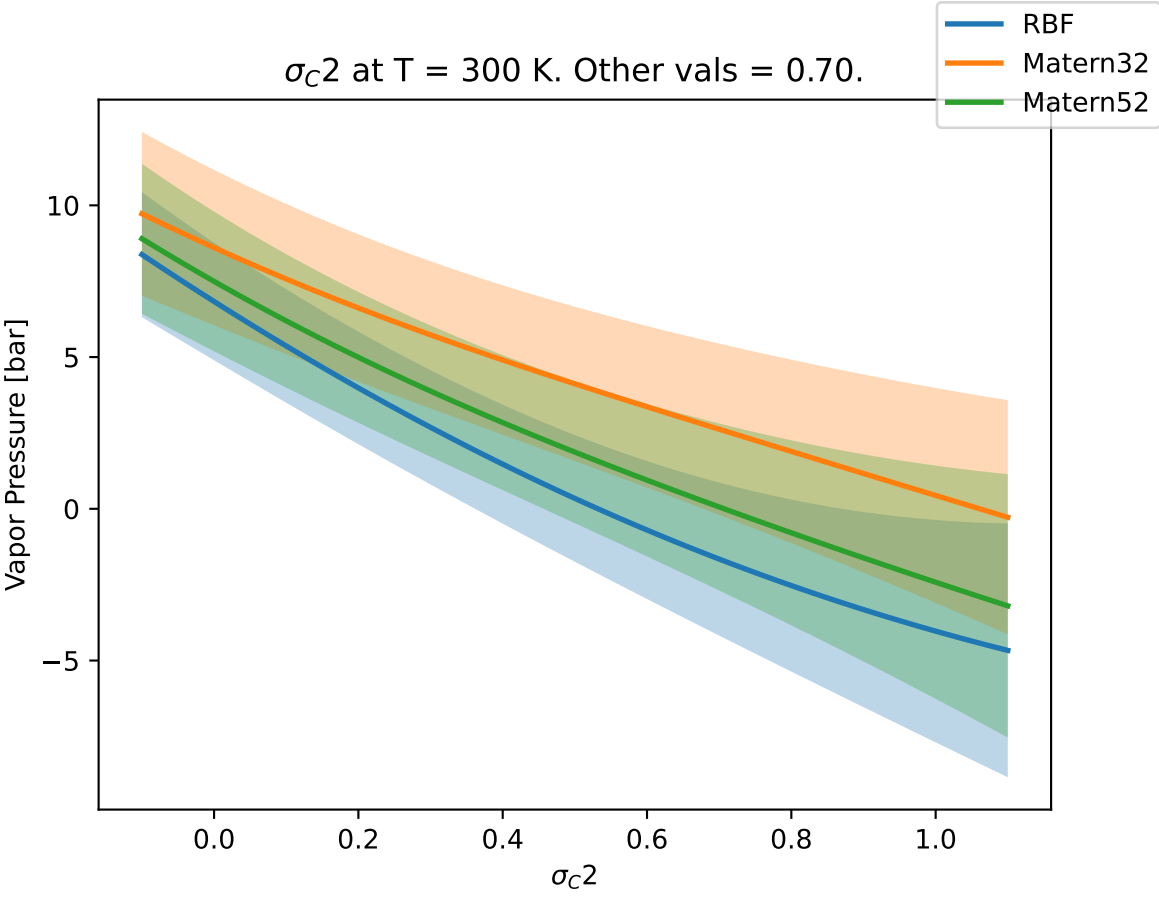

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
65
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

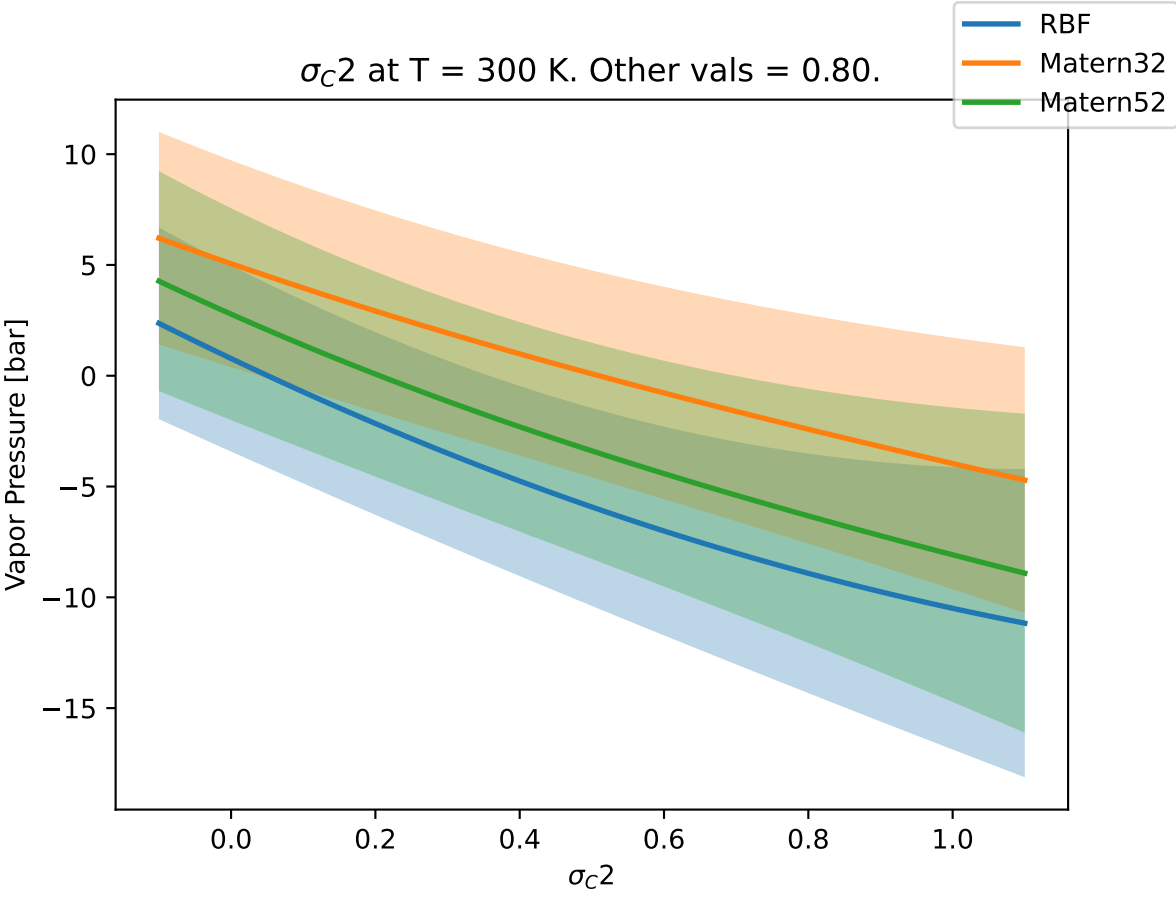

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

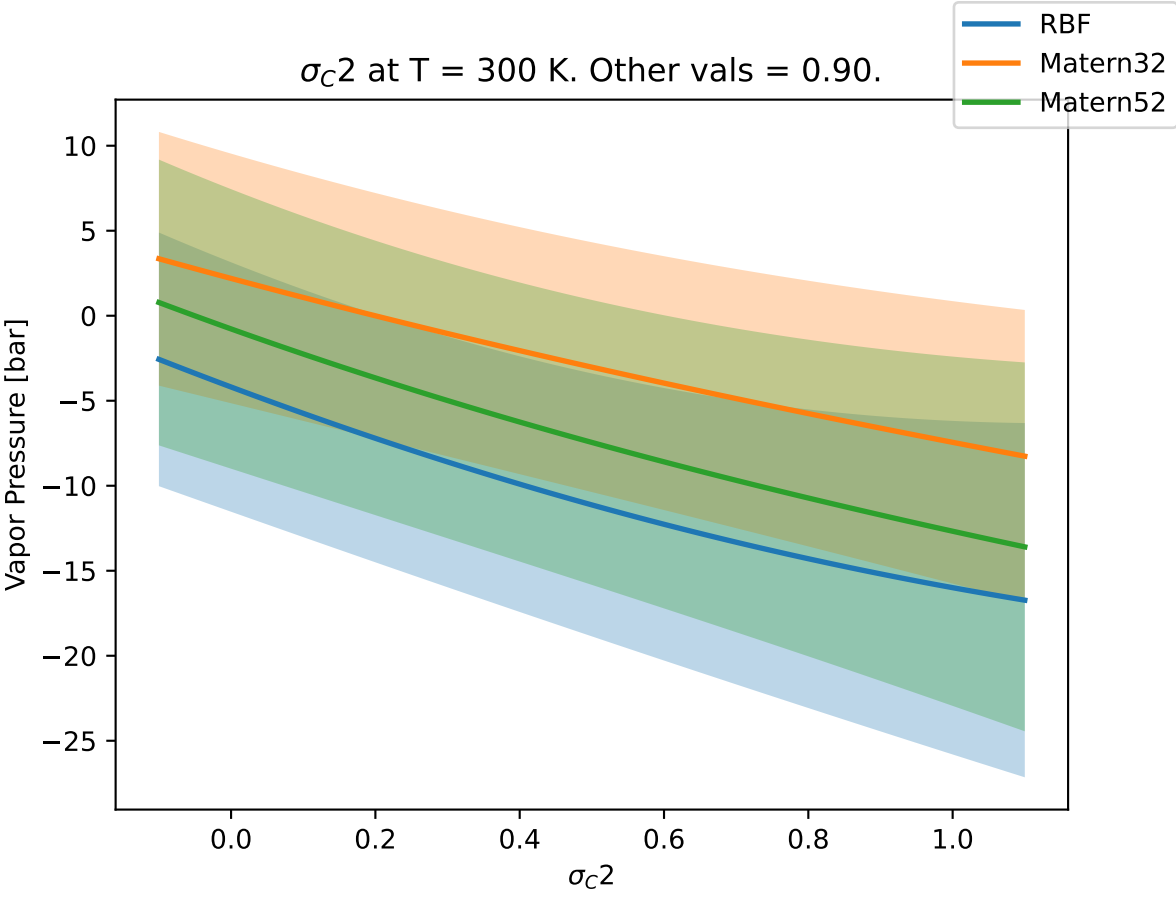

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
37.5
35.0
32.5
30.0
27.5
25.0
22.5
20.0
17.5
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

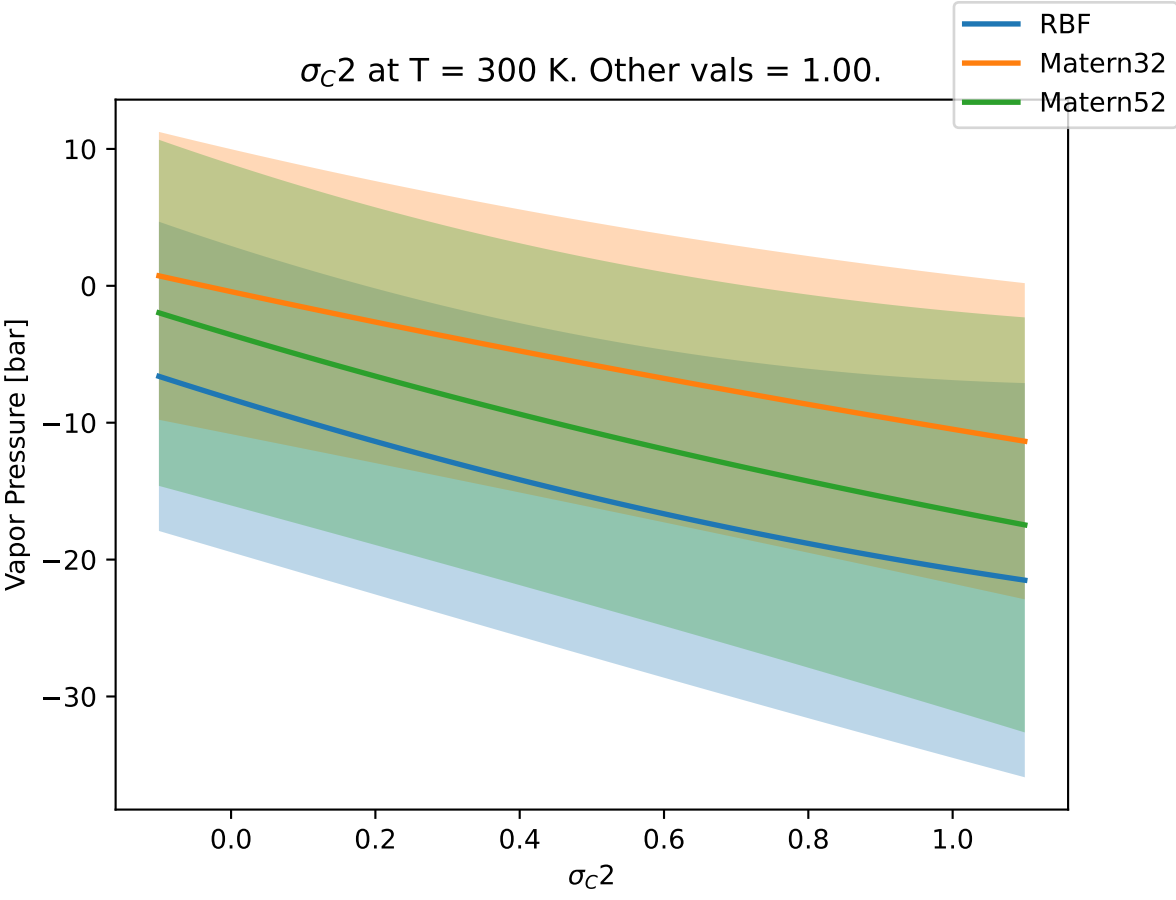

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
26
24
22
20
18
16
14
12
10
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

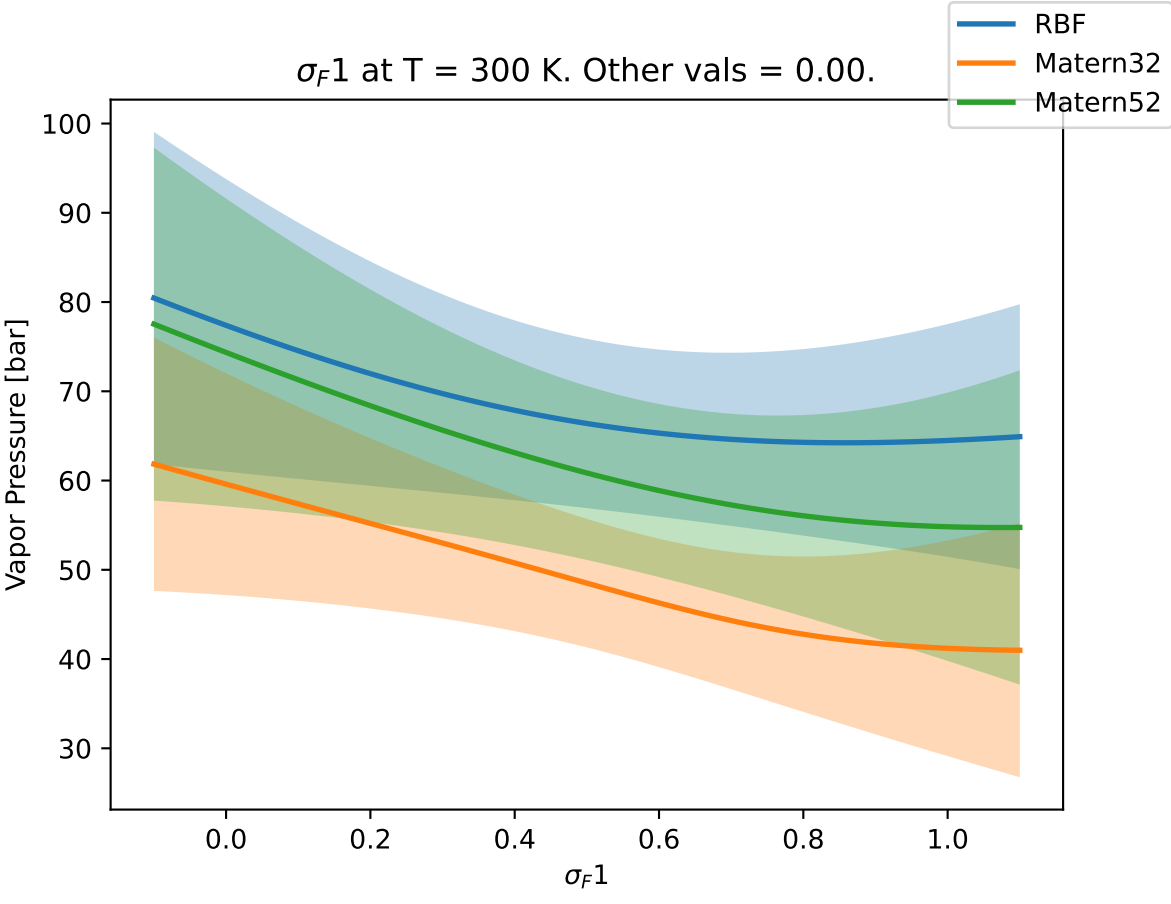

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
0
2
4
6
8
10
12
14
16
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

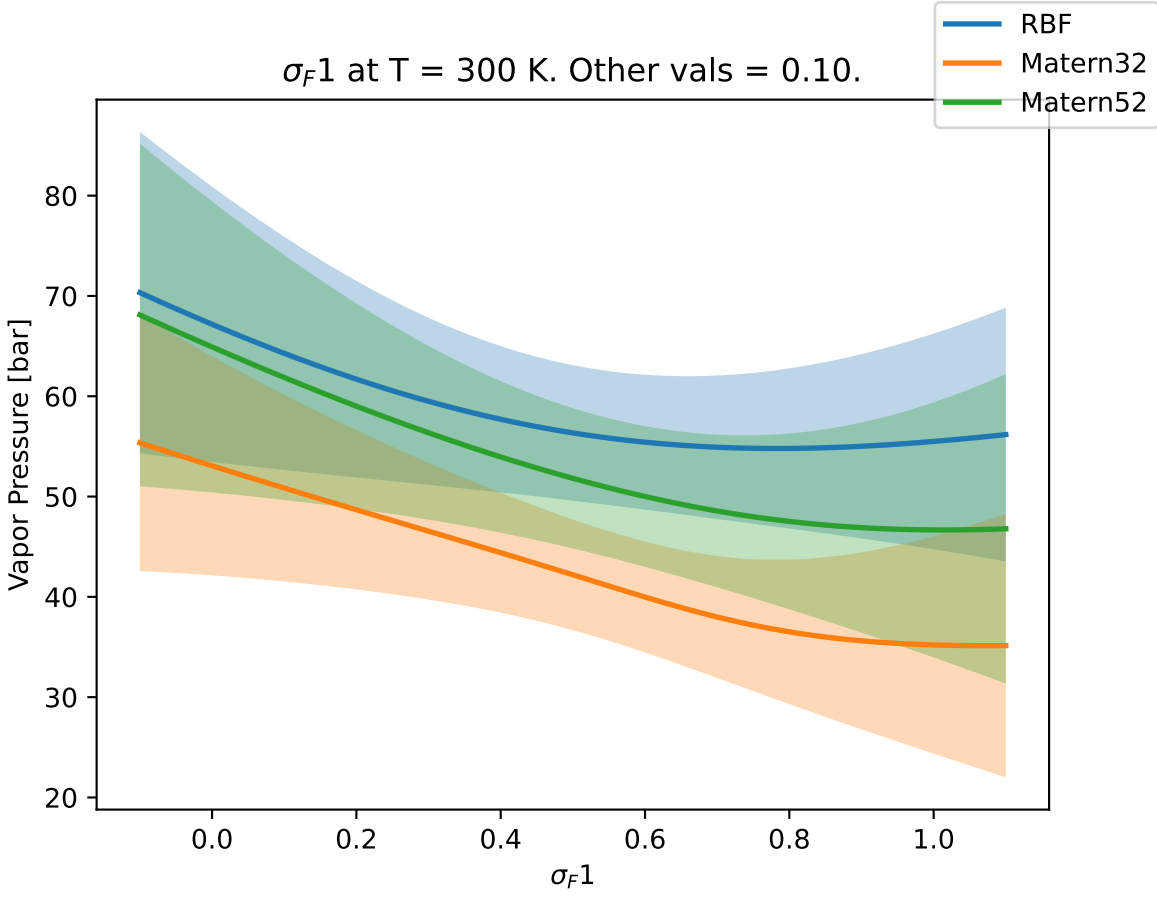

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
10
5
0
−5
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

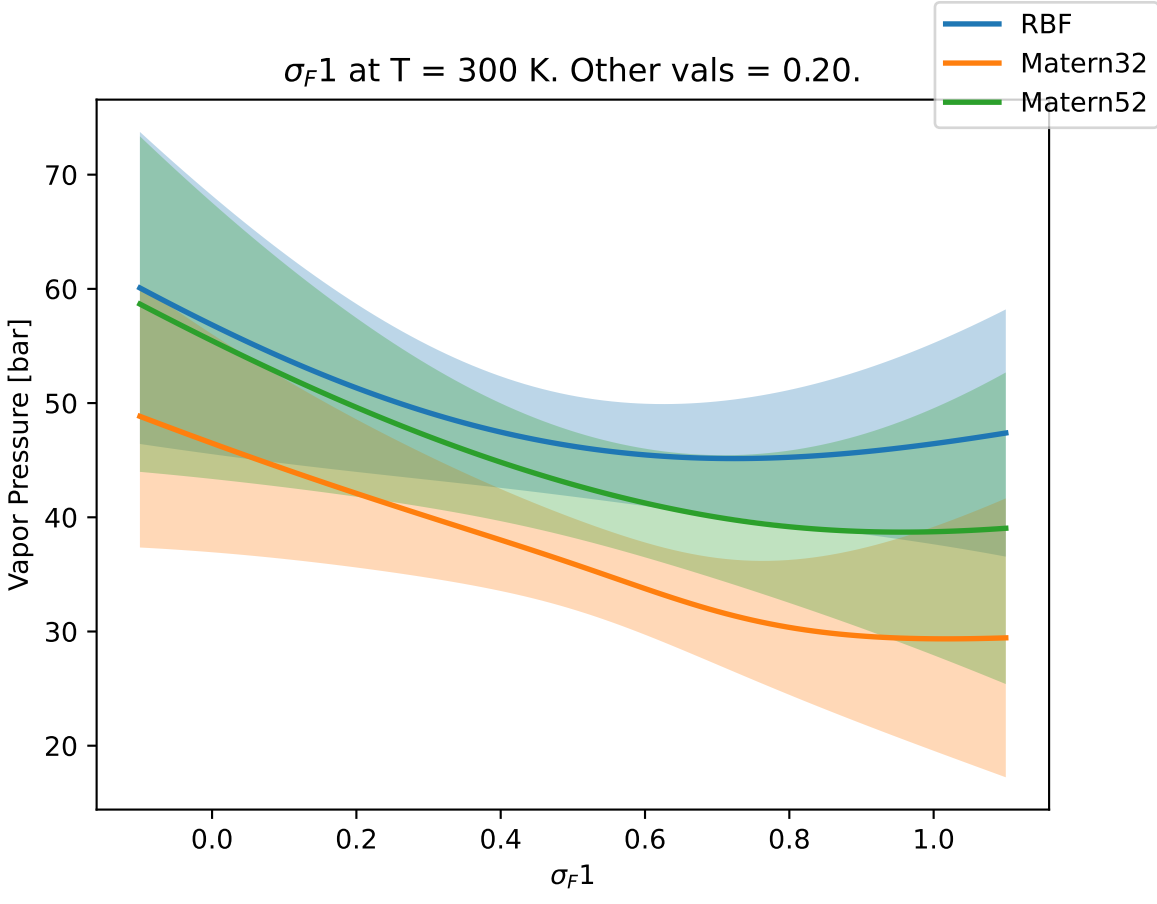

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

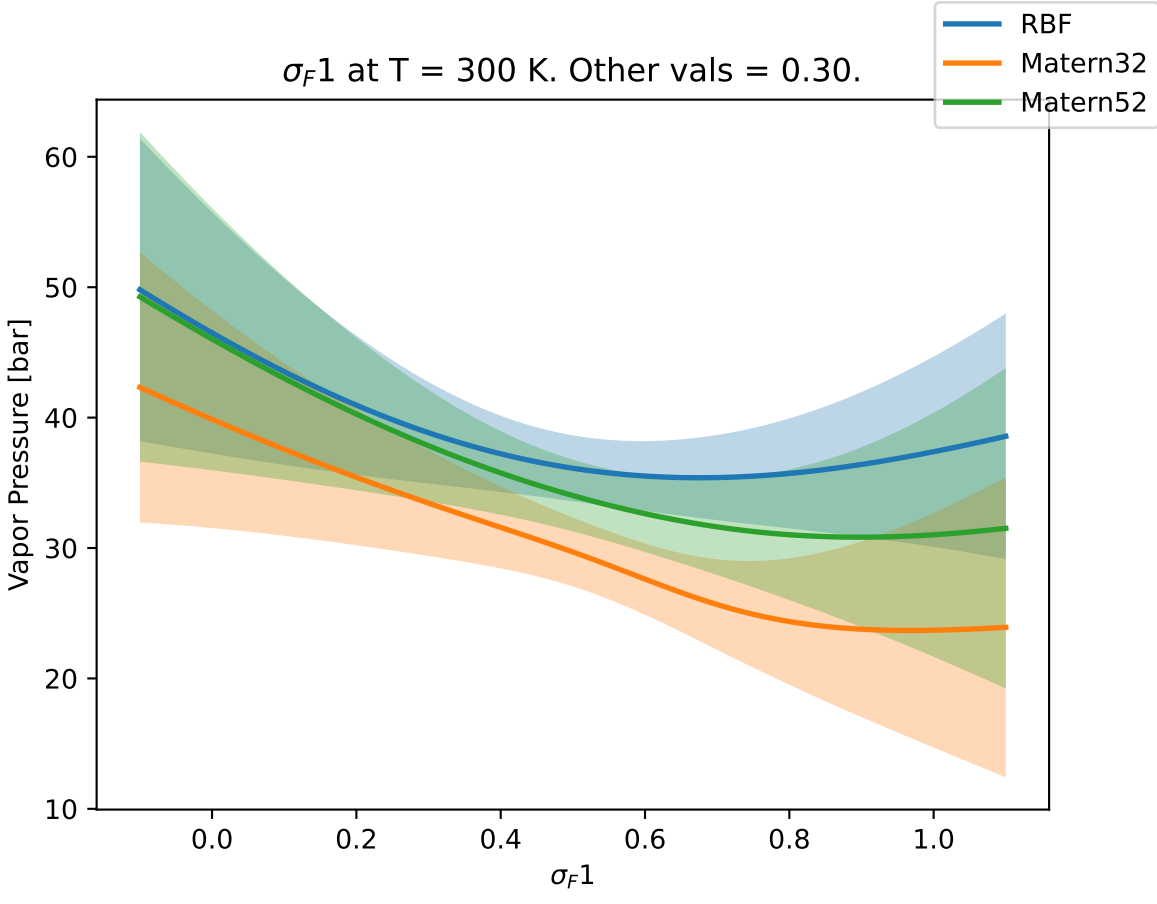

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
10
5
0
−5
−10
−15
−20
−25
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

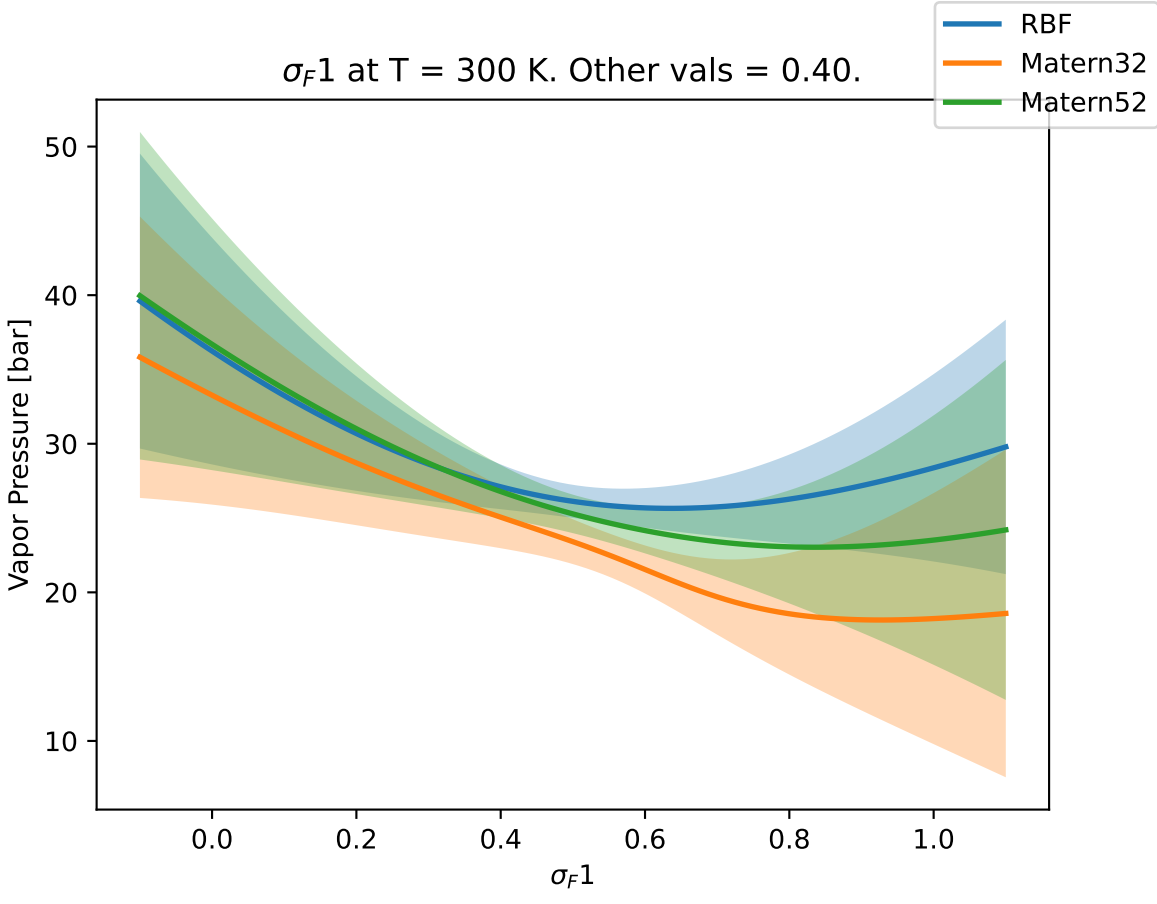

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

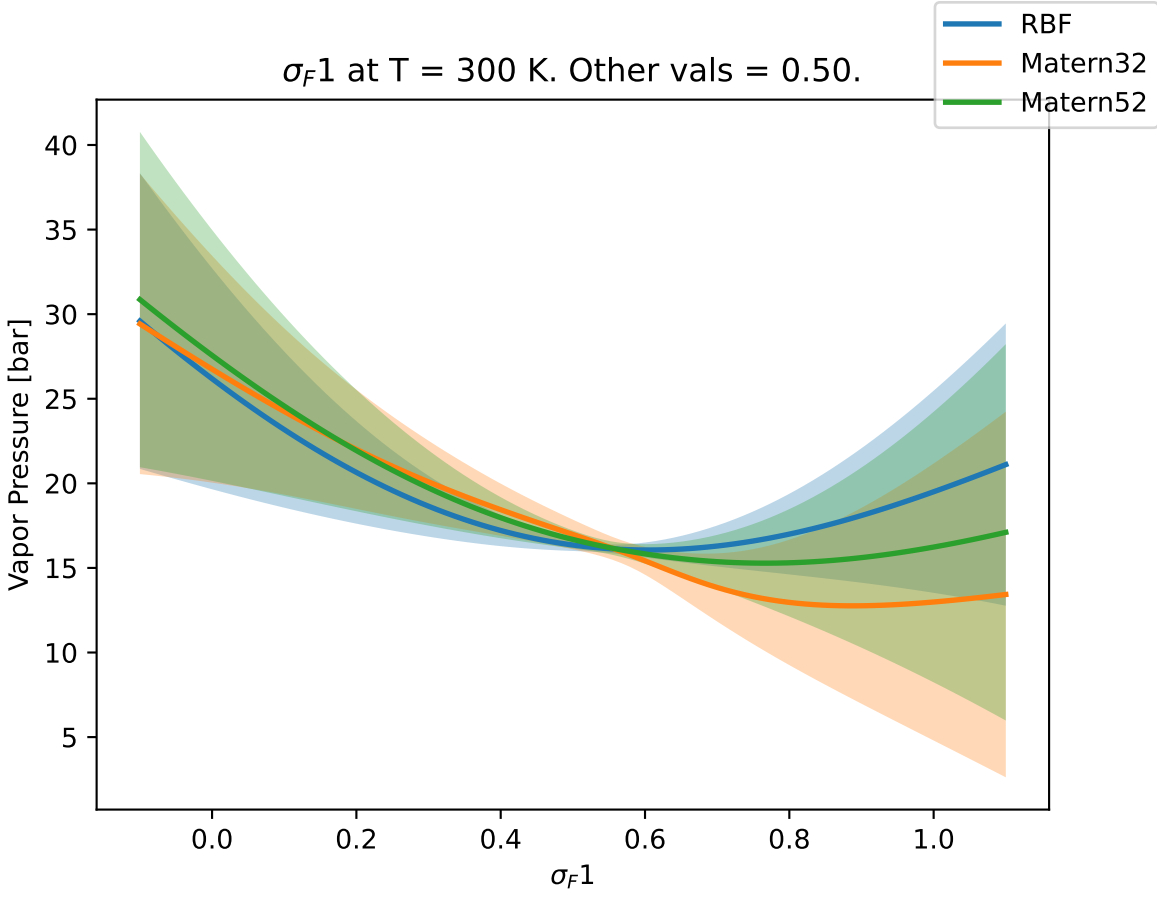

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
100
90
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

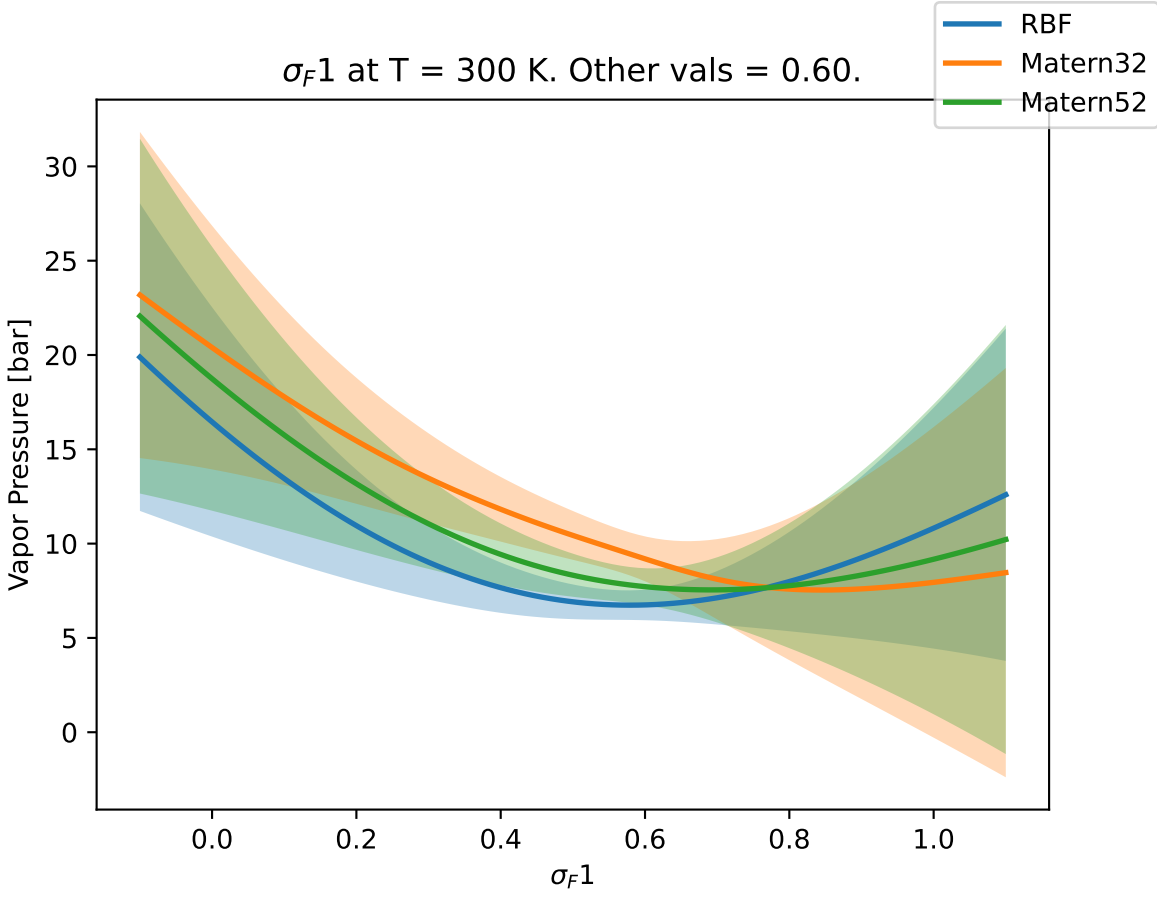

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
70
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

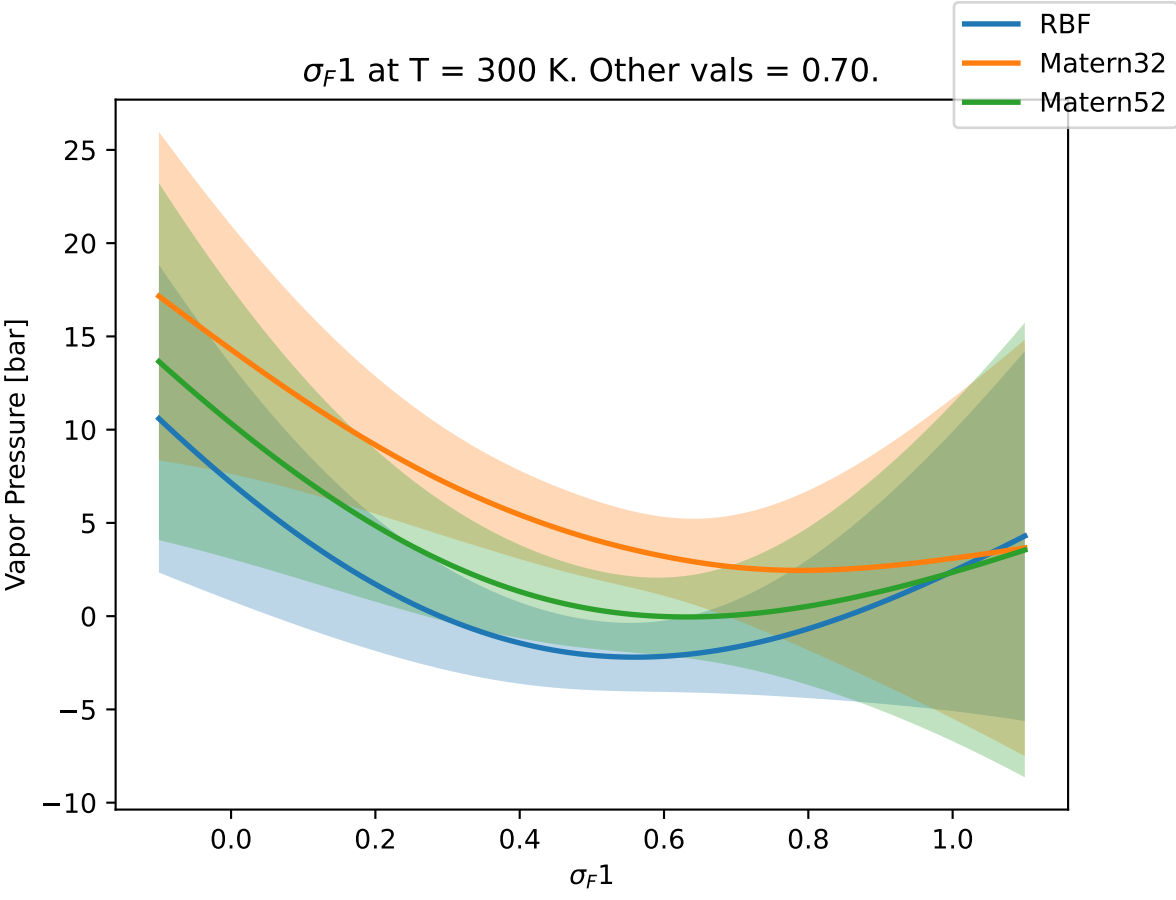

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
70
60
50
40
30
20
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

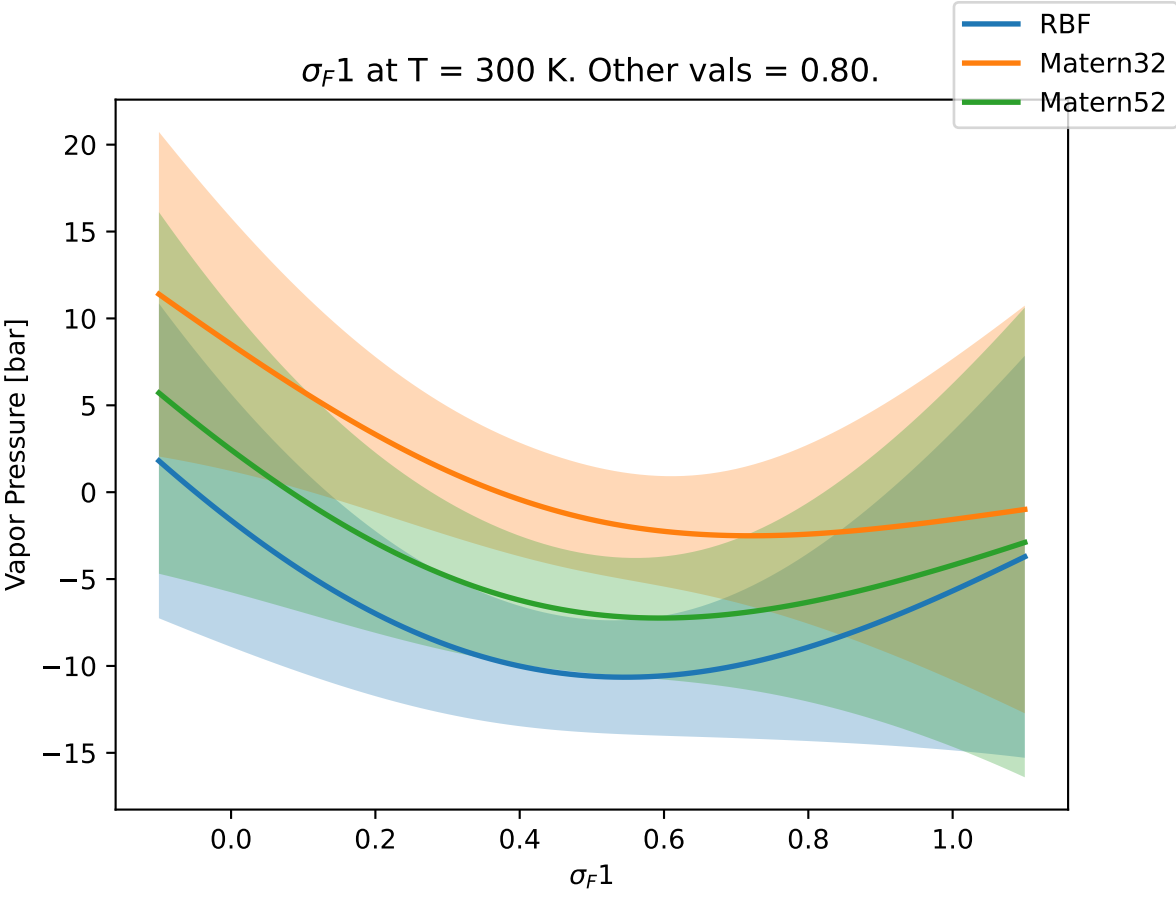

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
60
50
40
30
20
10
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

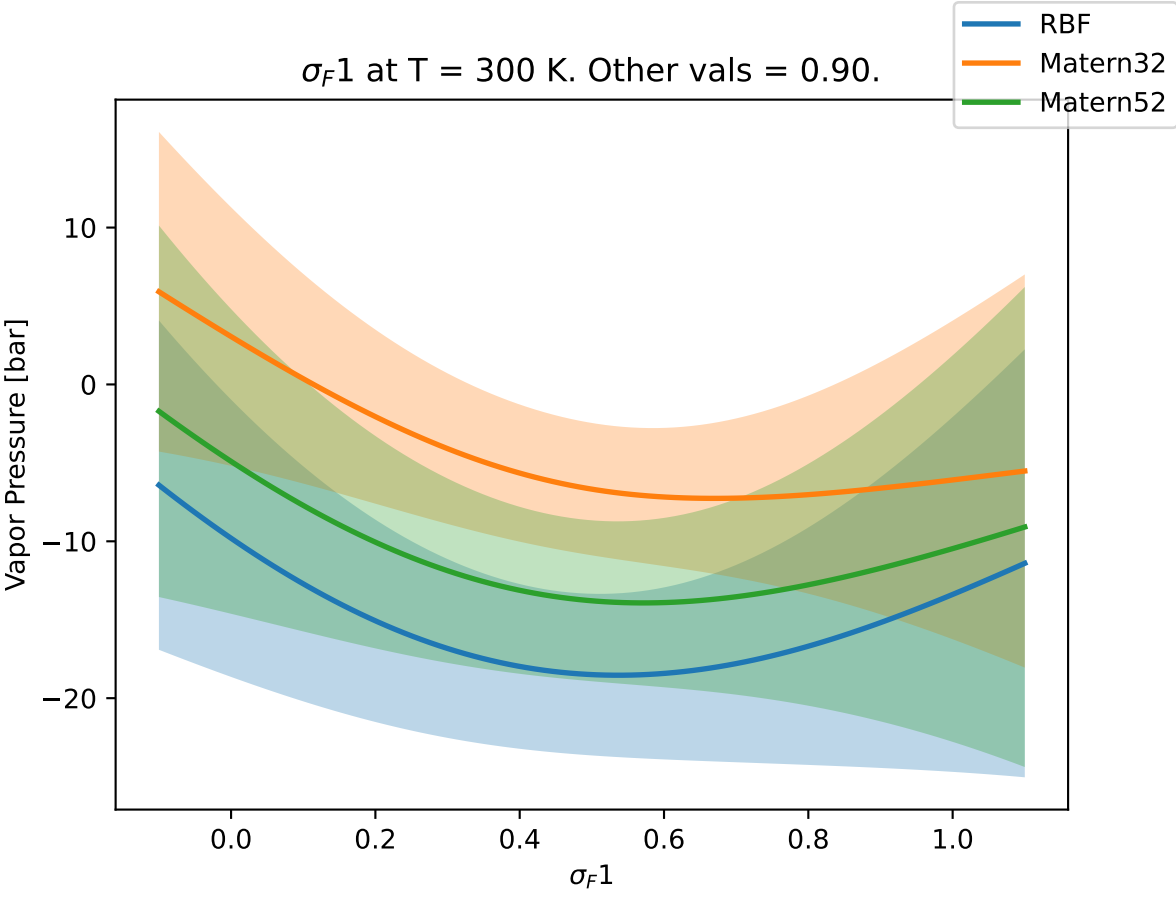

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
50
40
30
20
10
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

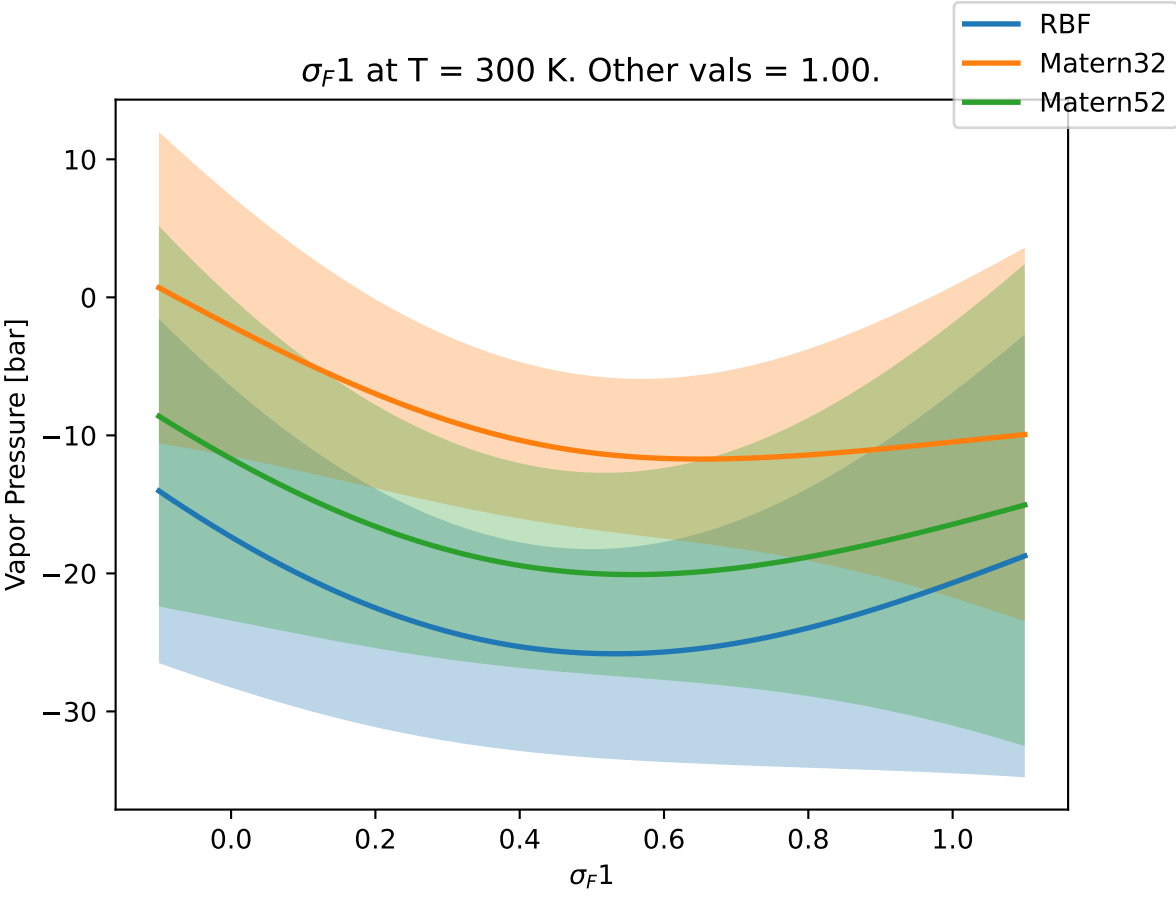

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
40
35
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

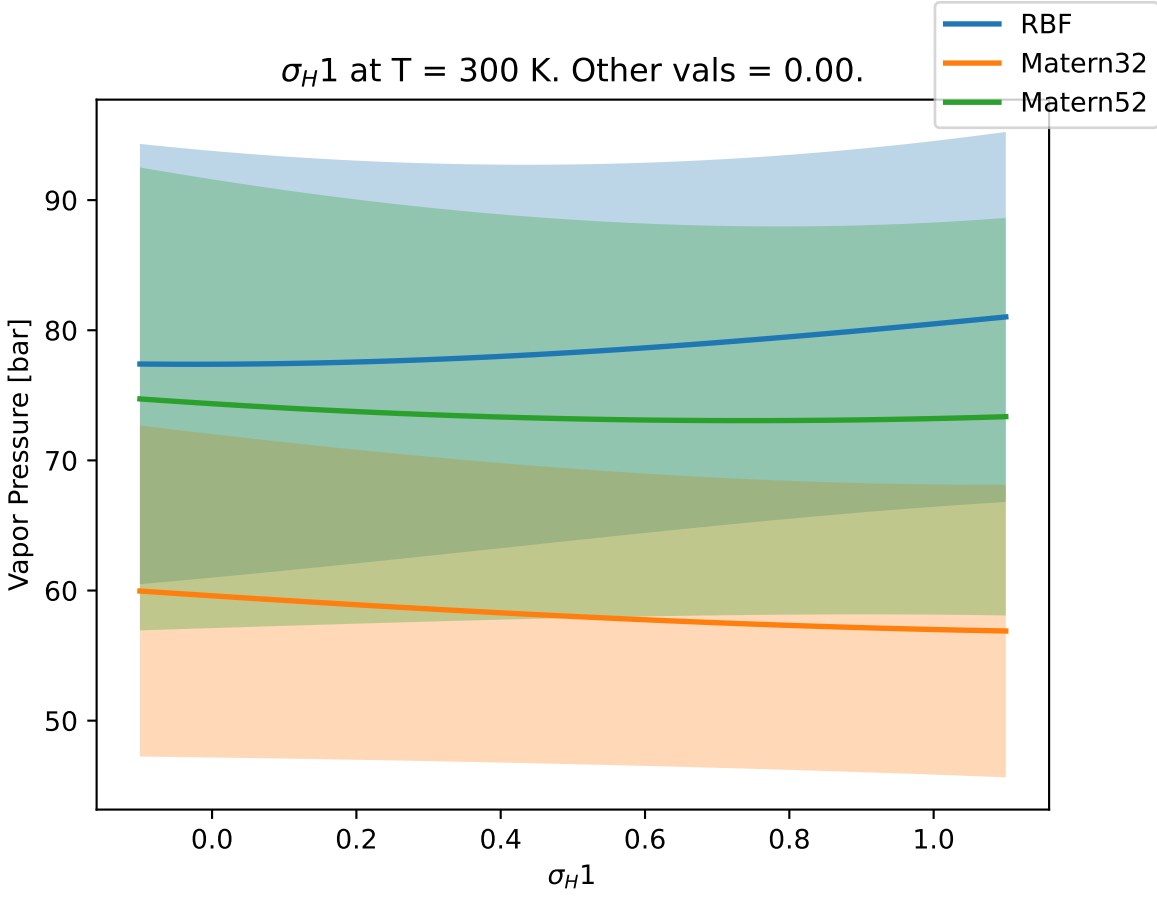

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
30
25
20
15
10
5
0
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

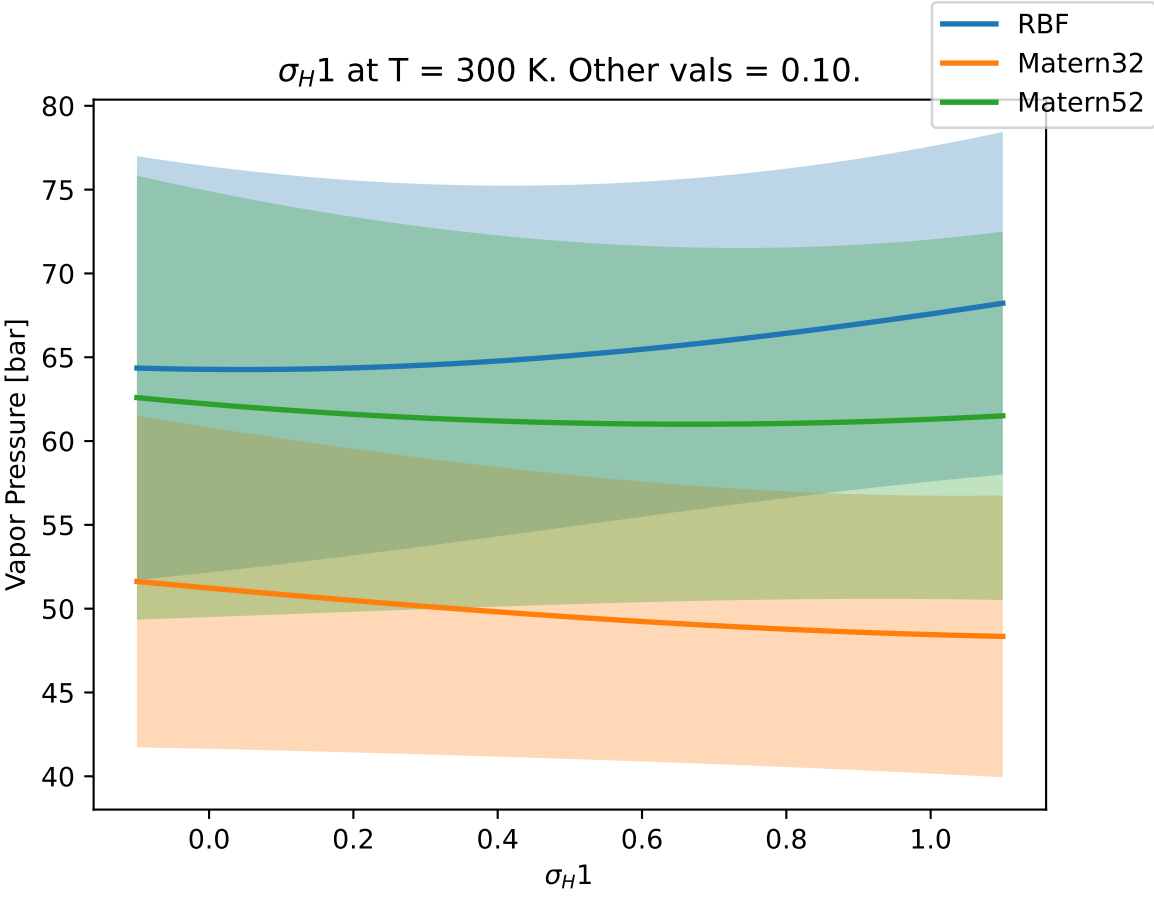

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
25
20
15
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

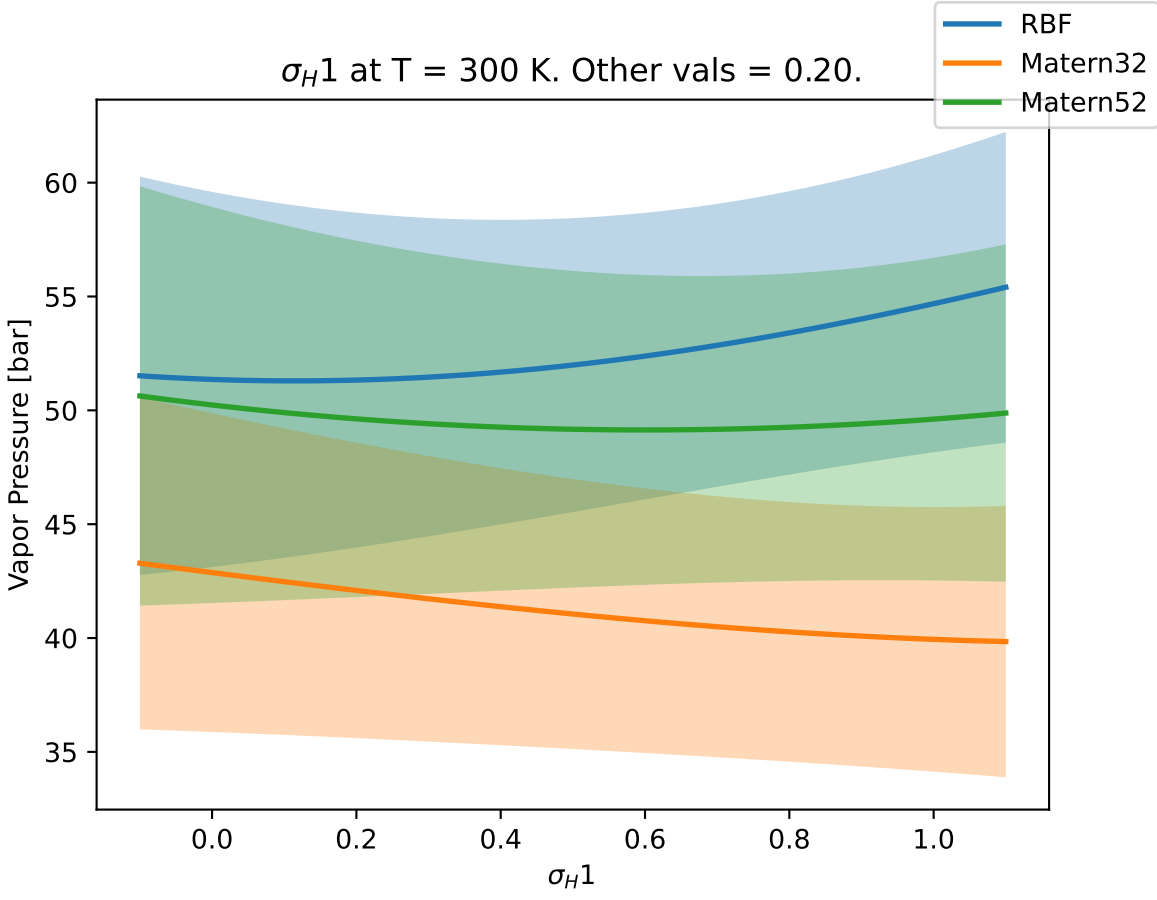

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
20
15
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

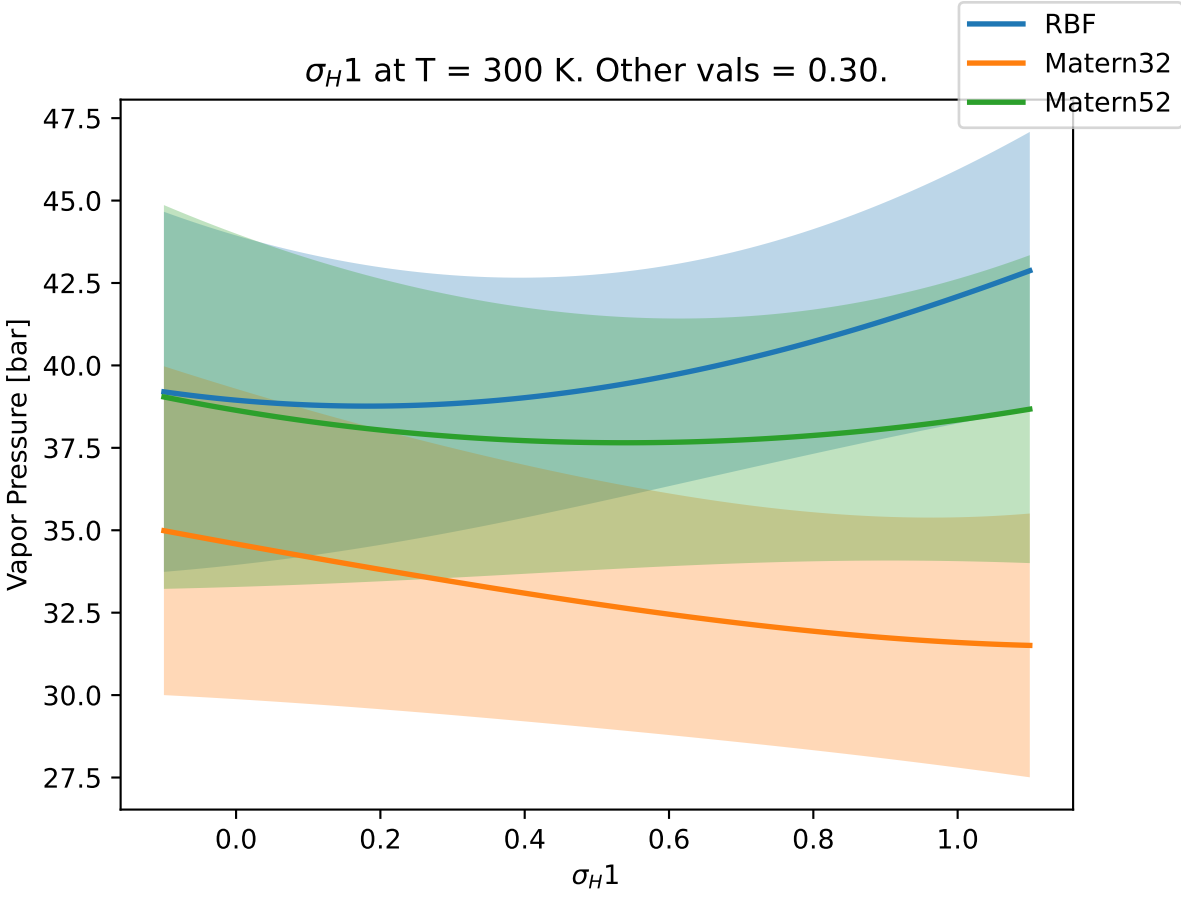

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
10
0
−10
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

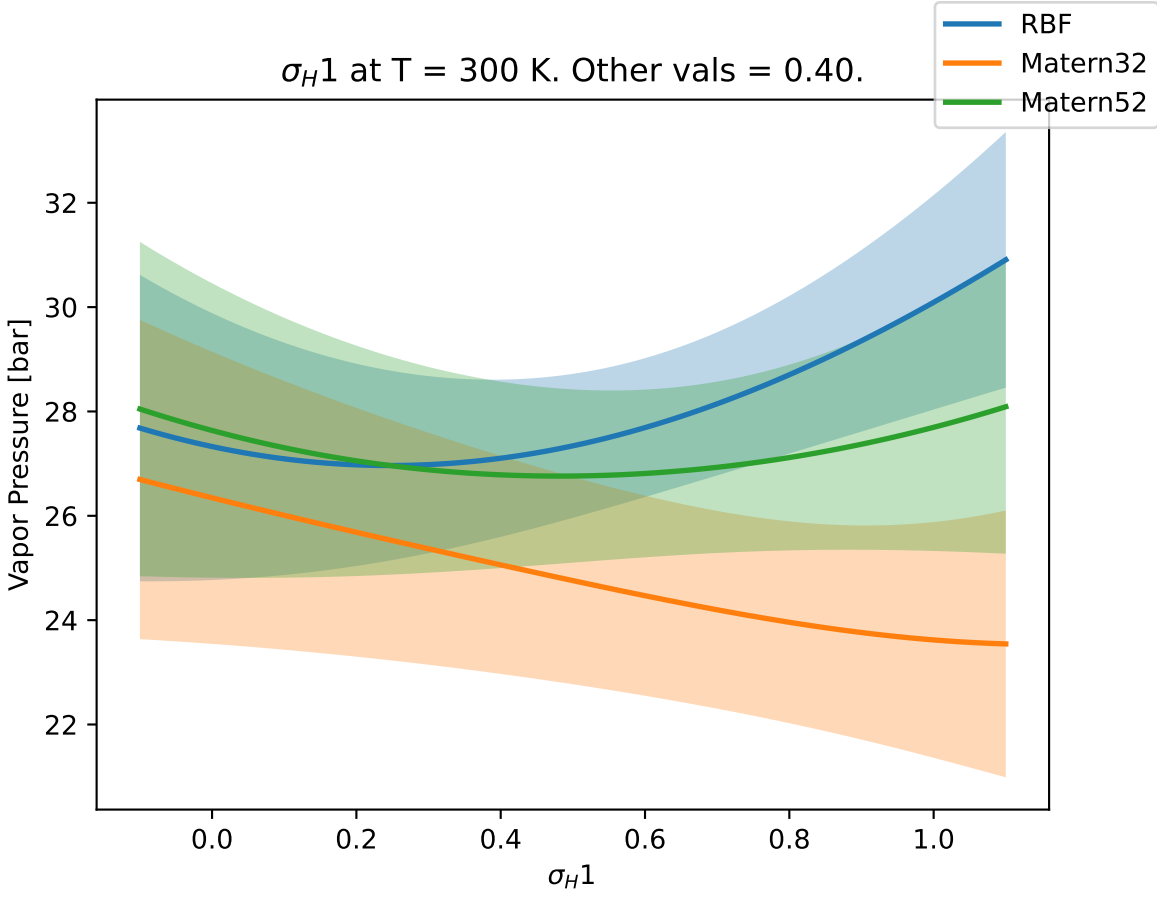

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

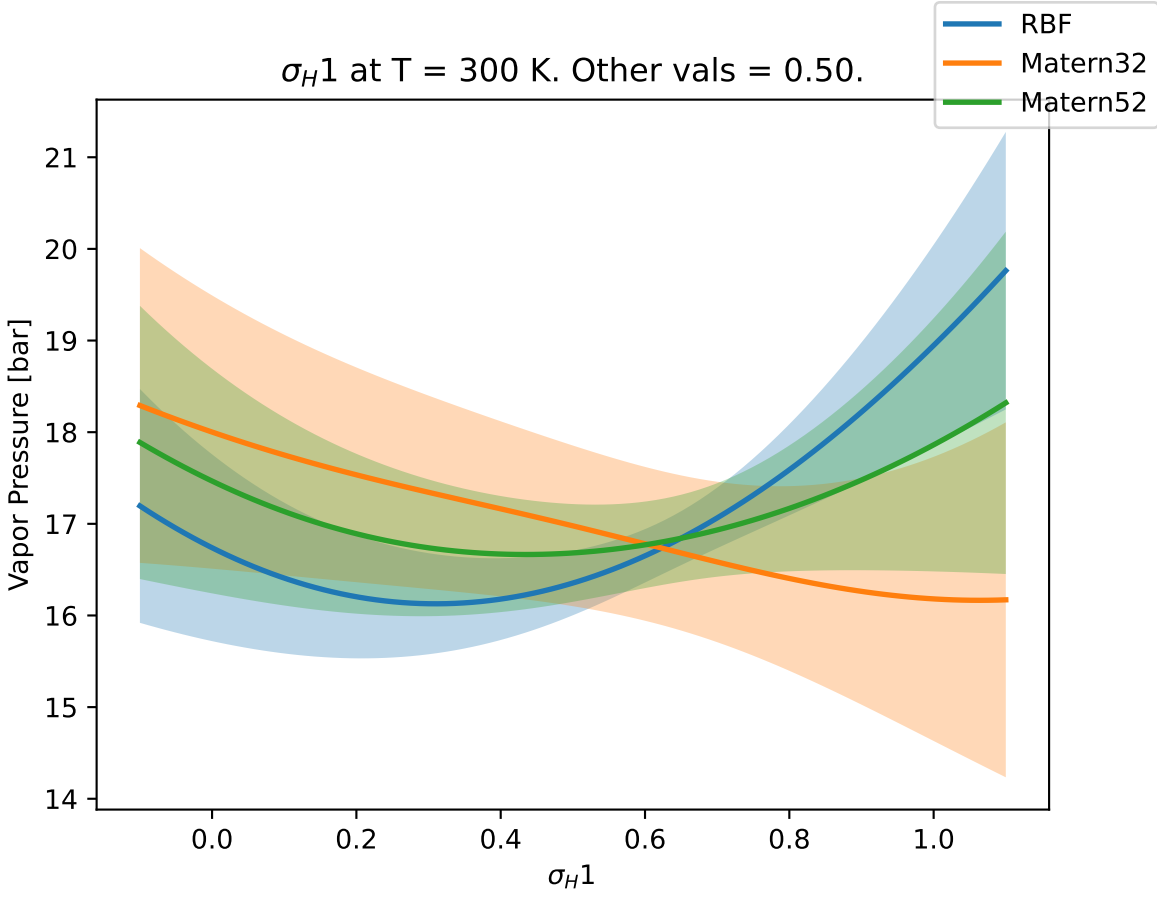

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

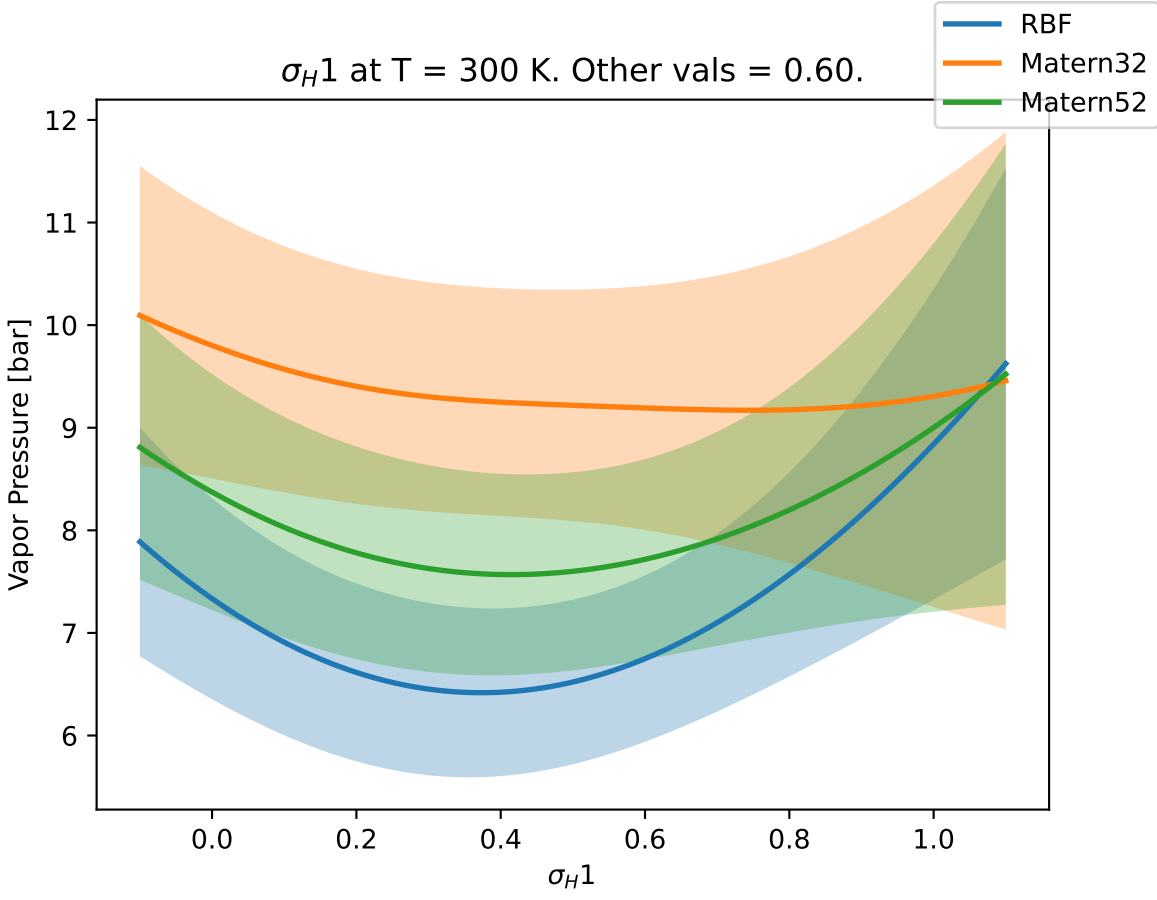

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
75
70
65
60
55
50
45
40
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

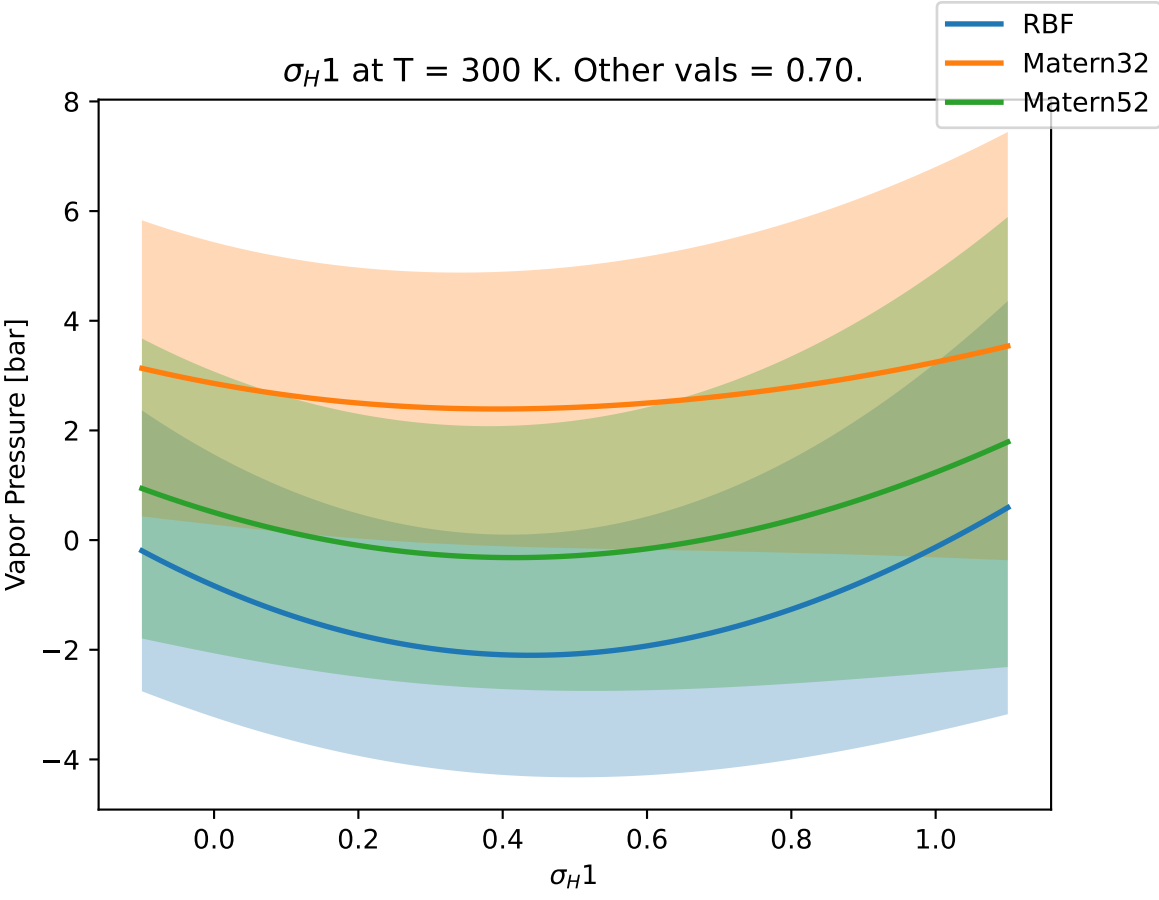

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
60
55
50
45
40
35
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

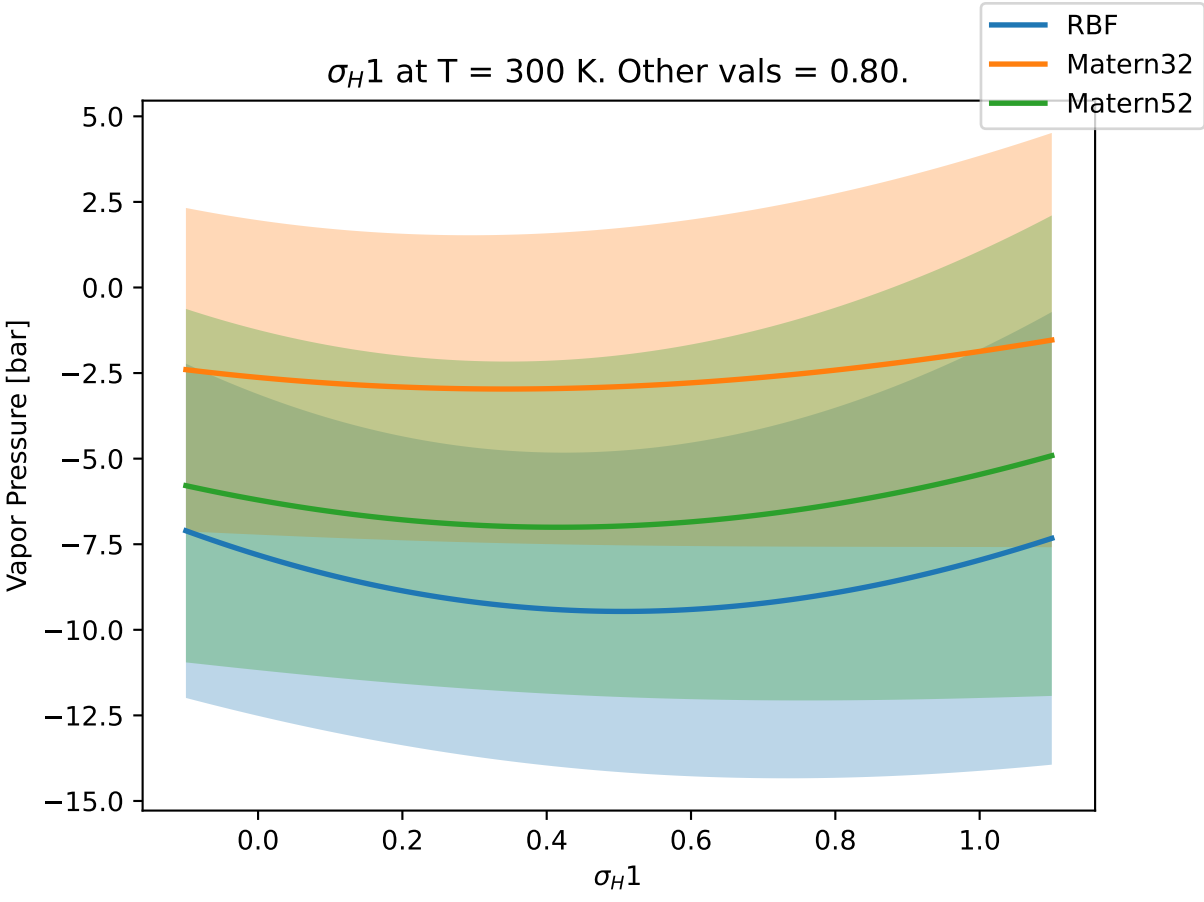

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
47.5
45.0
42.5
40.0
37.5
35.0
32.5
30.0
27.5
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

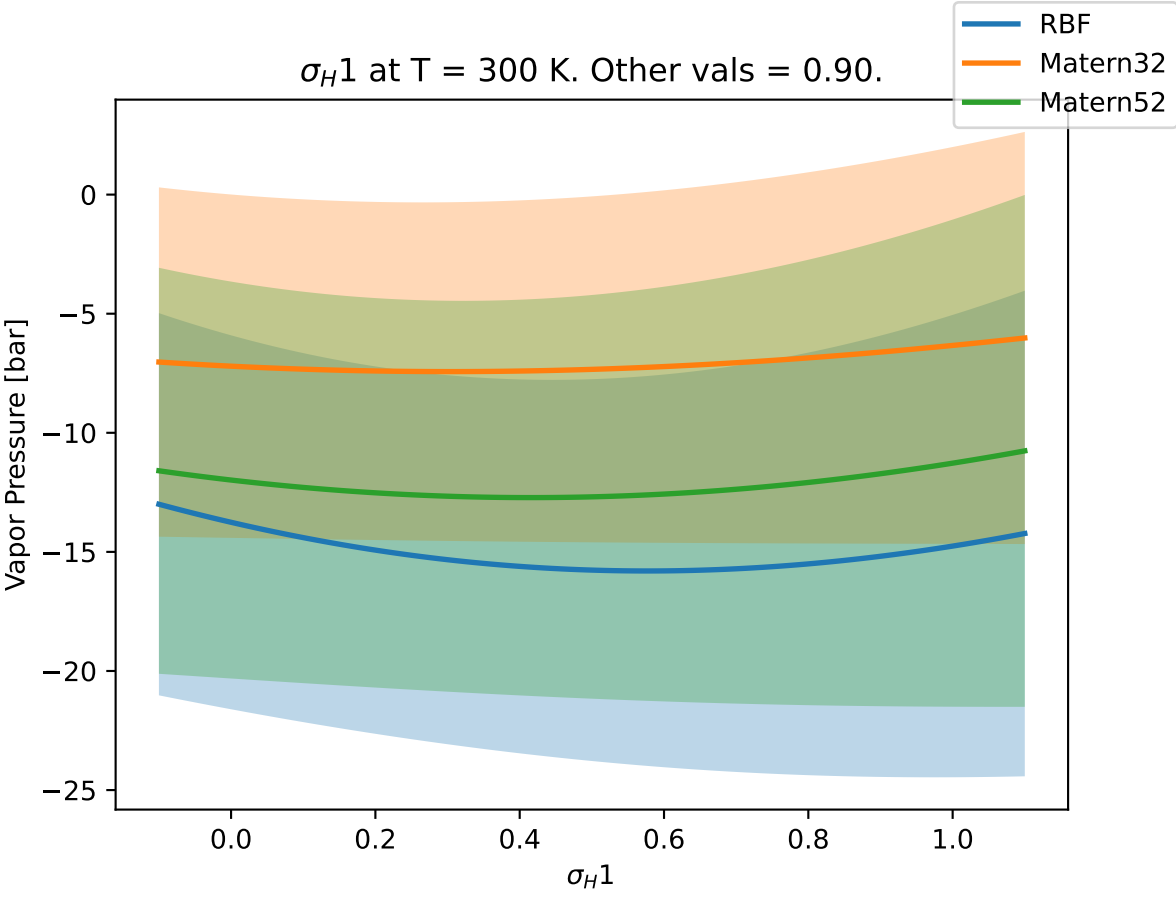

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
32
30
28
26
24
22
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

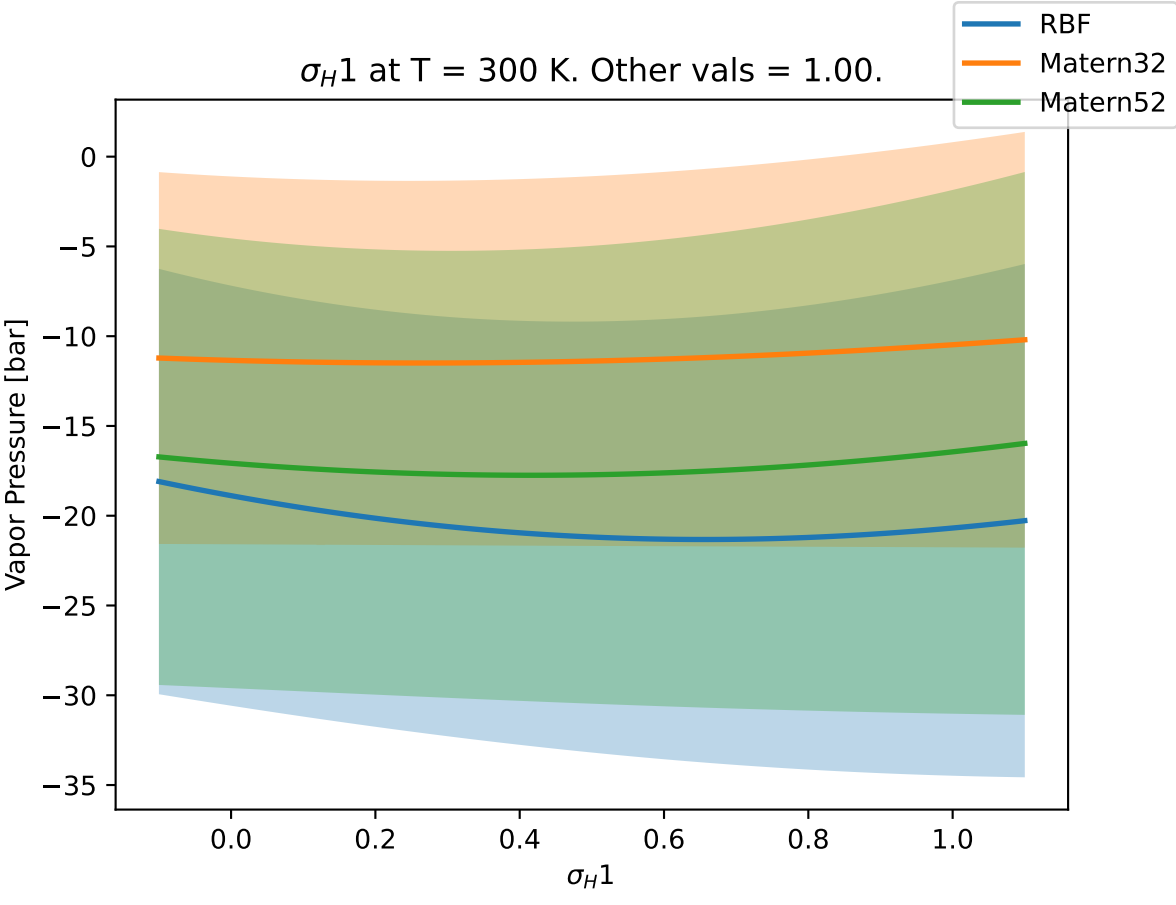

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
21
20
19
18
17
16
15
14
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

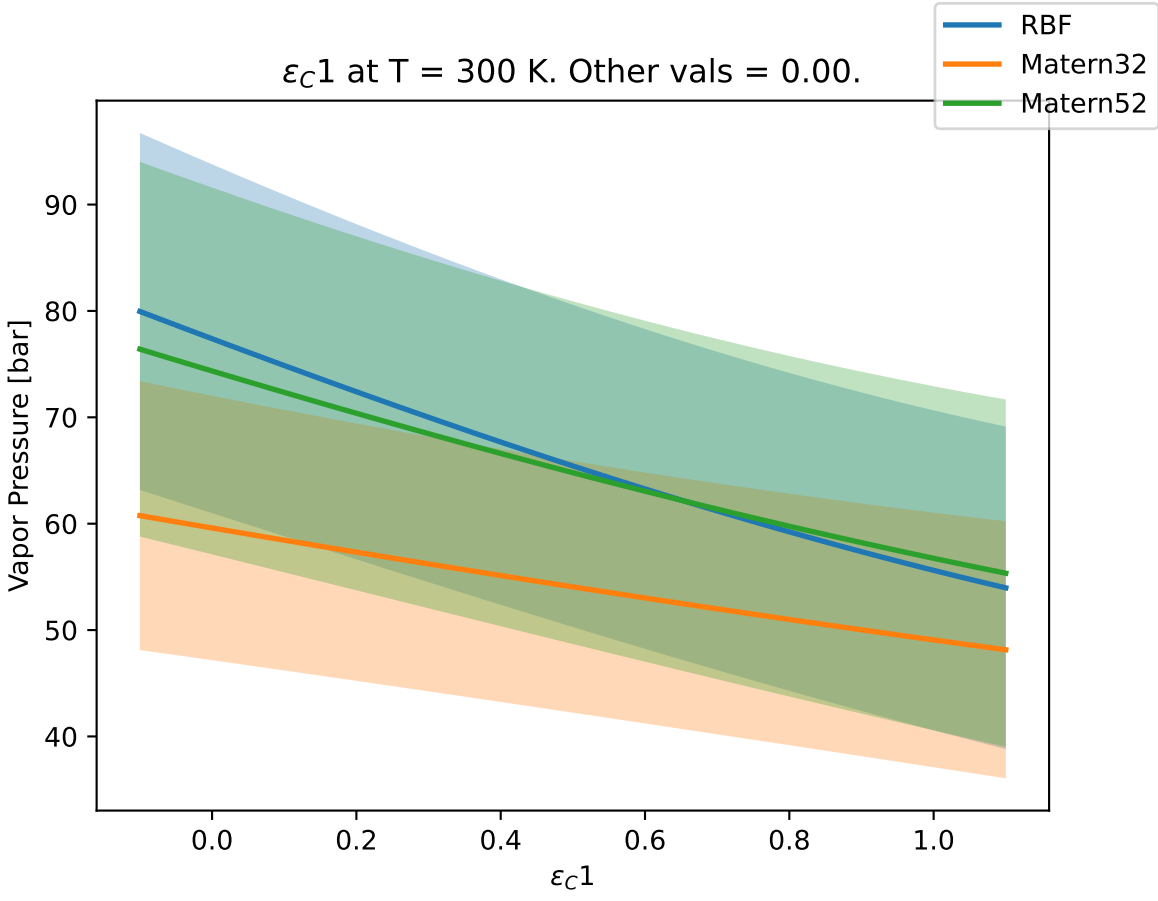

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
12
11
10
9
8
7
6
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

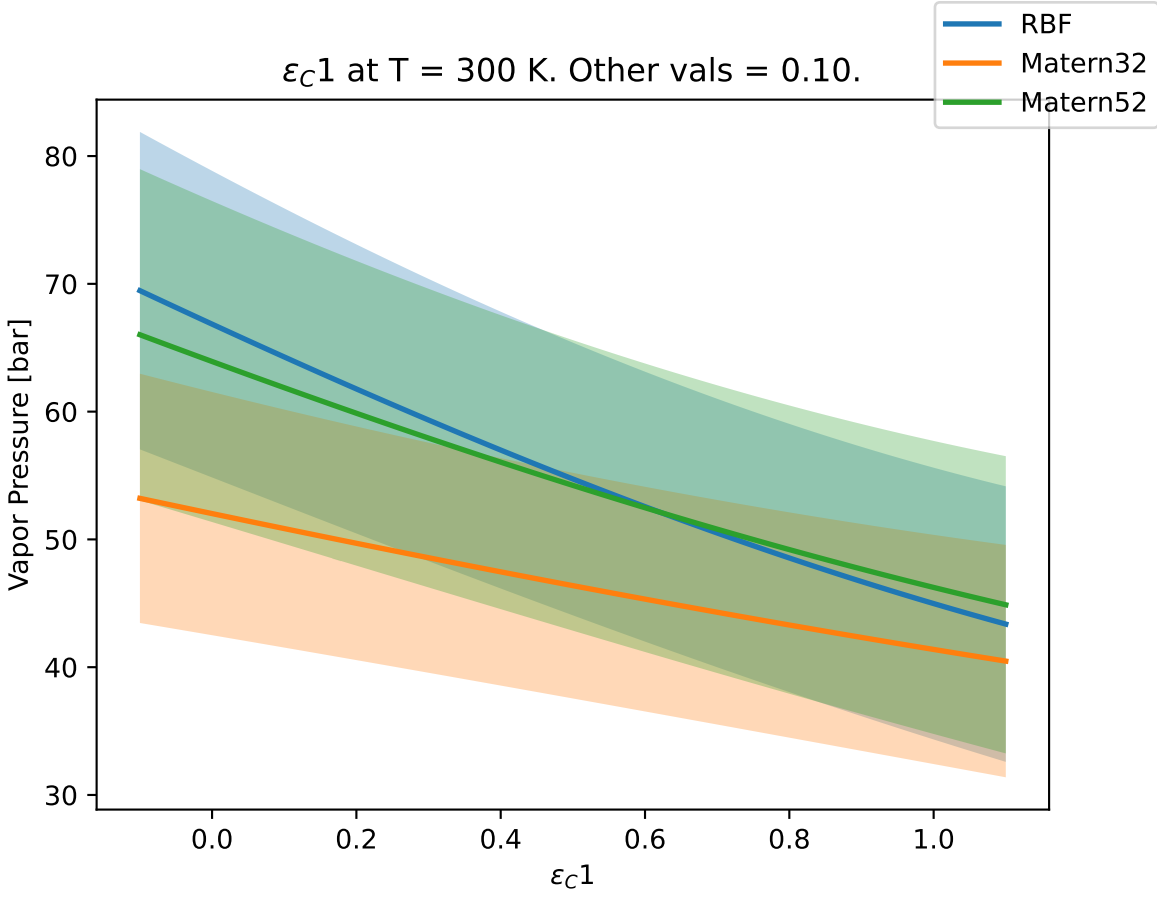

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
$\sigma_H 1$
8
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0

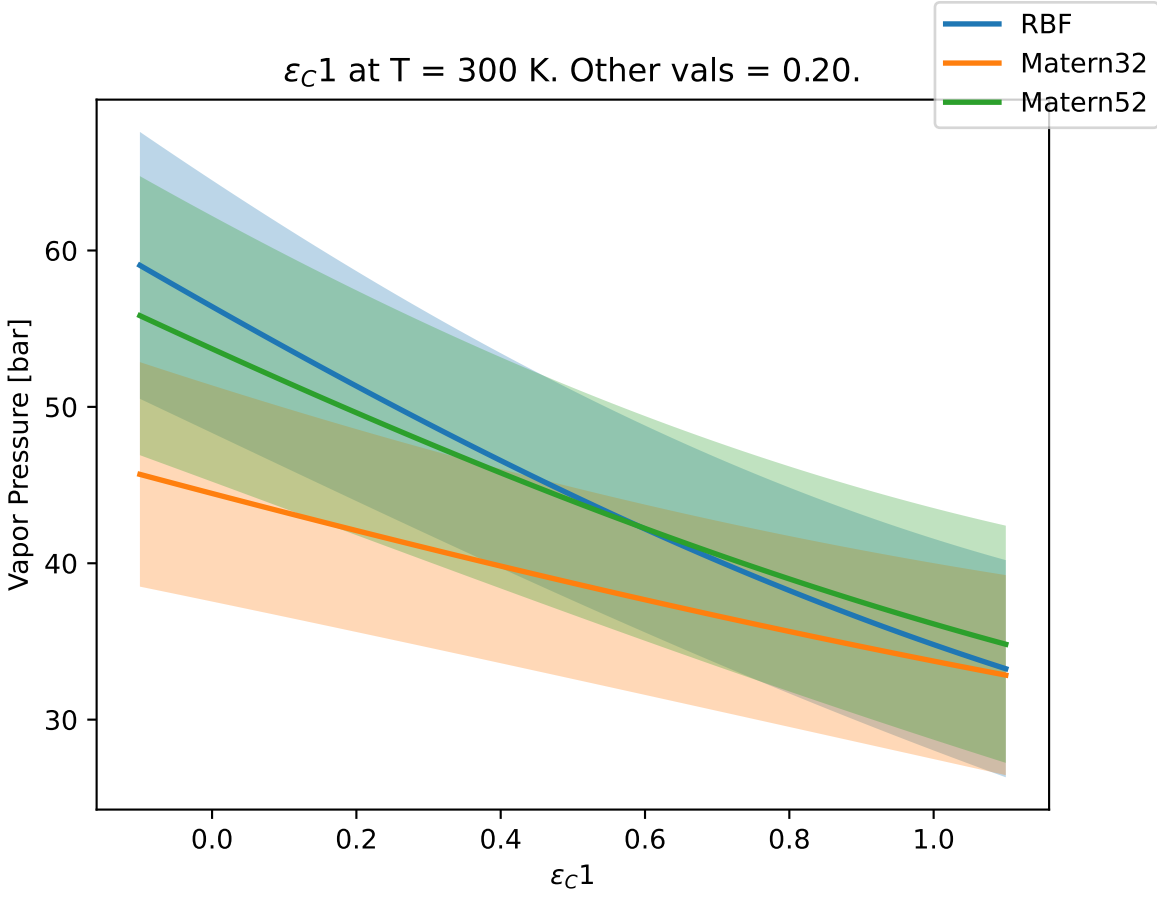

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
5.0
2.5
0.0
−2.5
−5.0
−7.5
−10.0
−12.5
−15.0
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

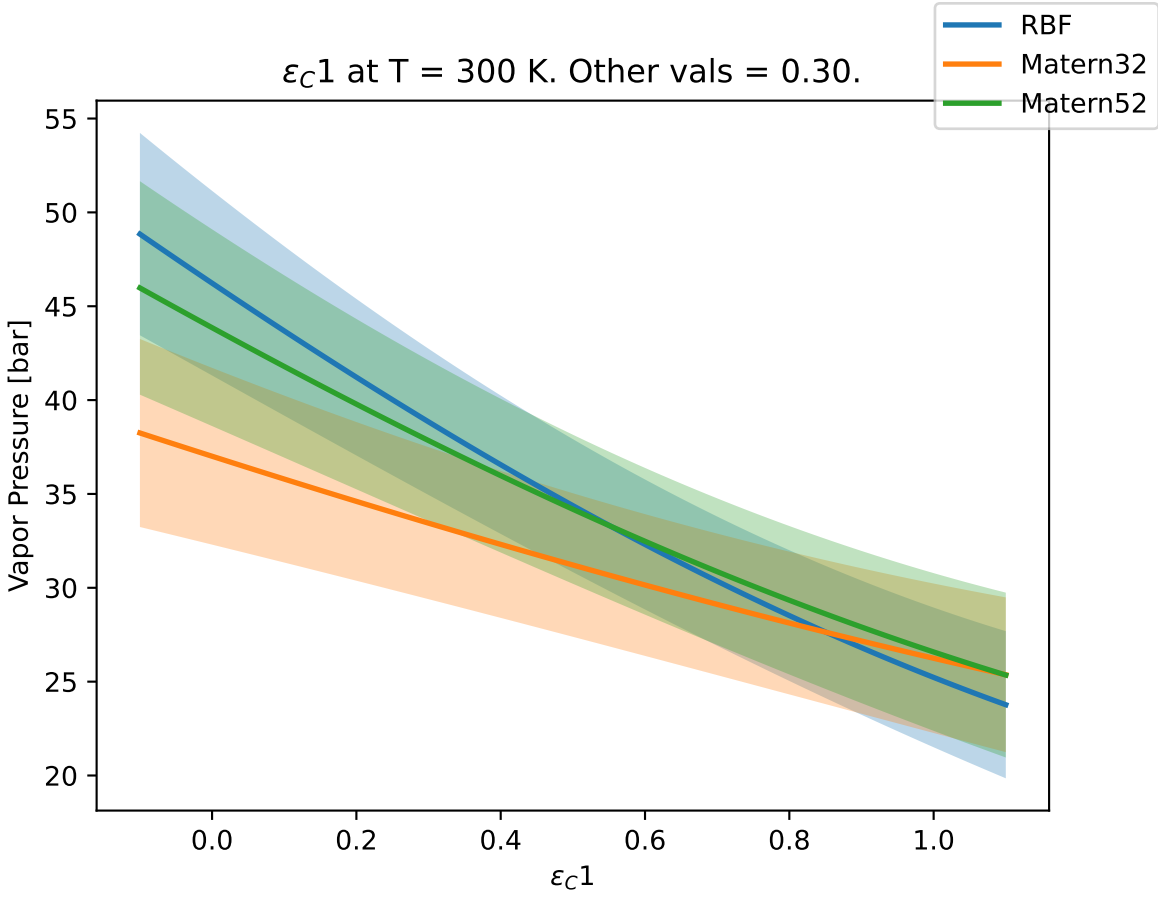

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
0
−5
−10
−15
−20
−25
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

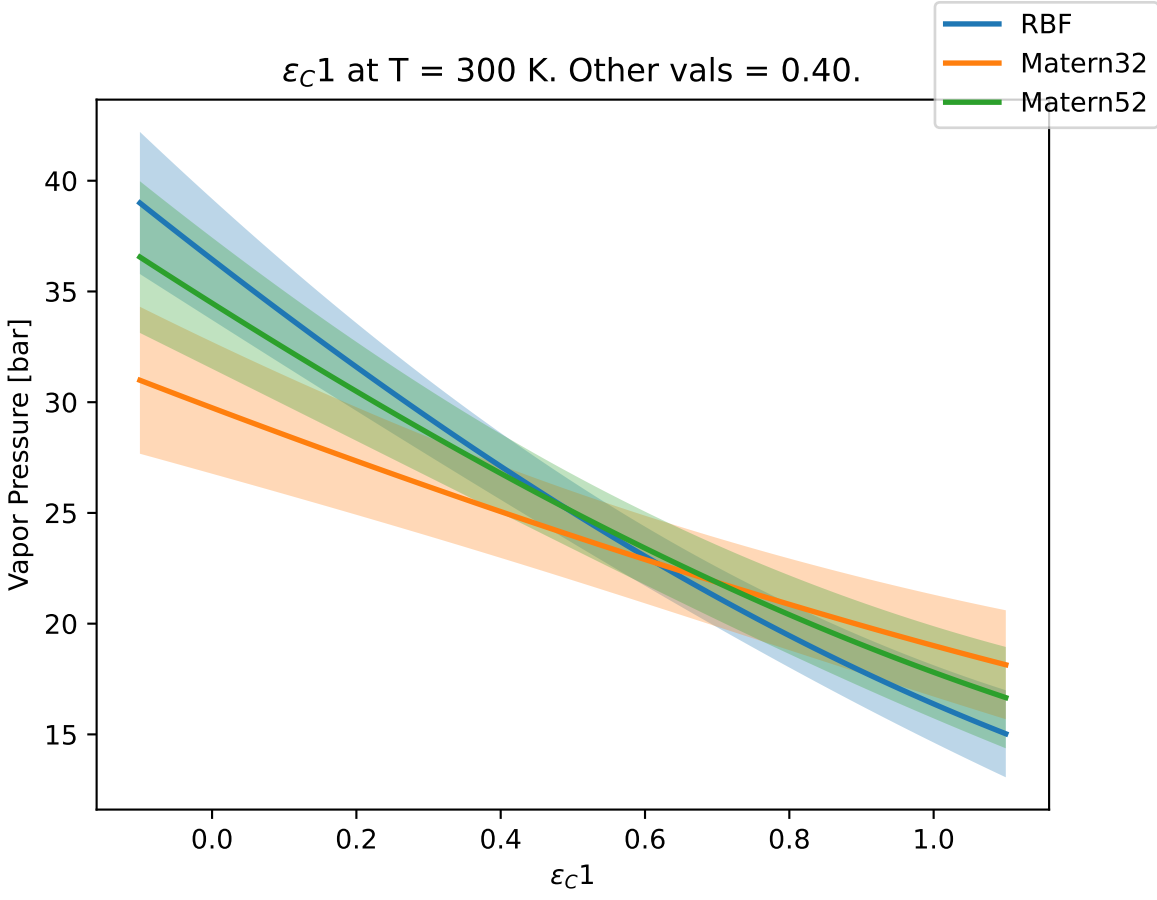

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
0
−5
−10
−15
−20
−25
−30
−35
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

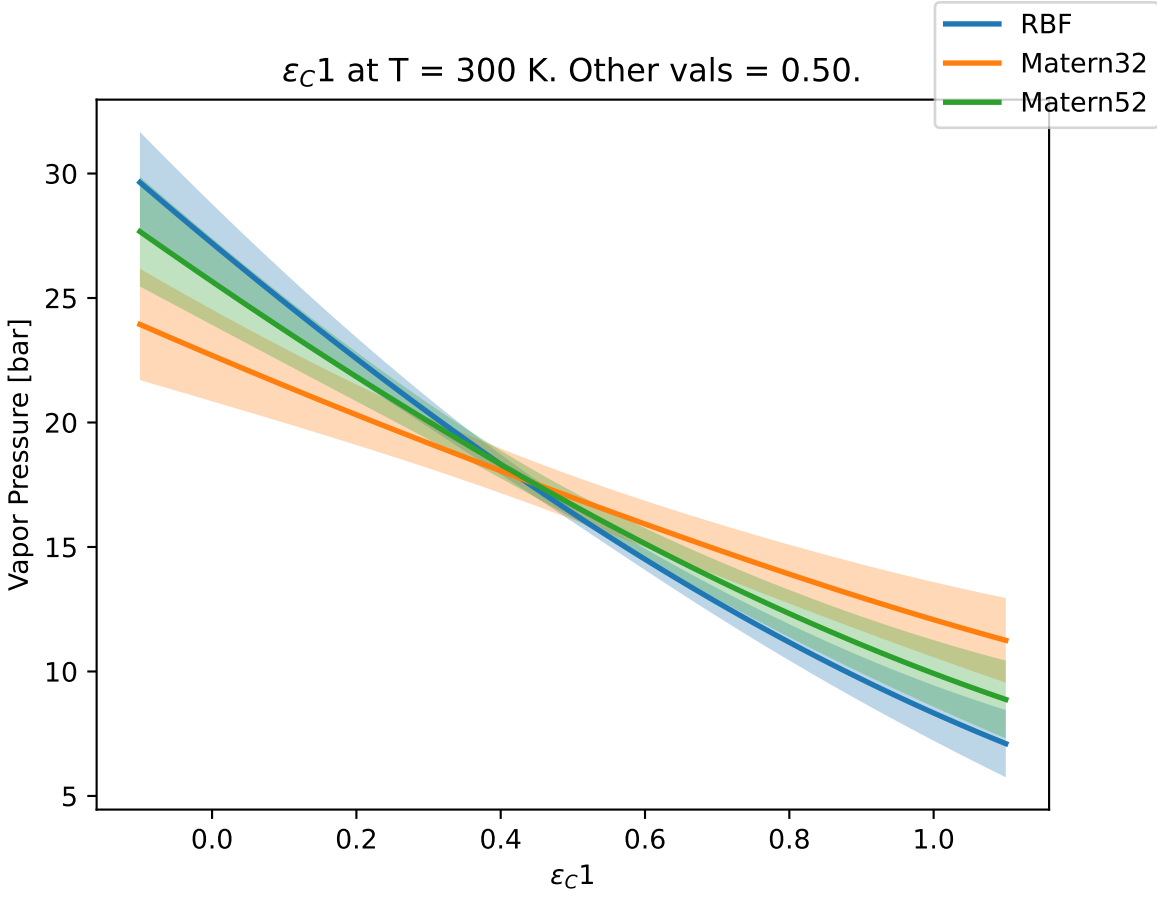

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

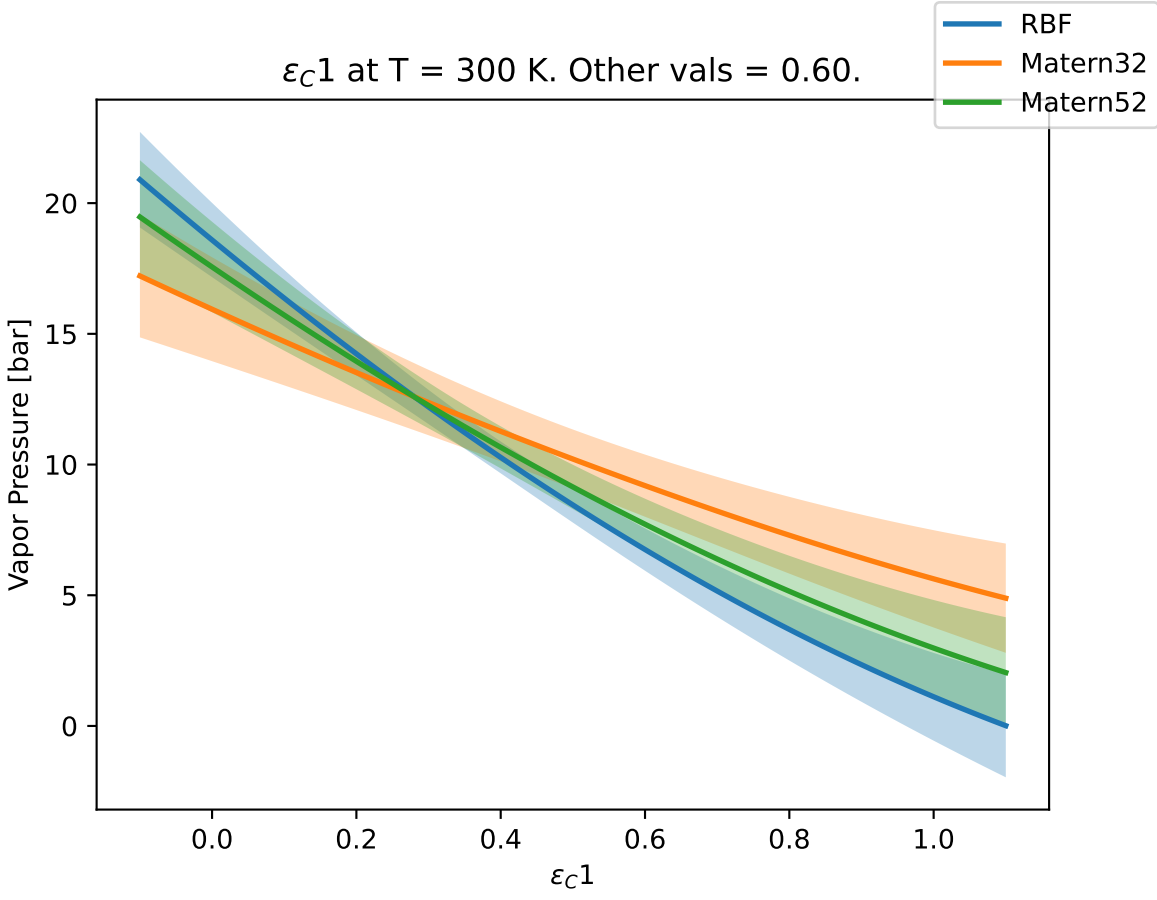

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

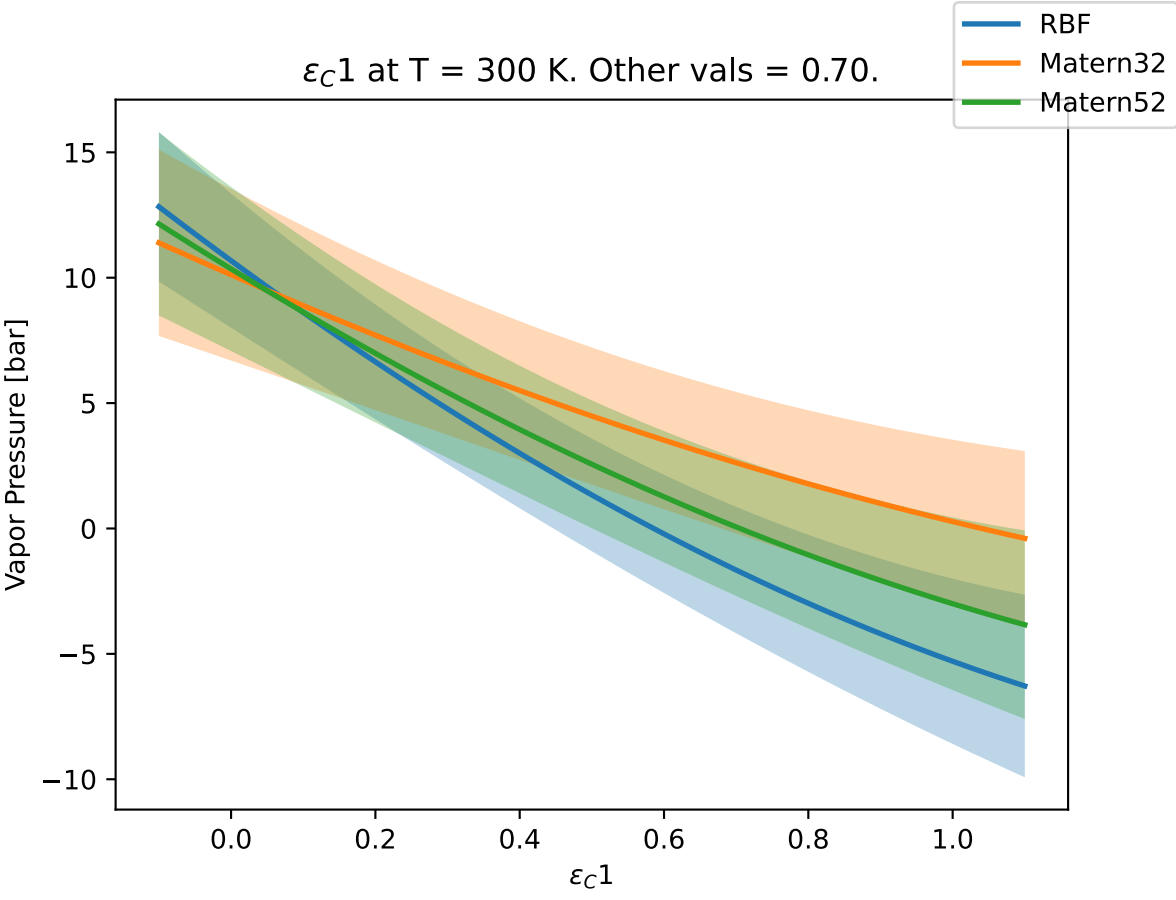

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

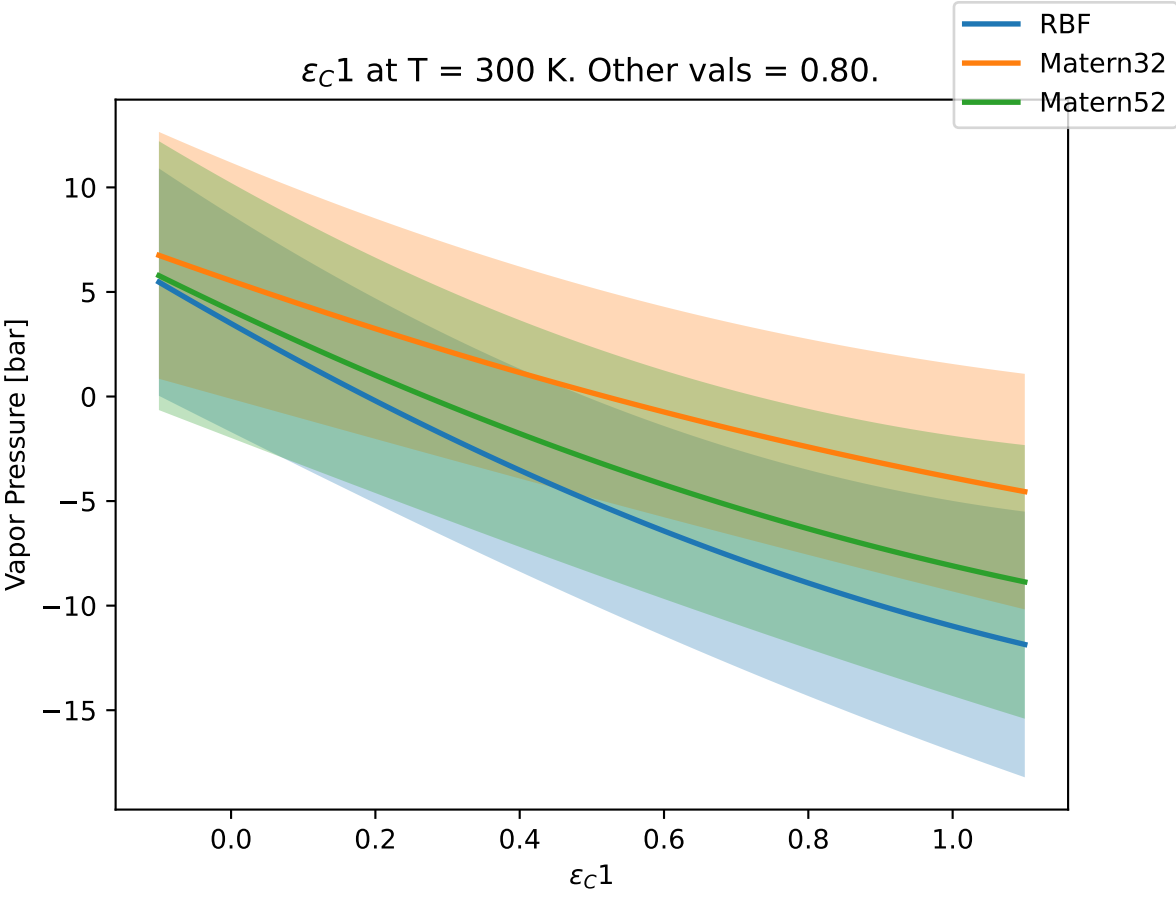

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
55
50
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

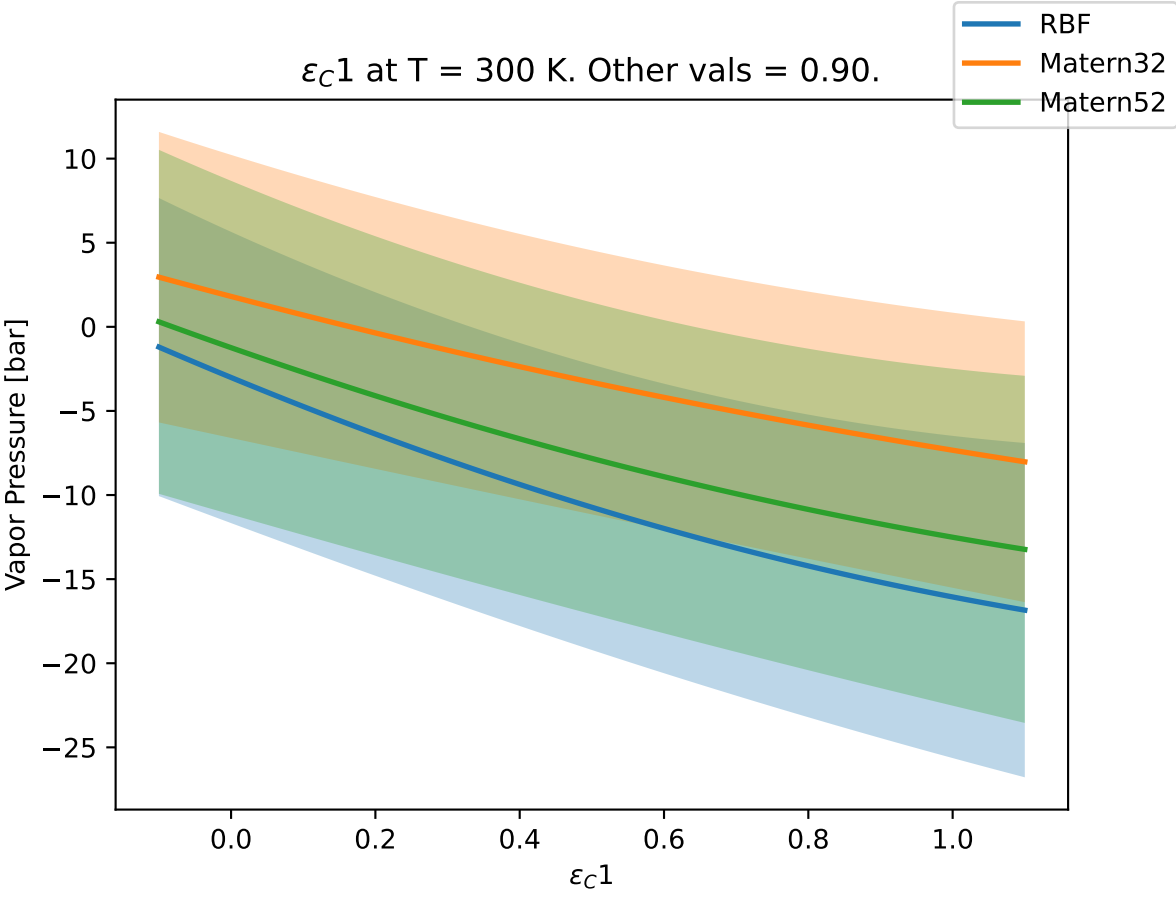

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

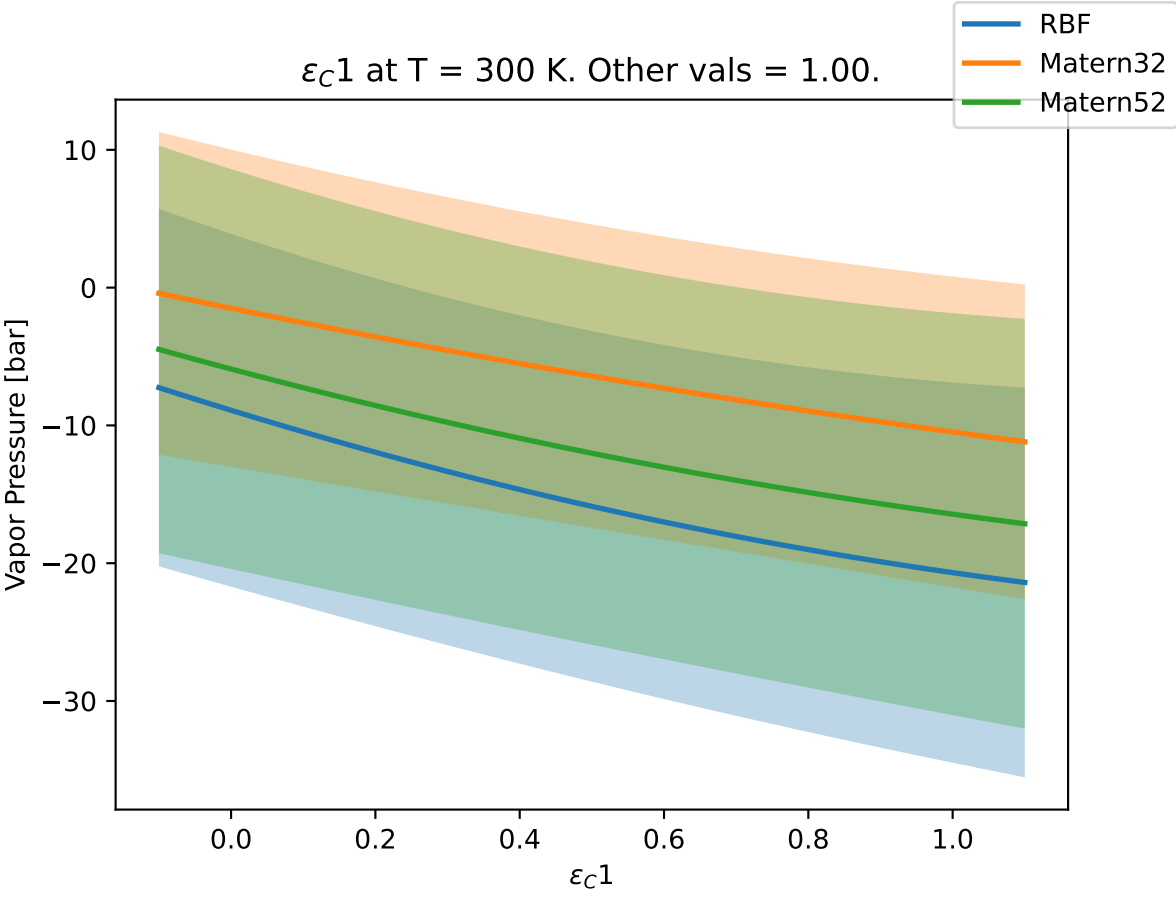

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

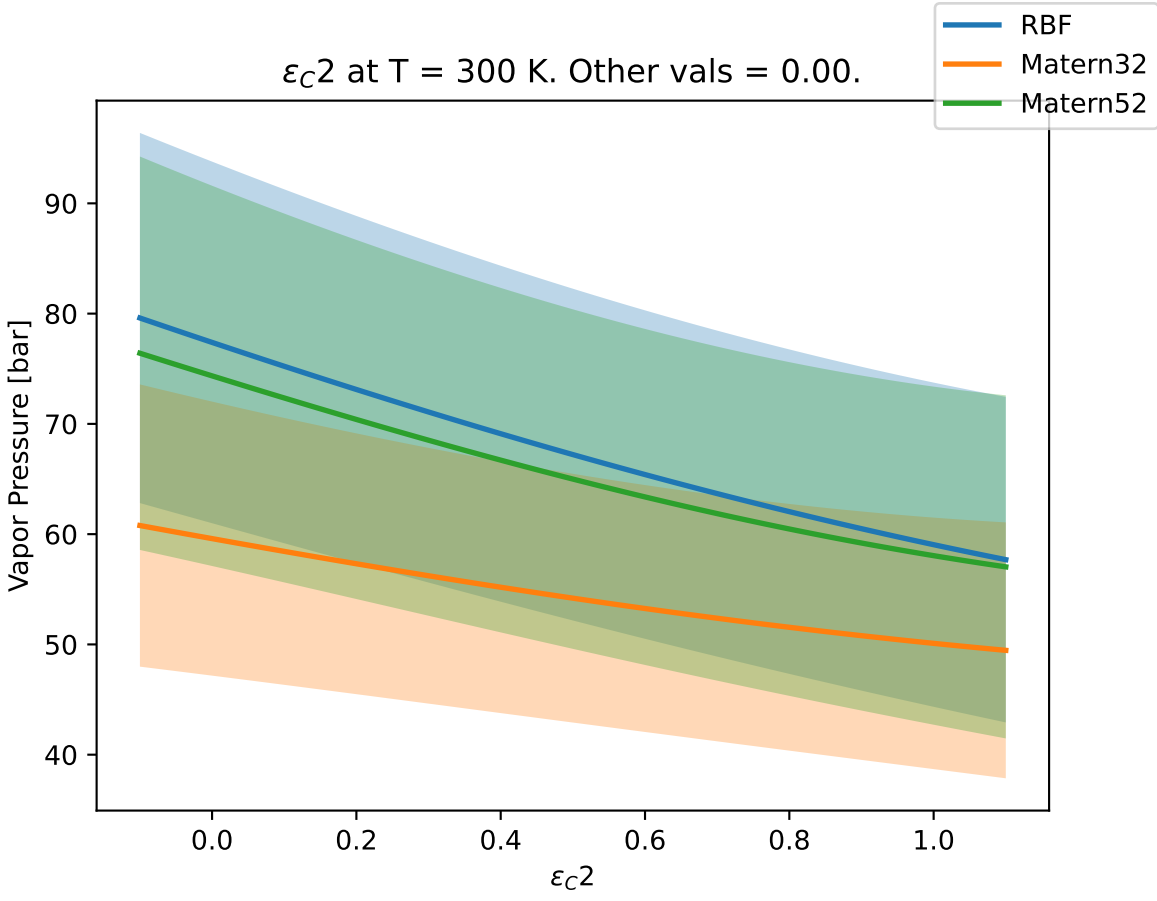

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
20
15
10
5
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

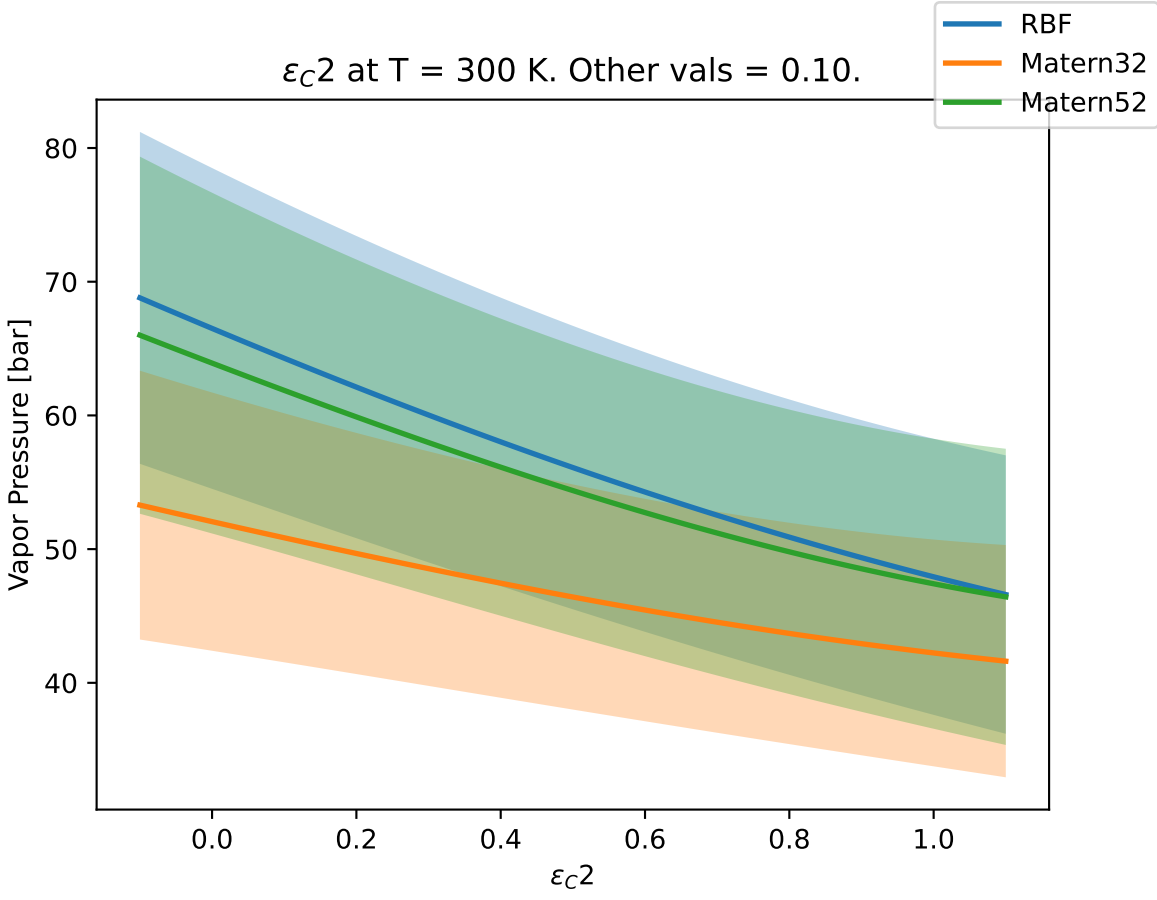

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
15
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

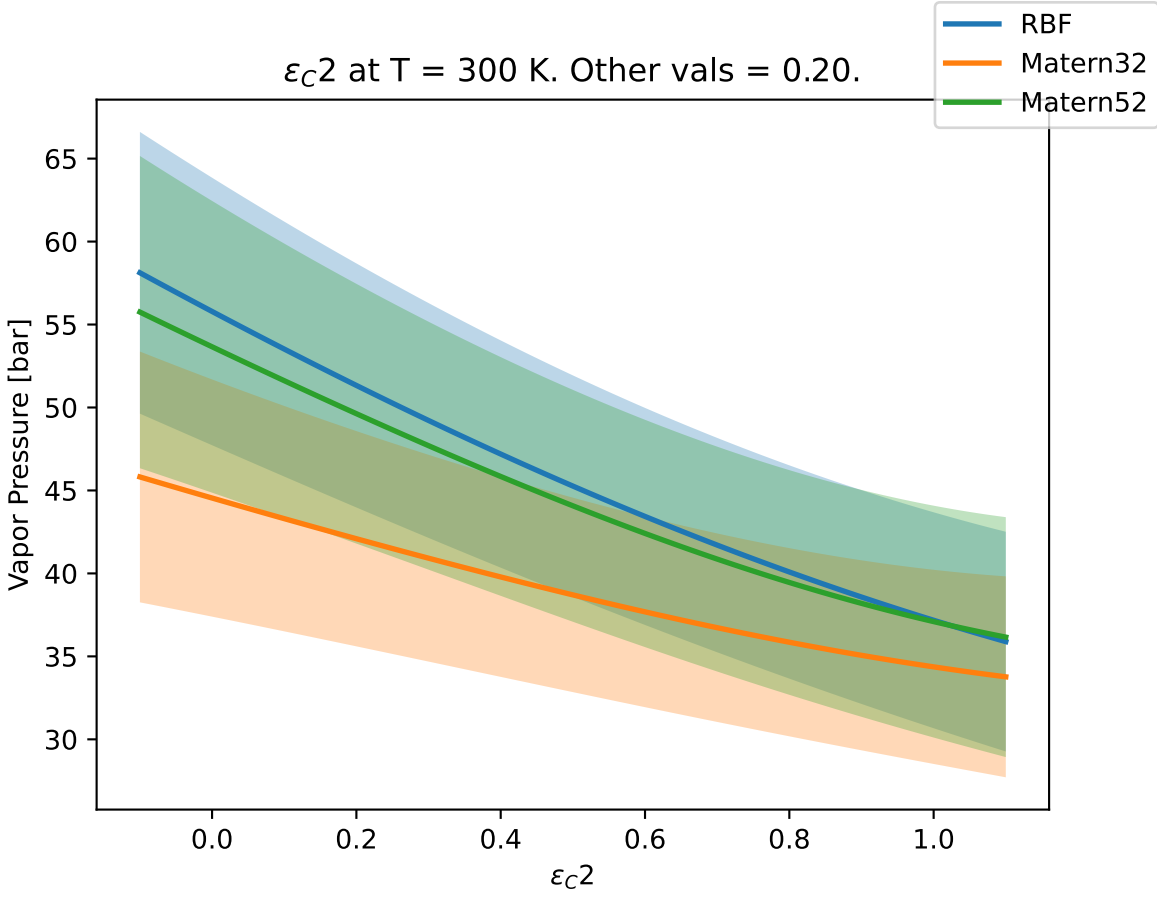

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

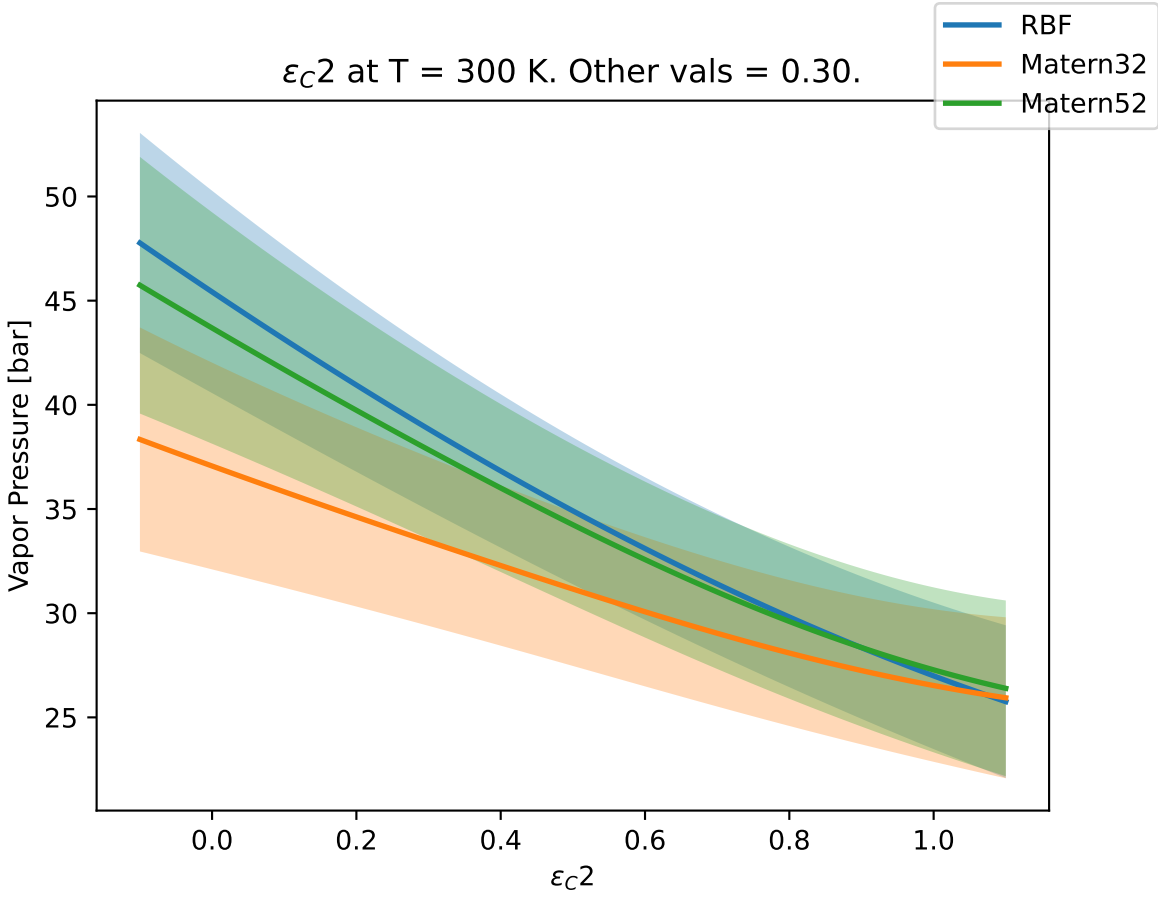

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
10
5
0
−5
−10
−15
−20
−25
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

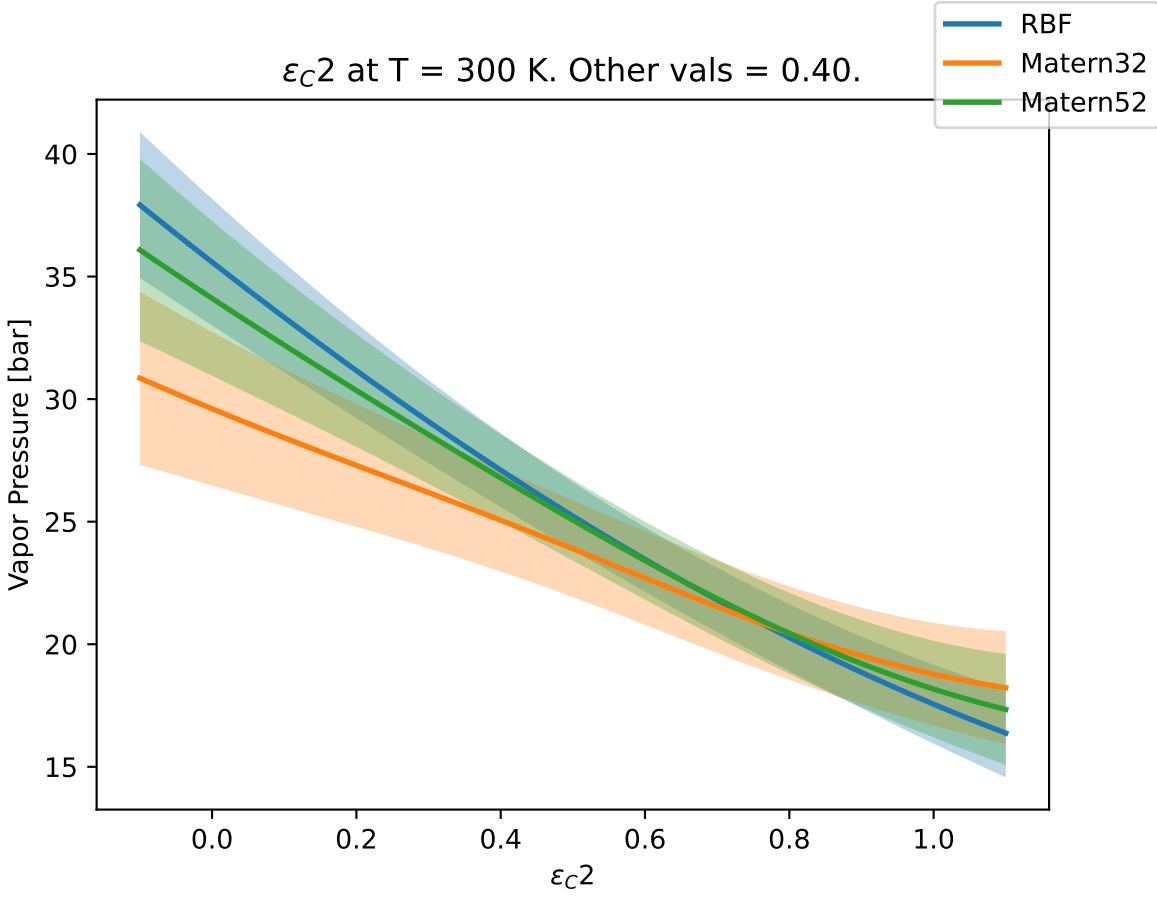

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

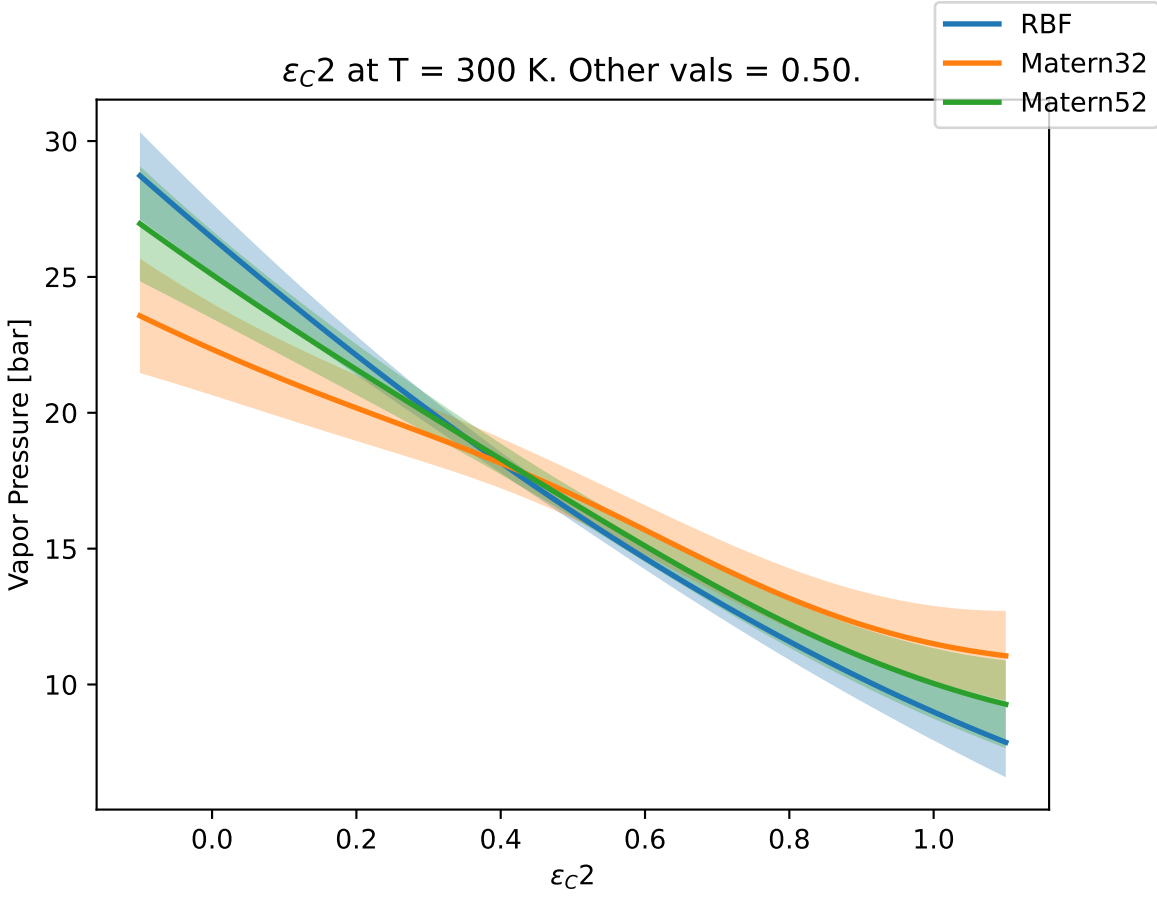

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

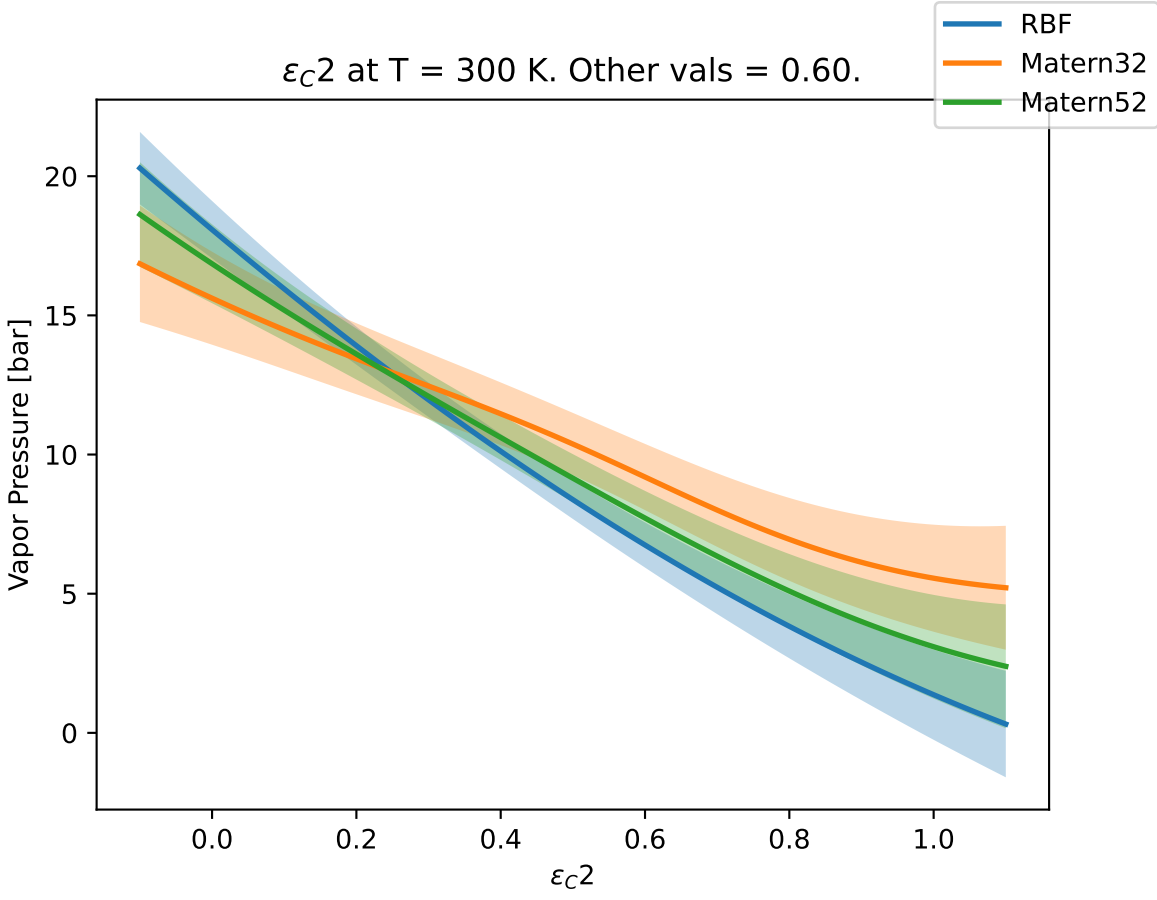

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

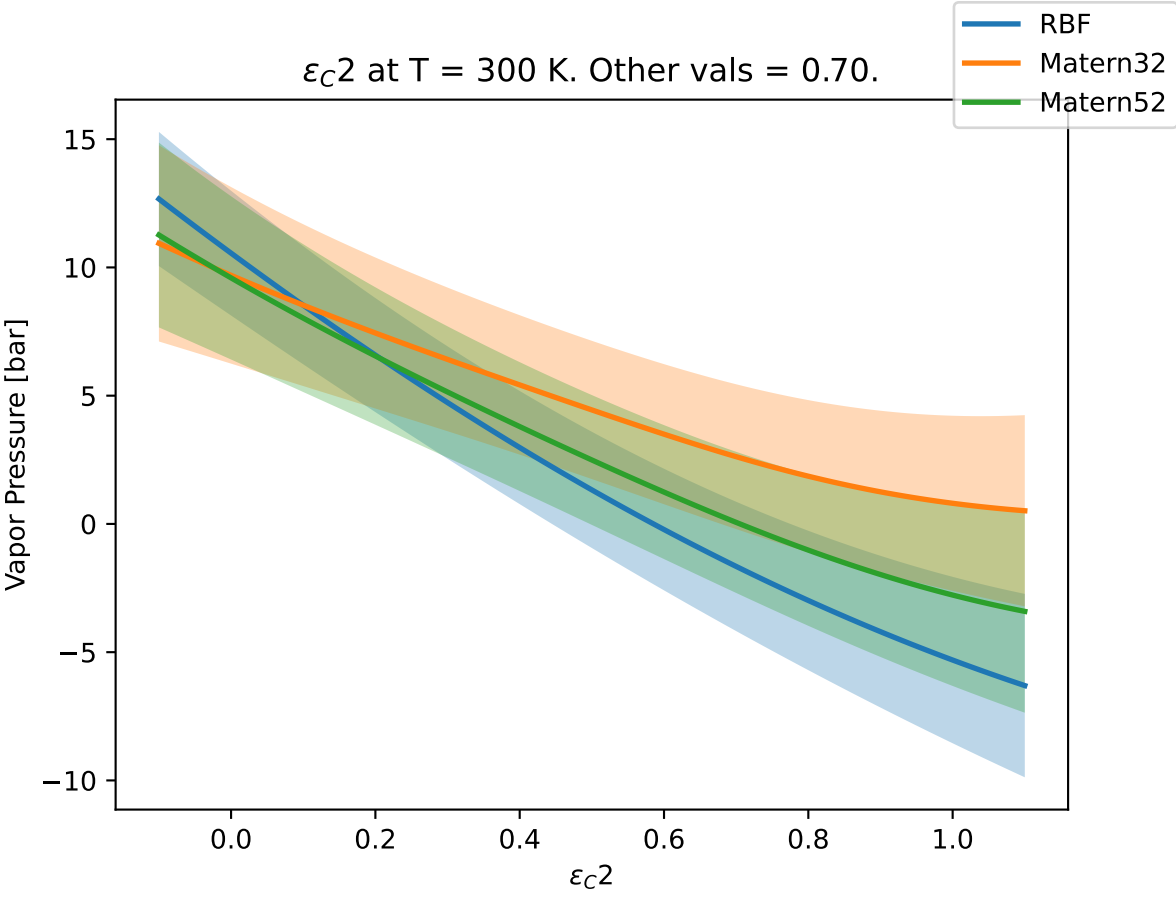

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
65
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

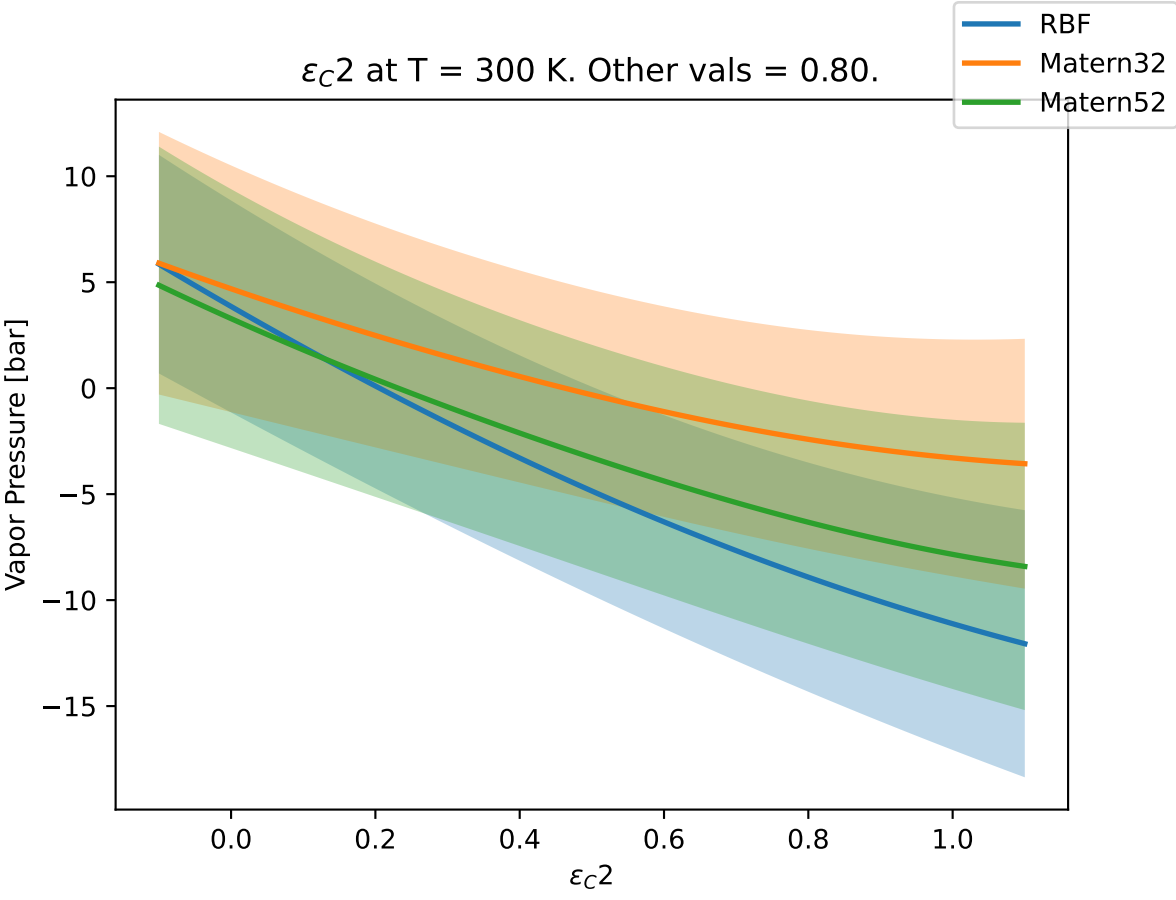

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

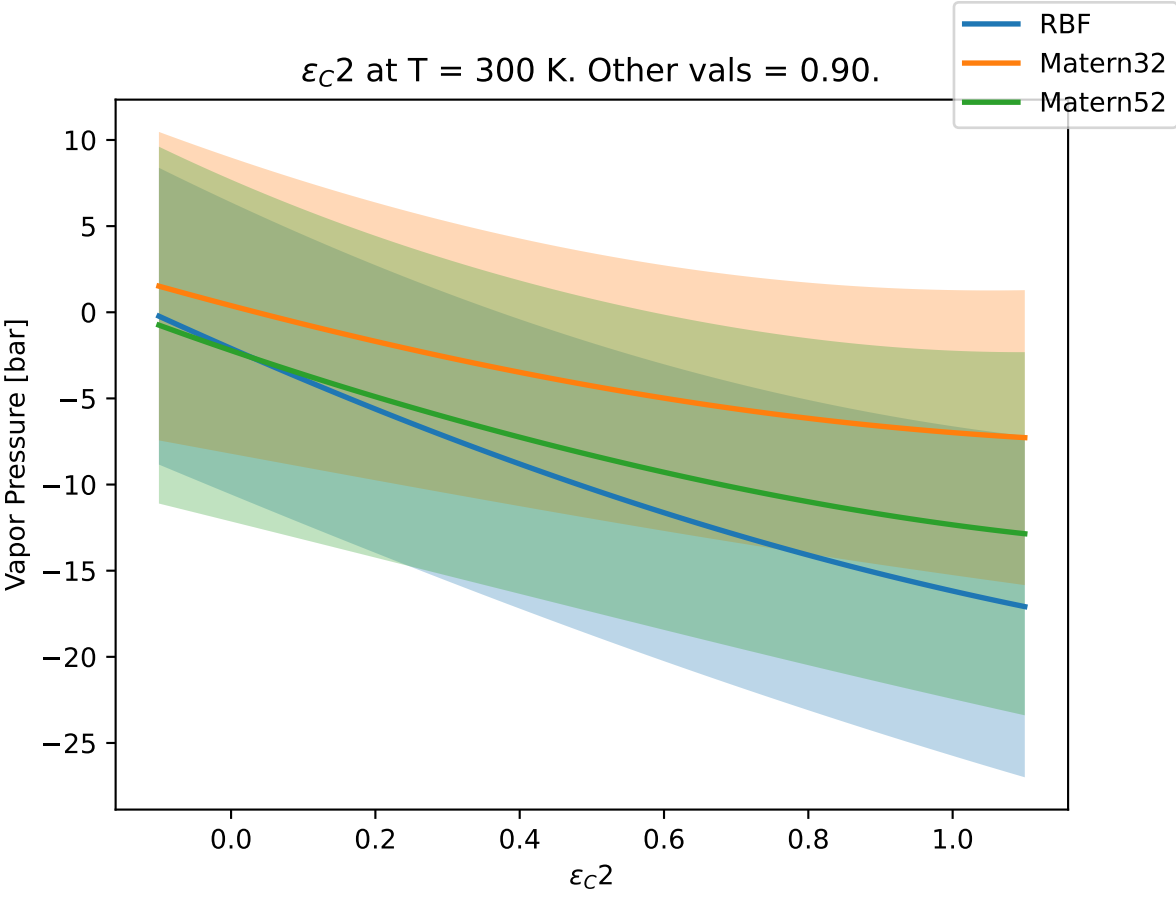

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

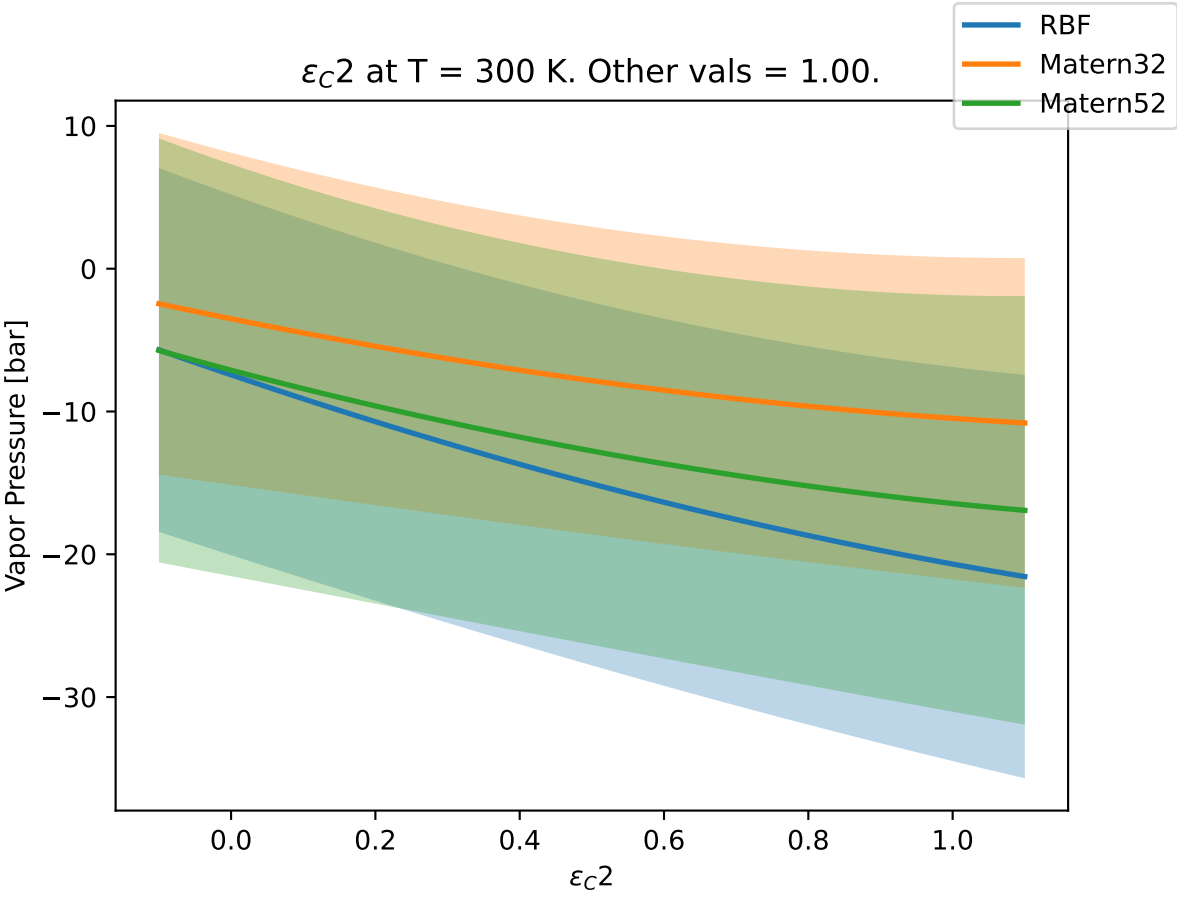

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
30
25
20
15
10
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

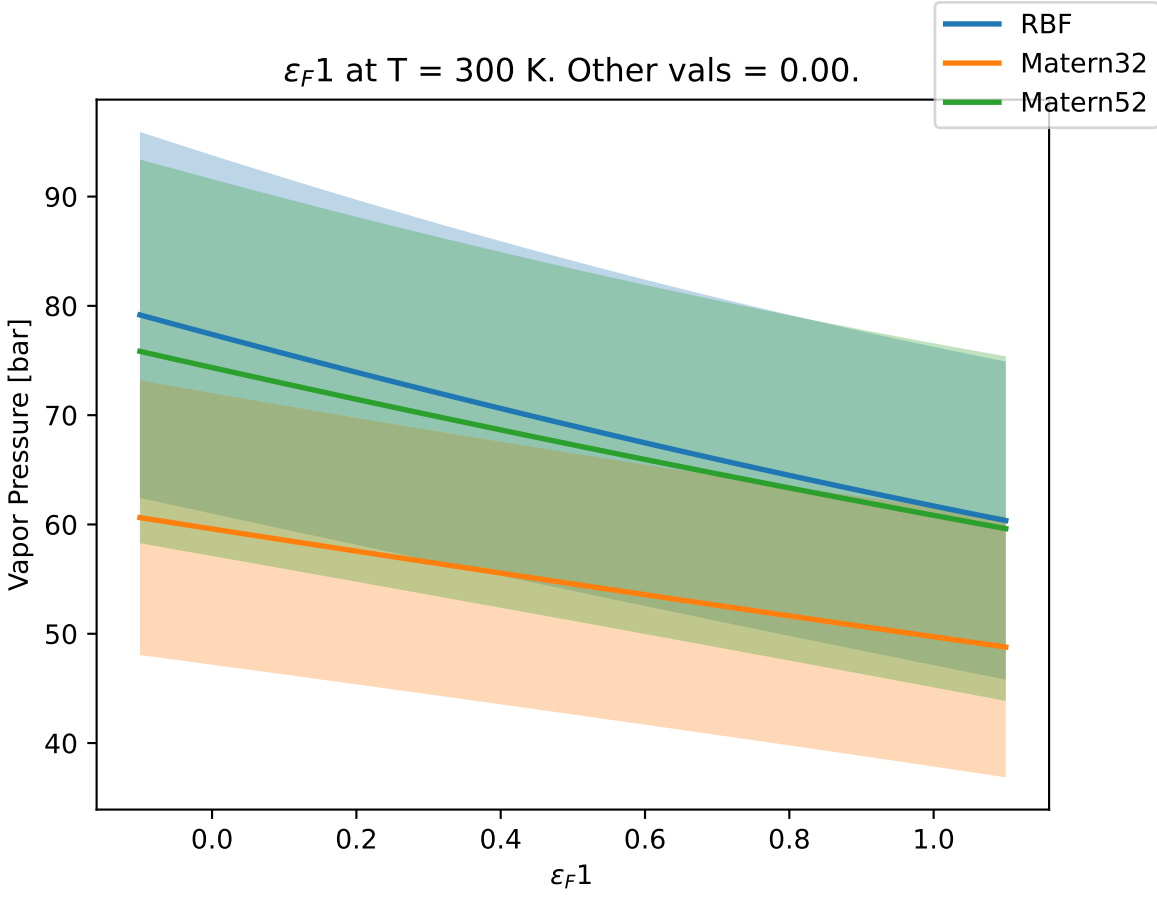

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
20
15
10
5
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

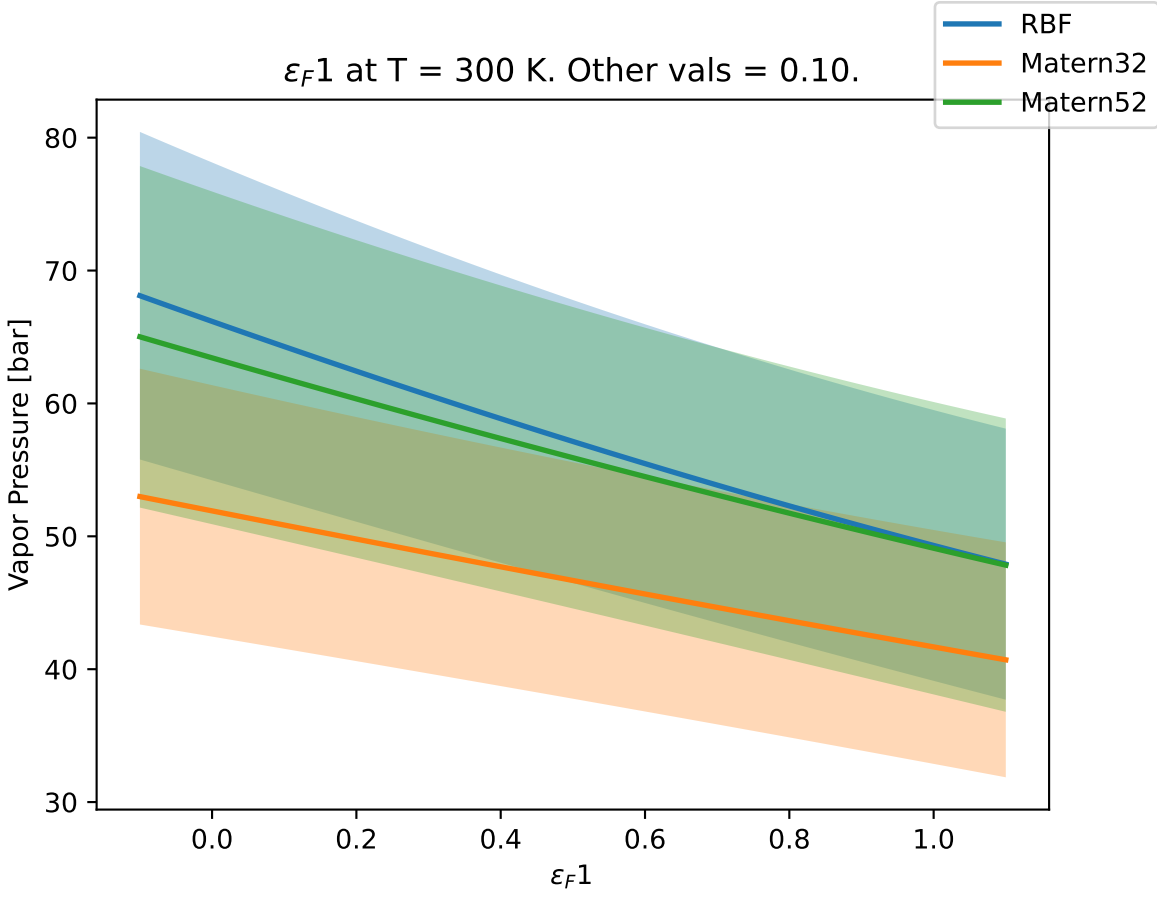

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
15
10
5
0
−5
−10
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

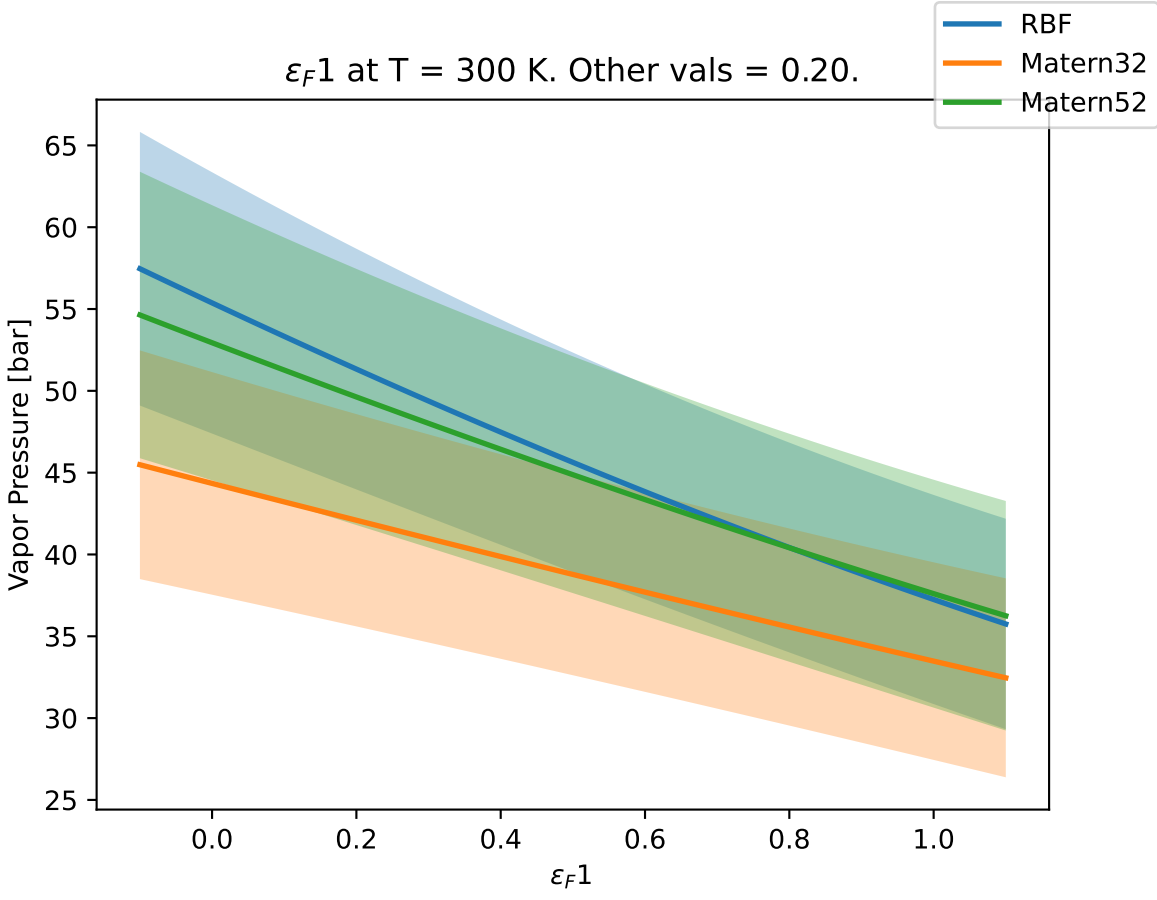

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

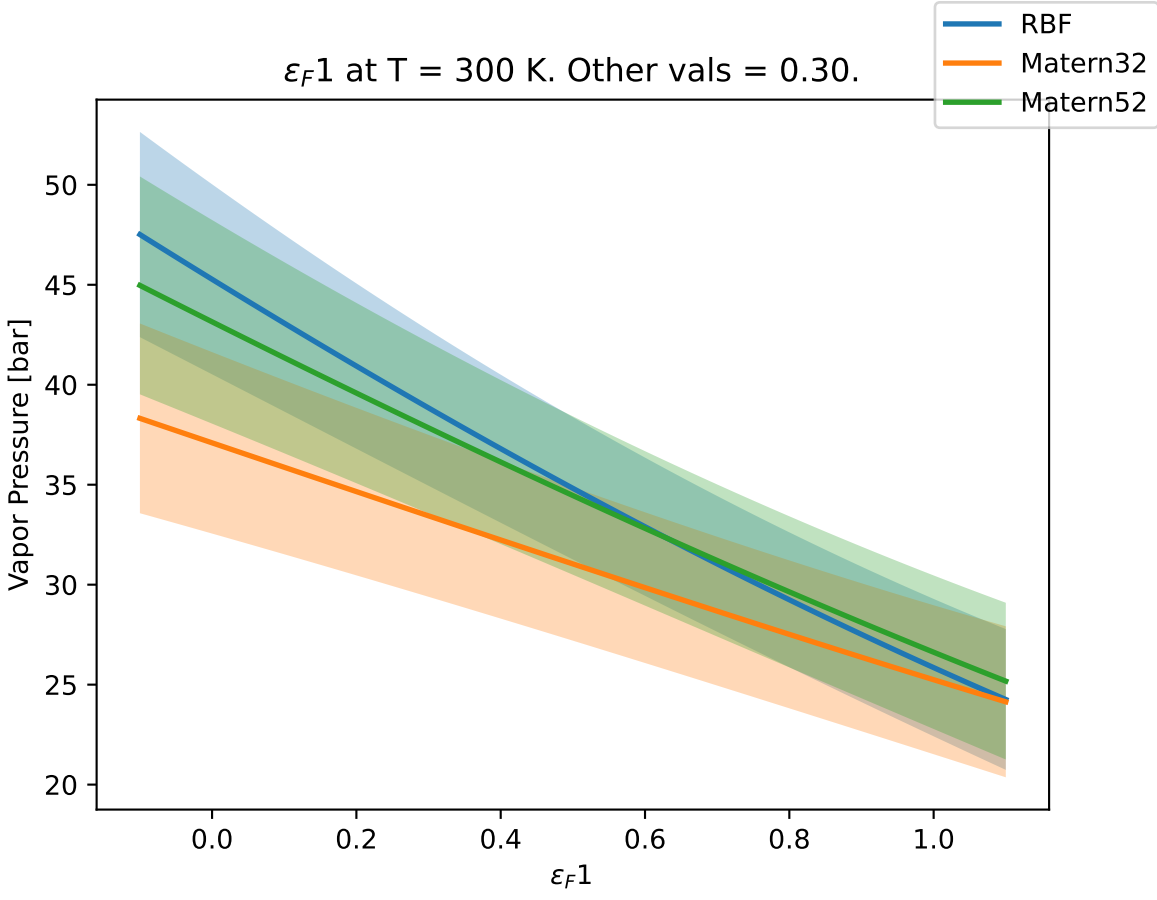

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
10
5
0
−5
−10
−15
−20
−25
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

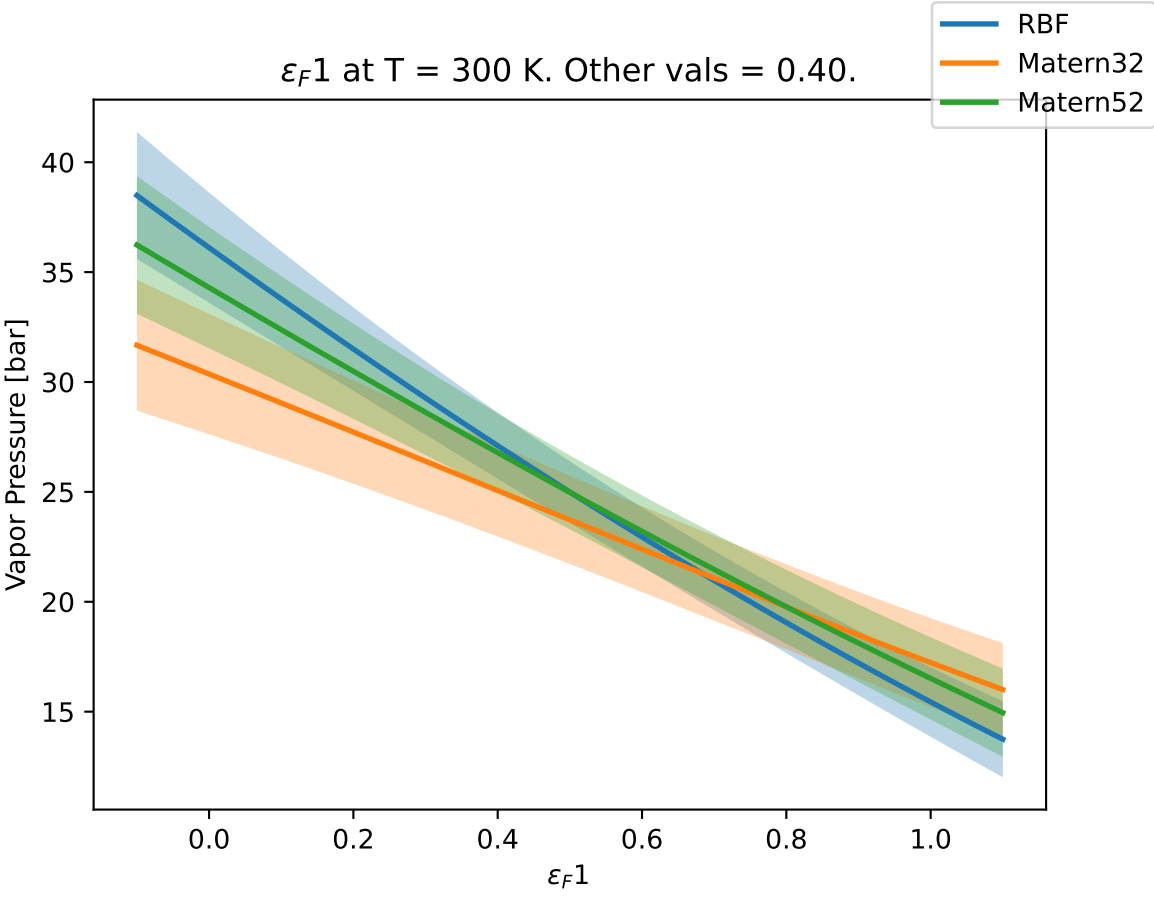

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 1.00.
10
0
−10
−20
−30
Vapor Pressure [bar]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

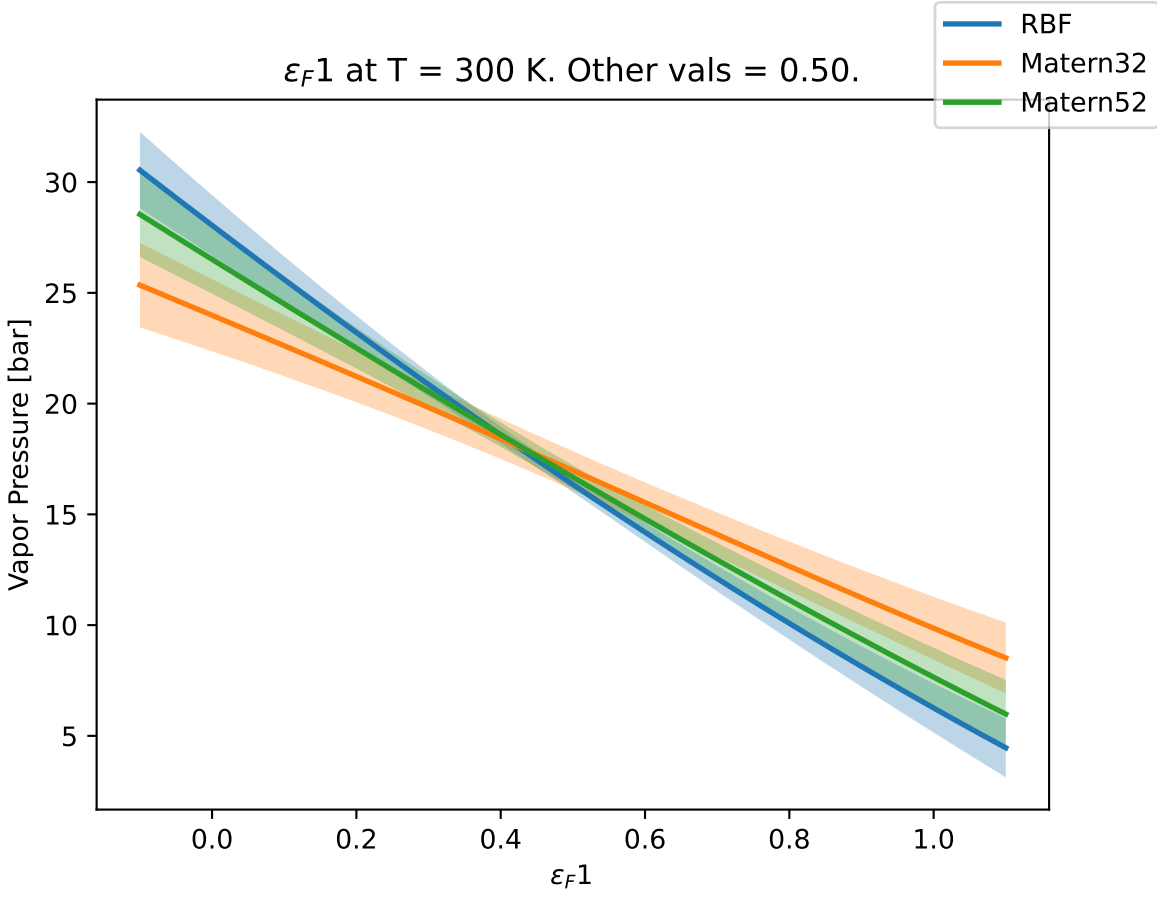

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

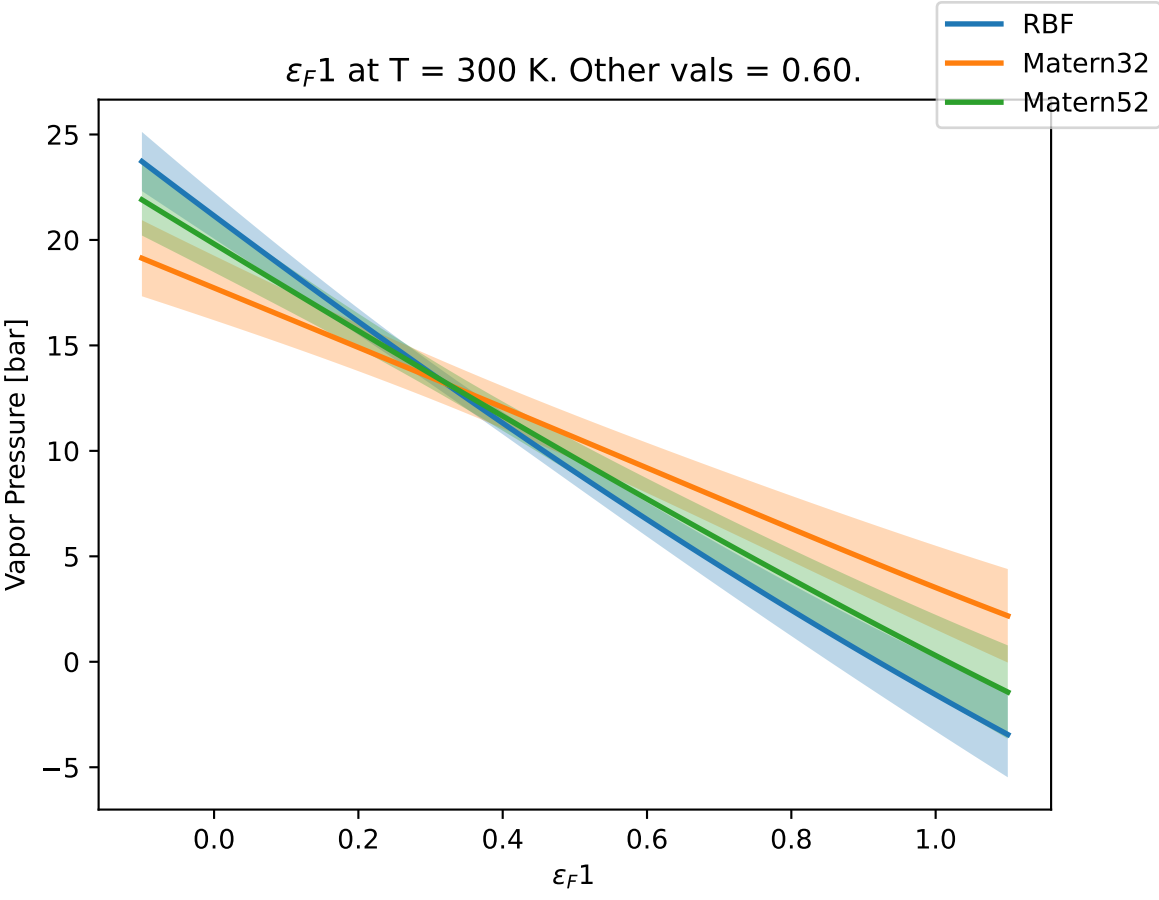

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
80
70
60
50
40
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

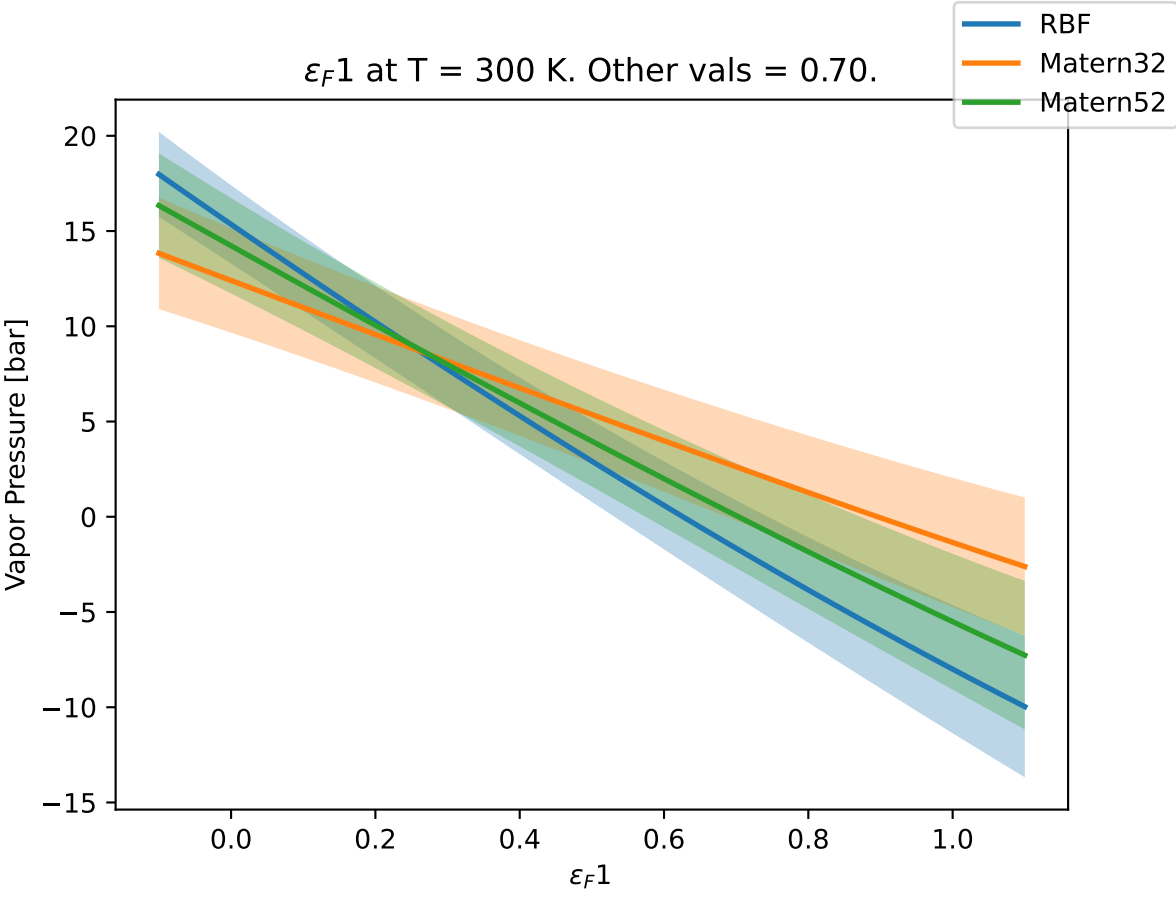

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
65
60
55
50
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

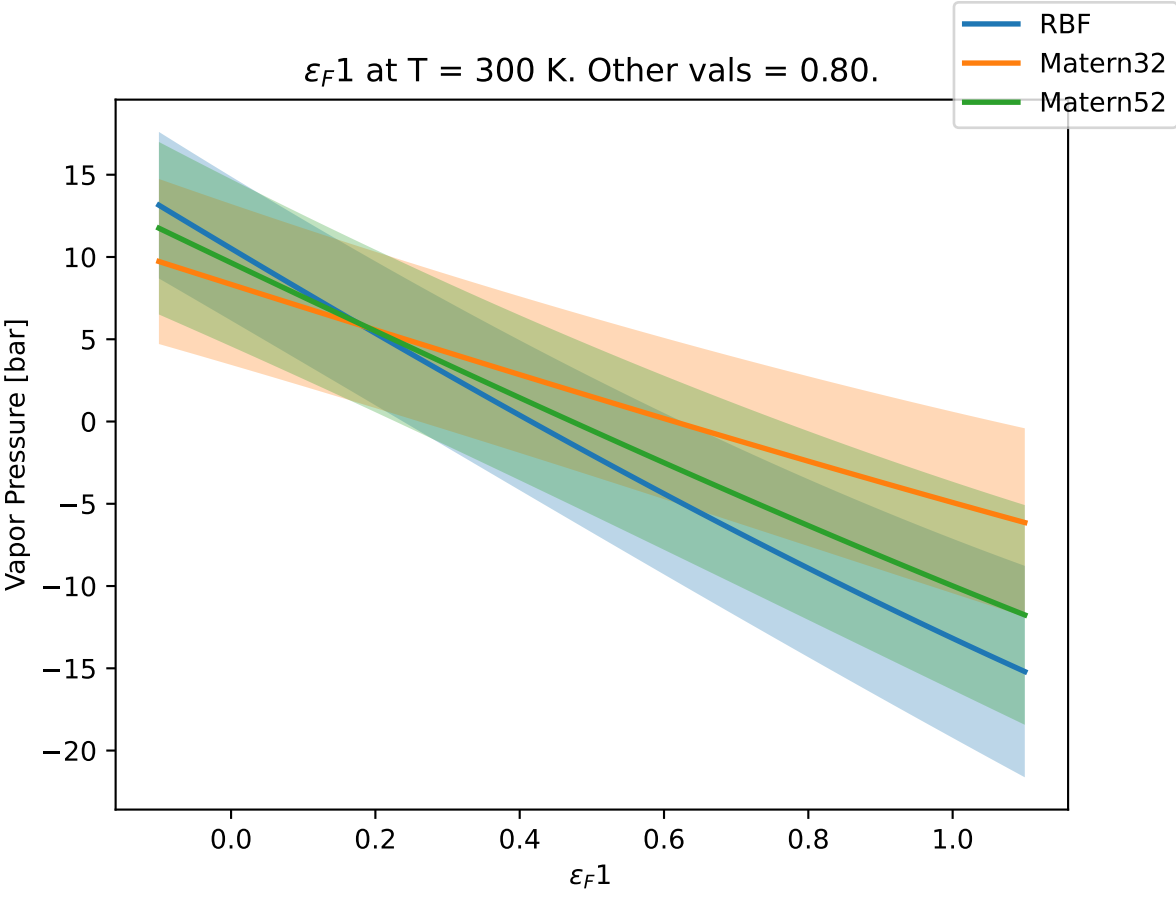

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
50
45
40
35
30
25
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

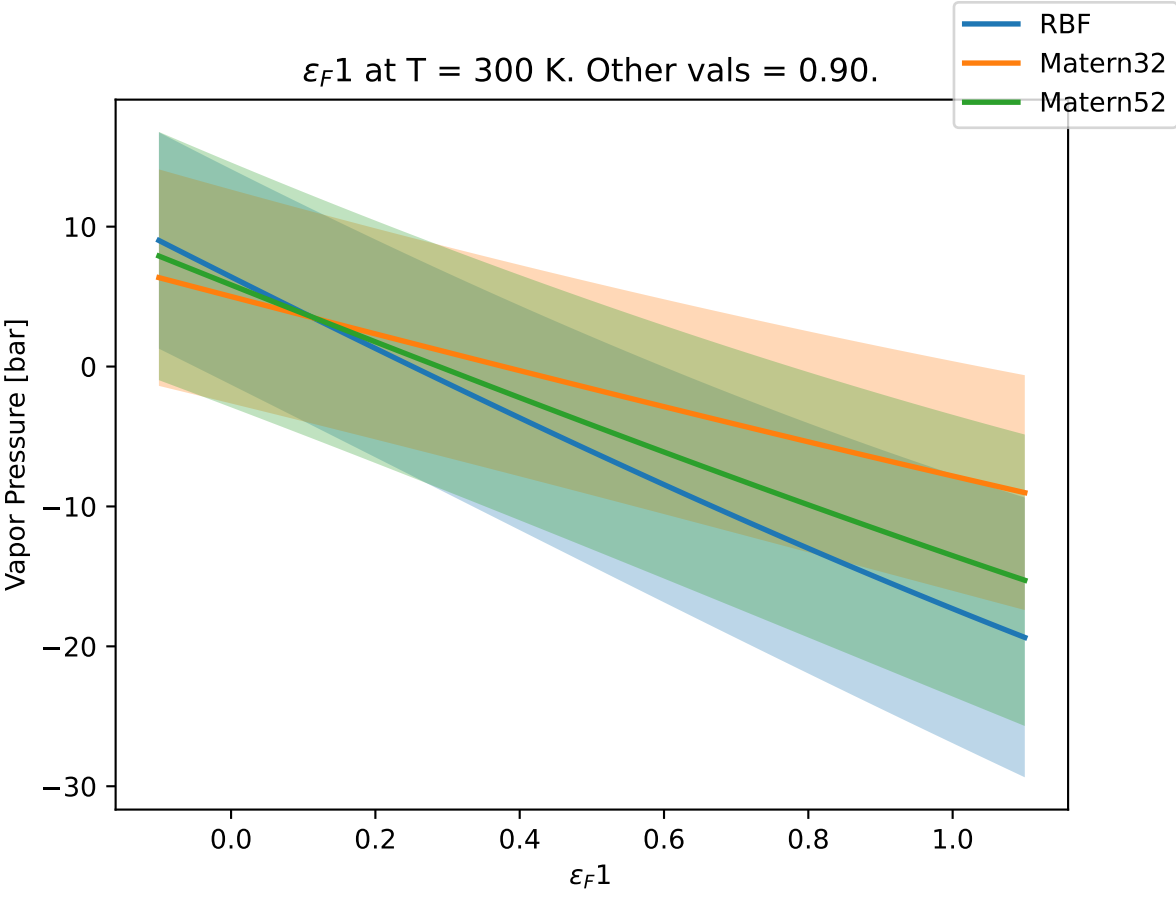

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
40
35
30
25
20
15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

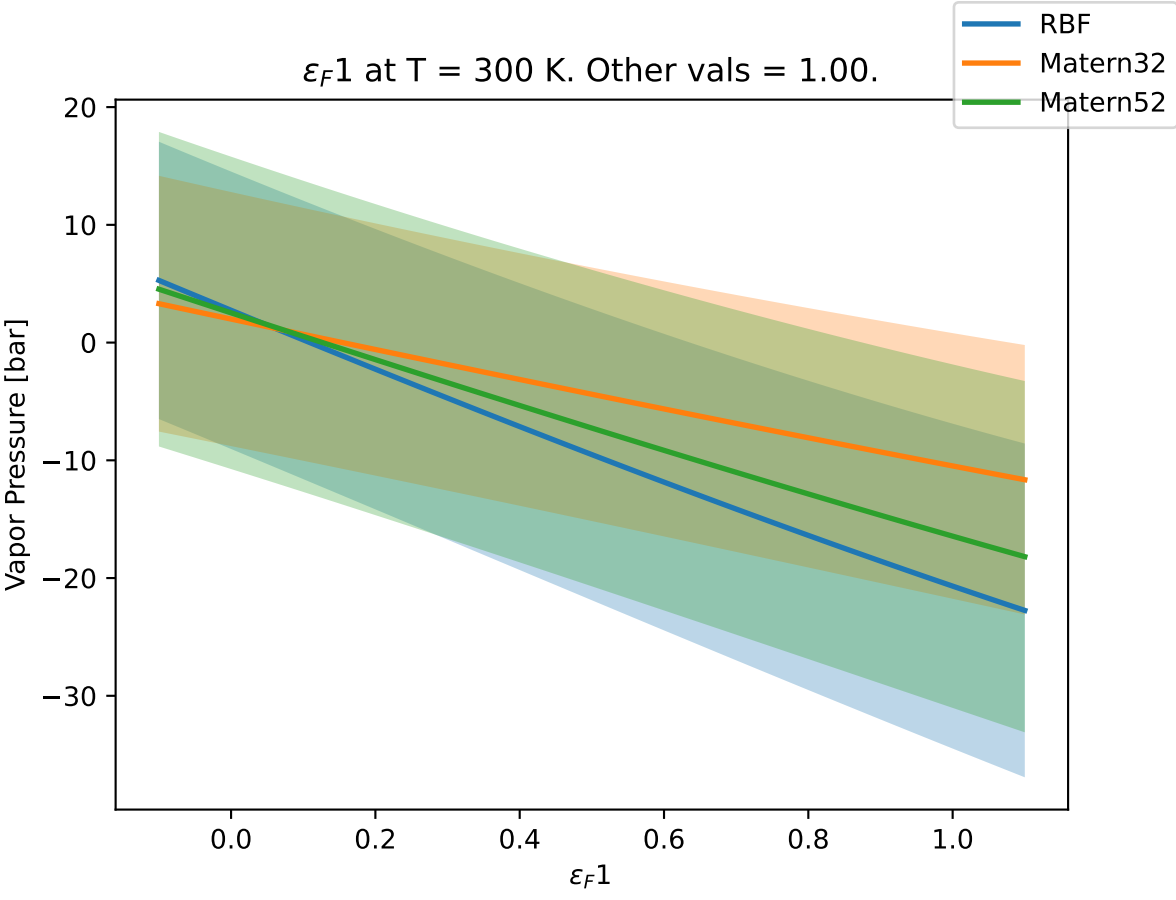

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
30
25
20
15
10
5
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

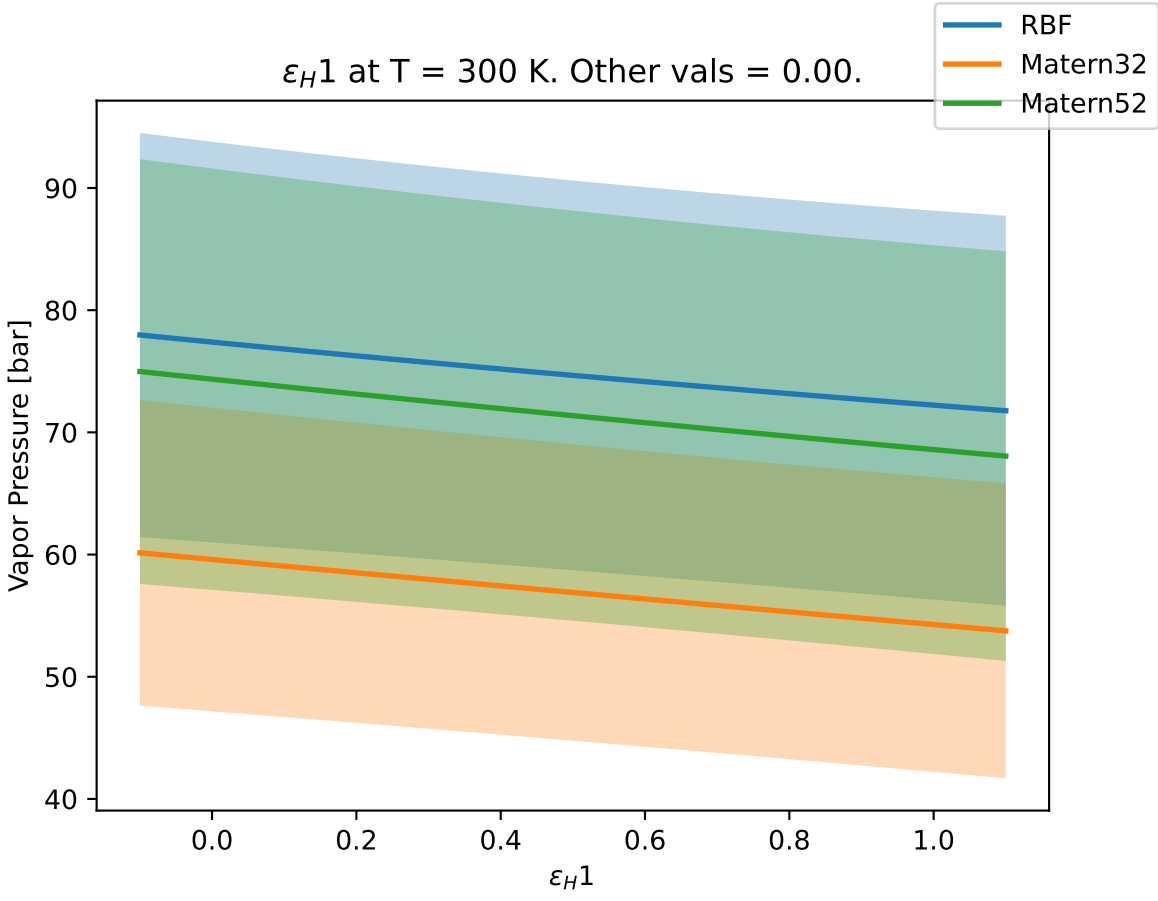

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
25
20
15
10
5
0
−5
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

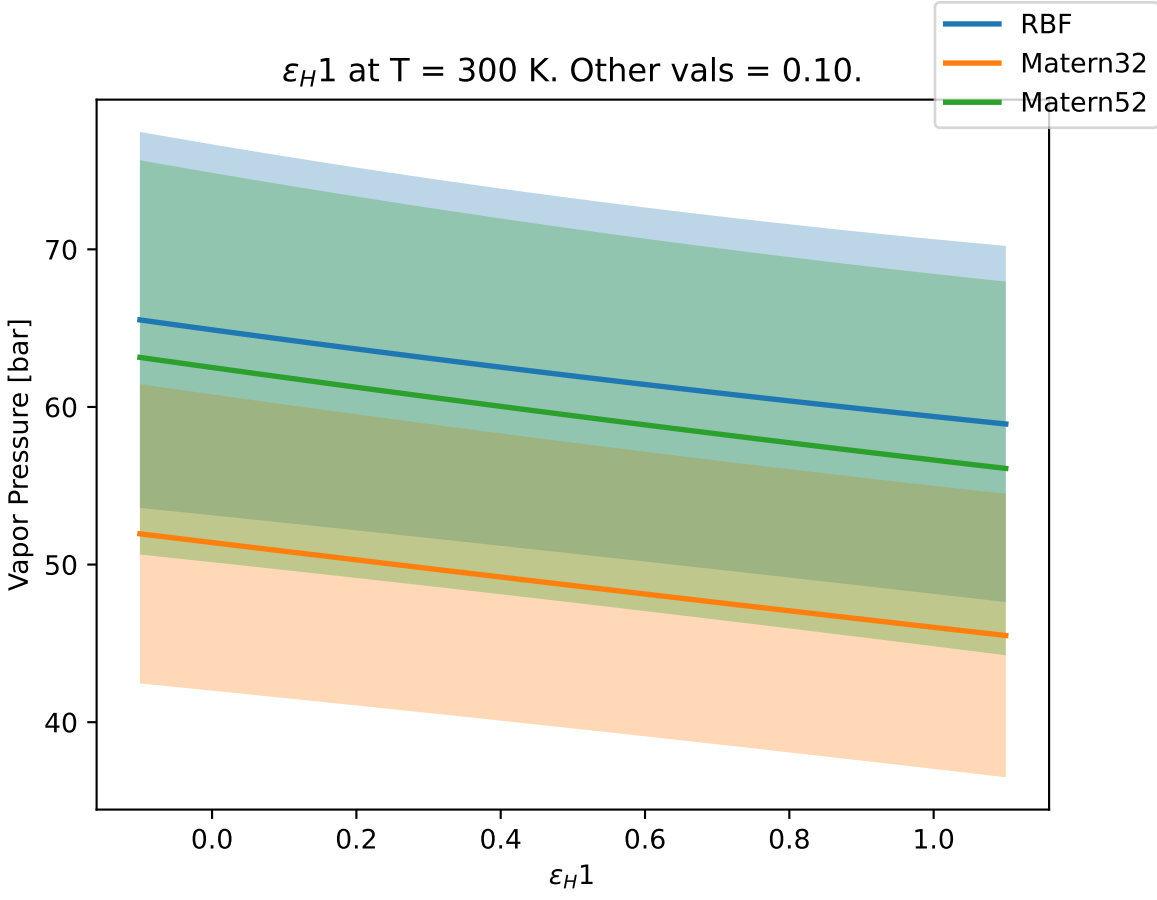

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
20
15
10
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

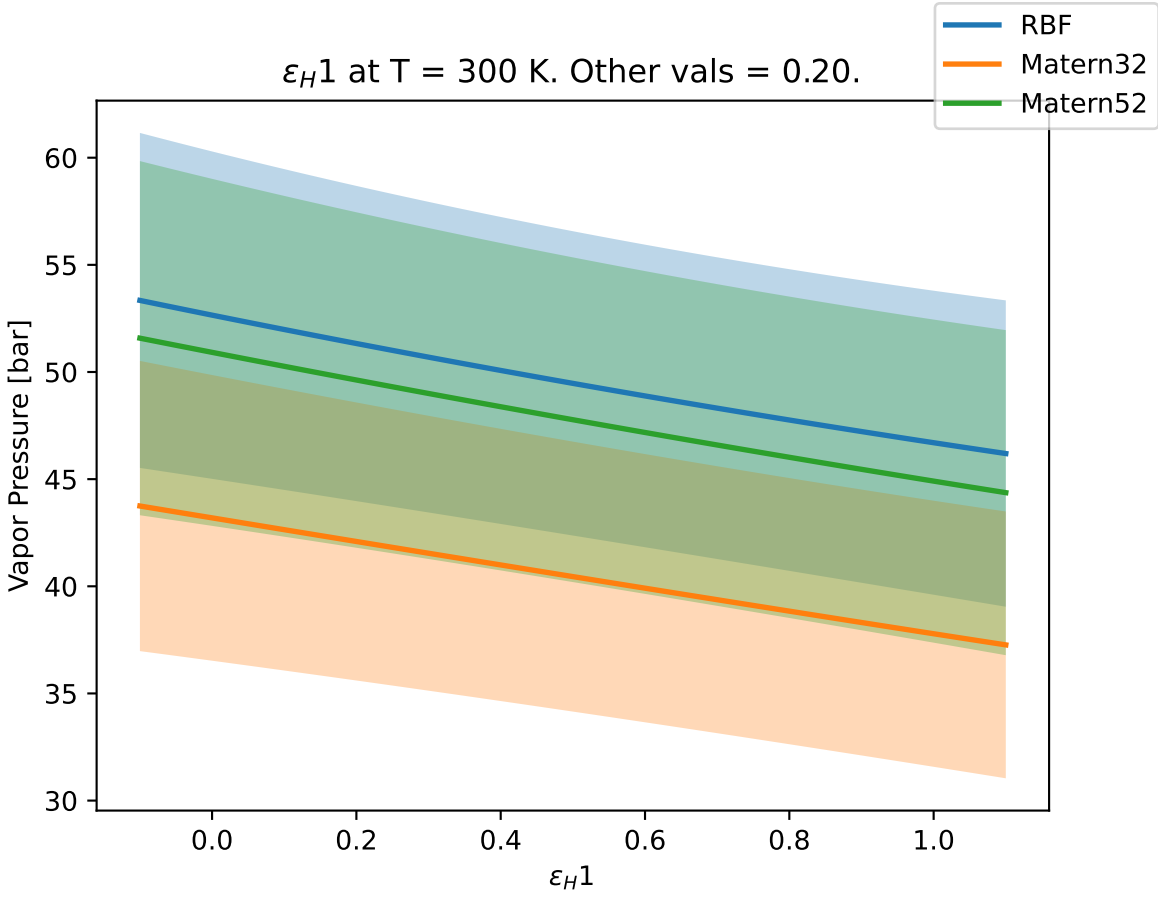

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
15
10
5
0
−5
−10
−15
−20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

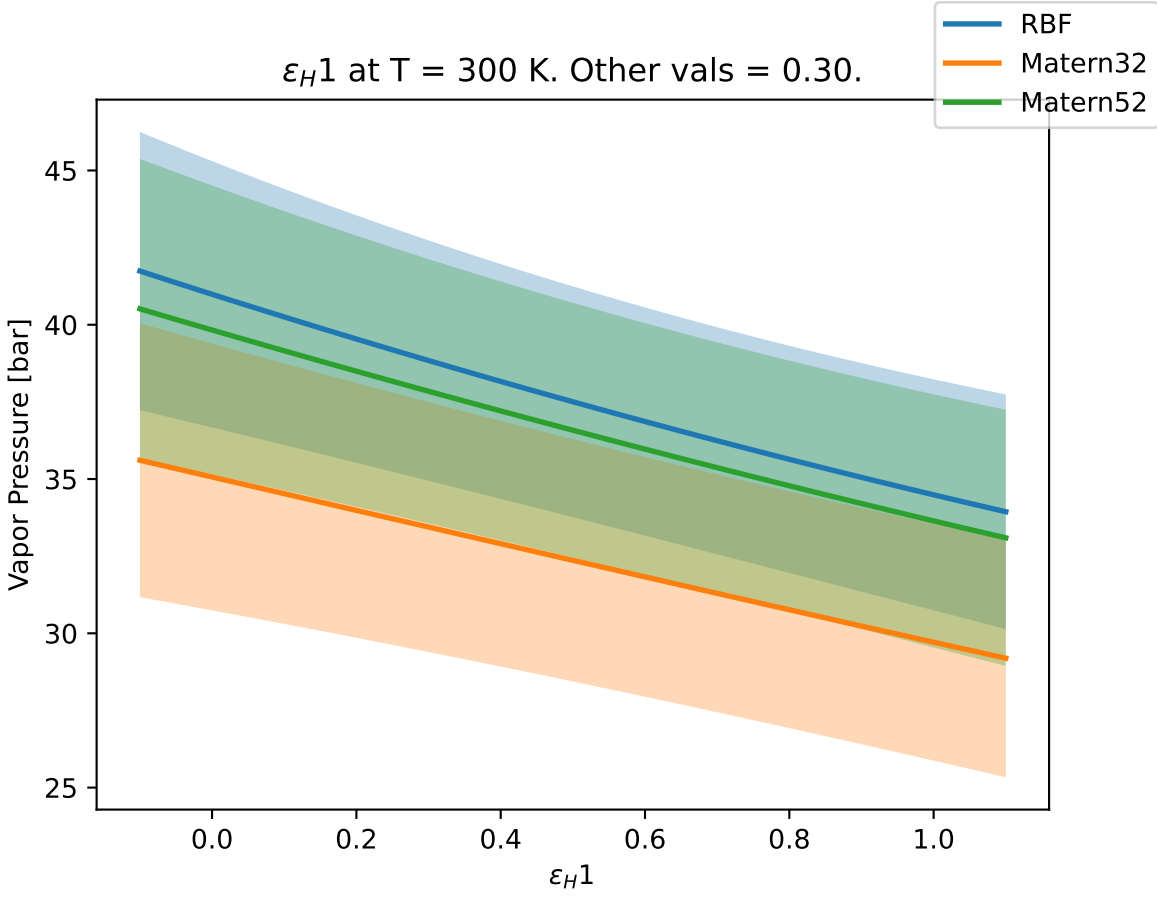

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

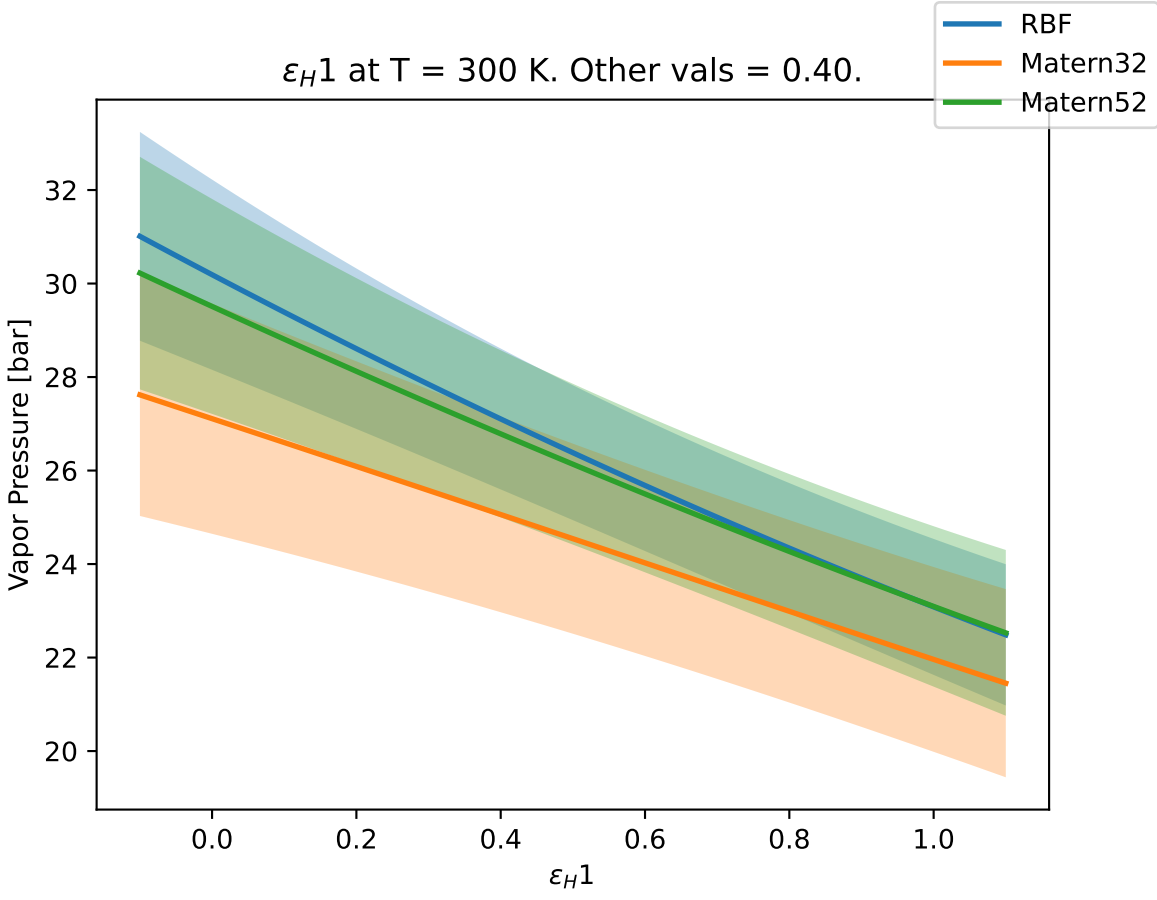

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
20
10
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

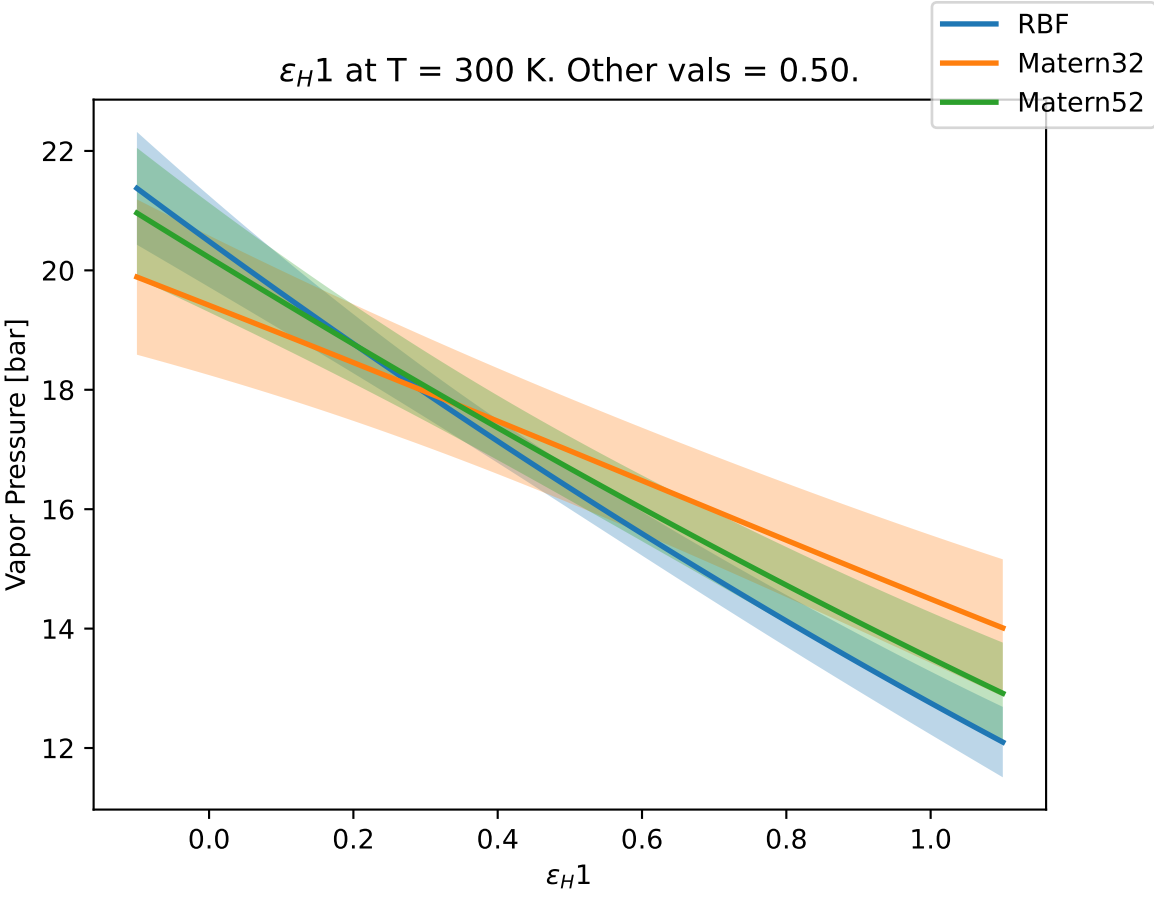

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.00.
Vapor Pressure [bar]
90
80
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

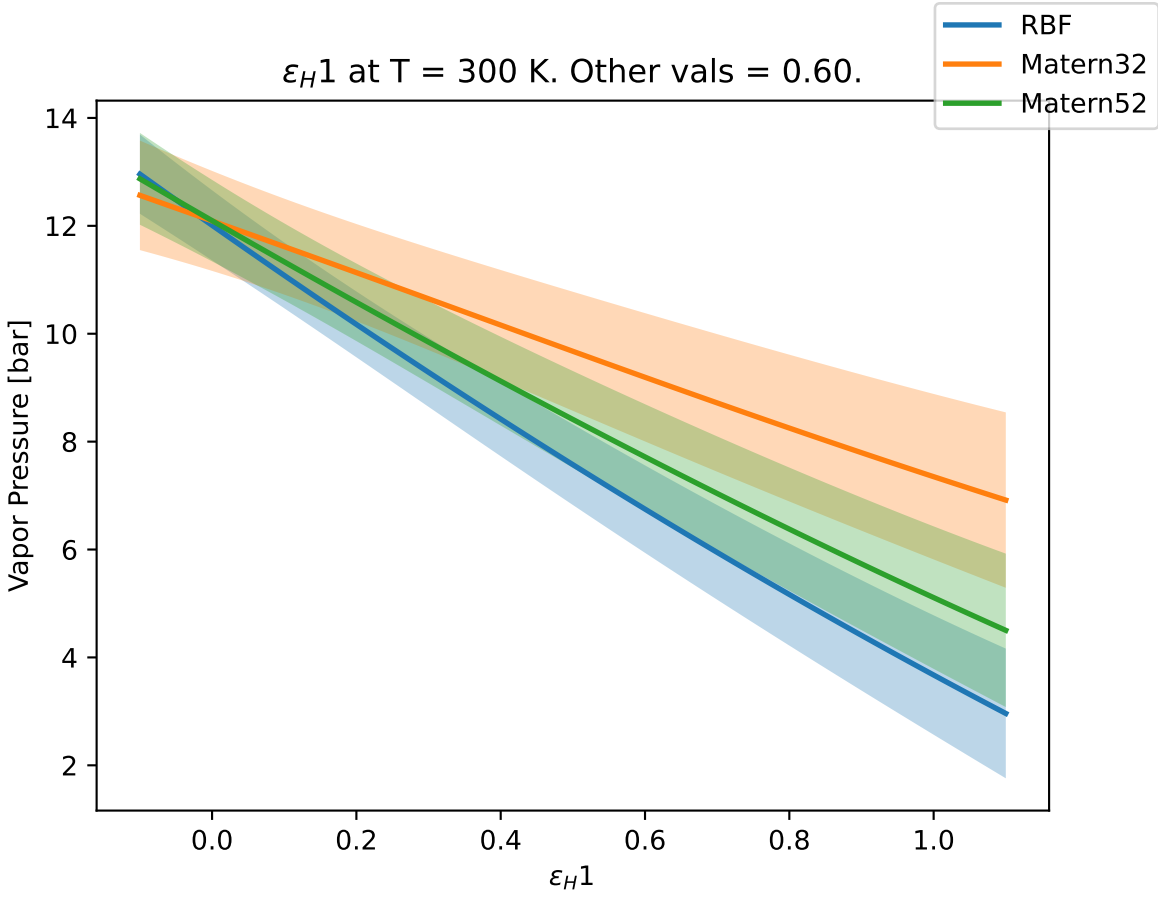

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.10.
Vapor Pressure [bar]
70
60
50
40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

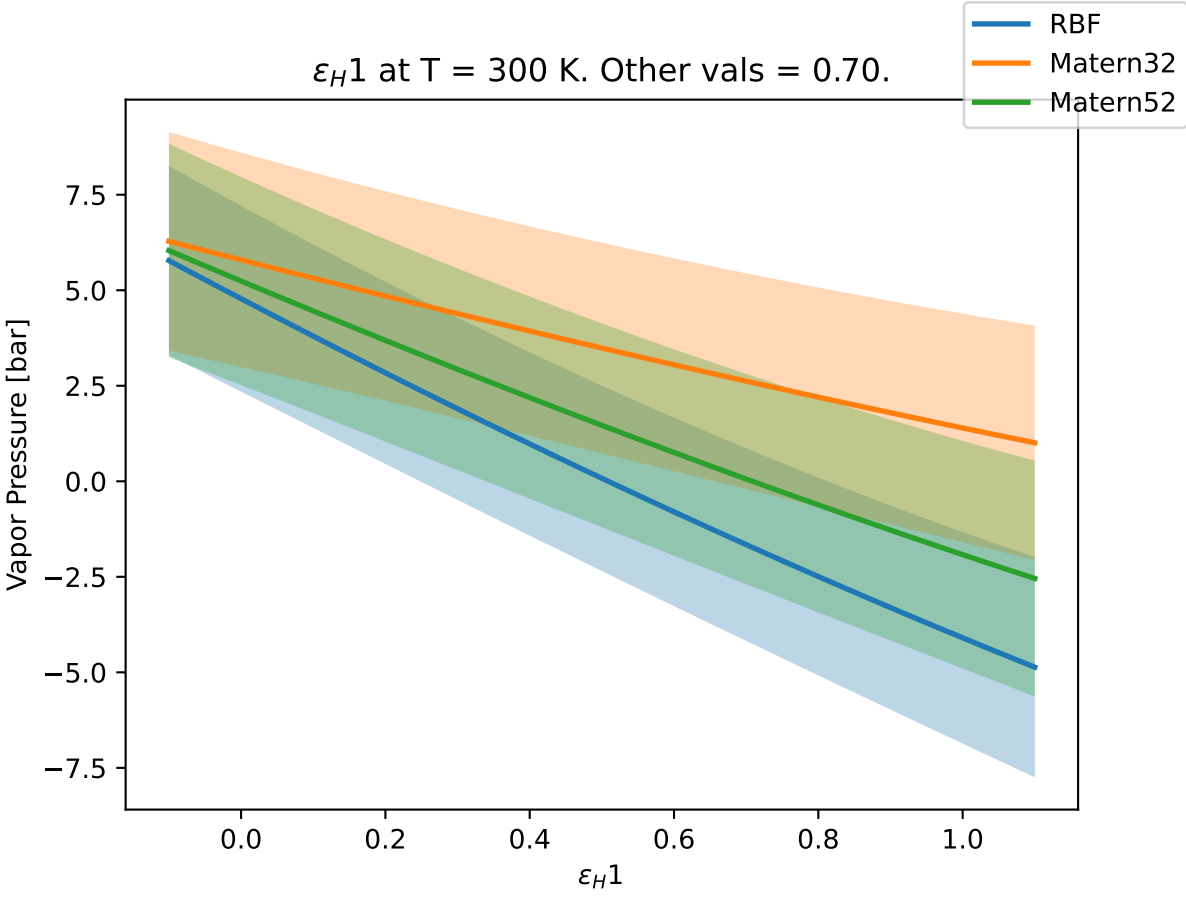

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.20.
Vapor Pressure [bar]
60
55
50
45
40
35
30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

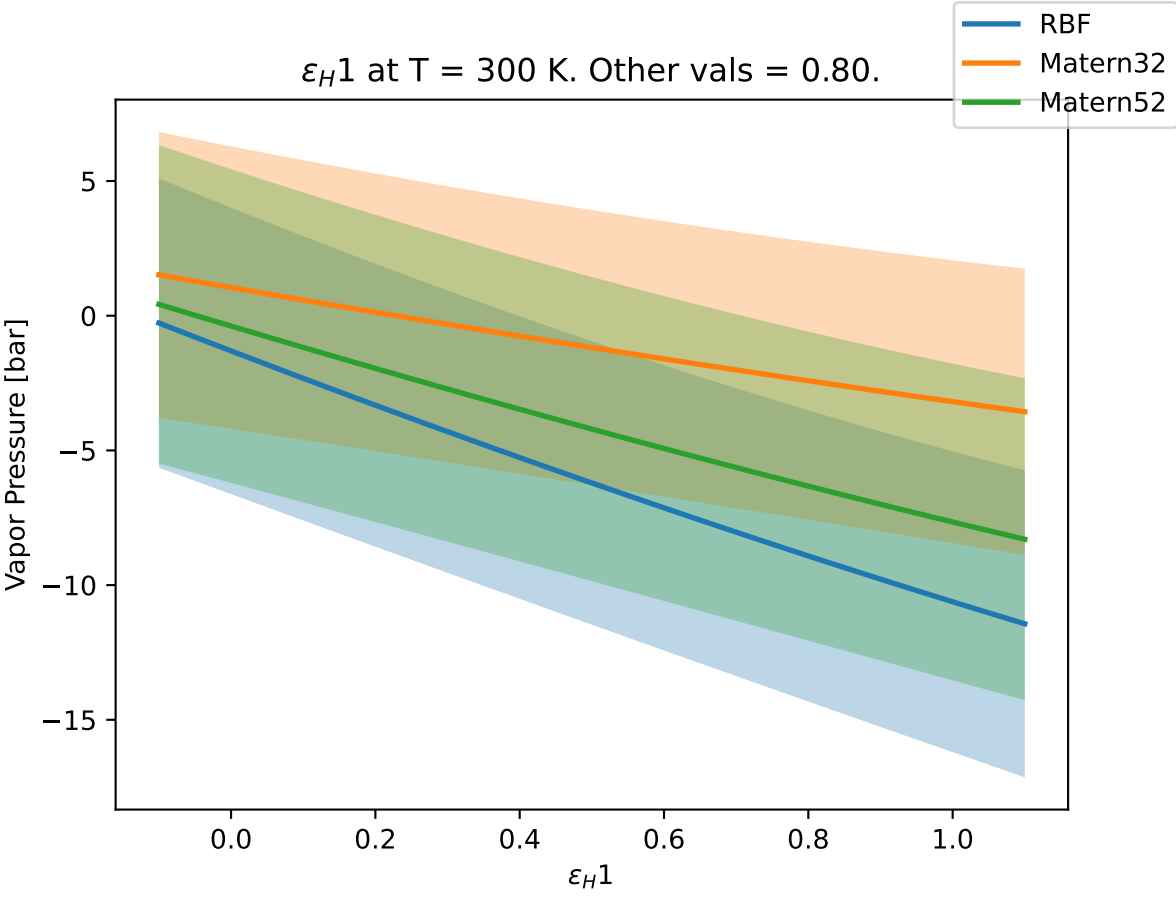

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.30.
Vapor Pressure [bar]
45
40
35
30
25
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

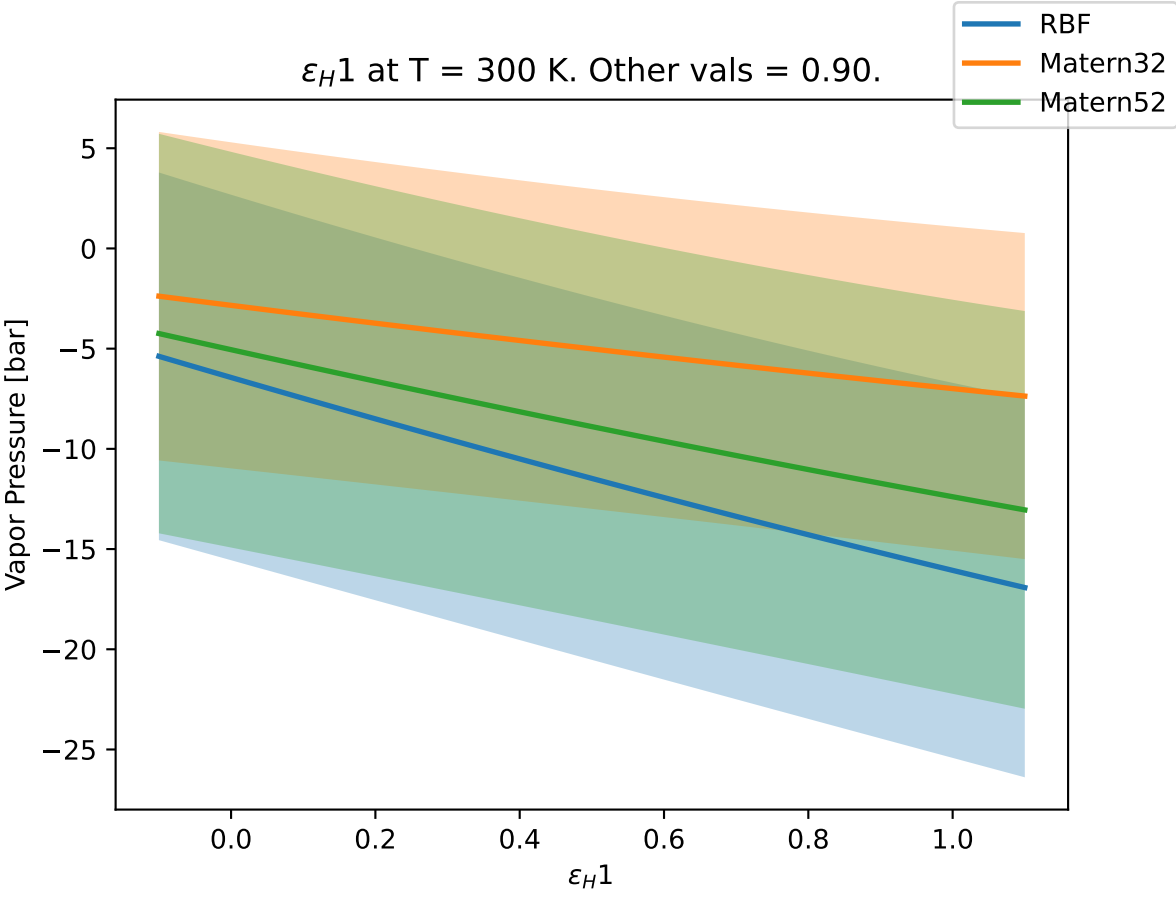

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.40.
Vapor Pressure [bar]
32
30
28
26
24
22
20
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

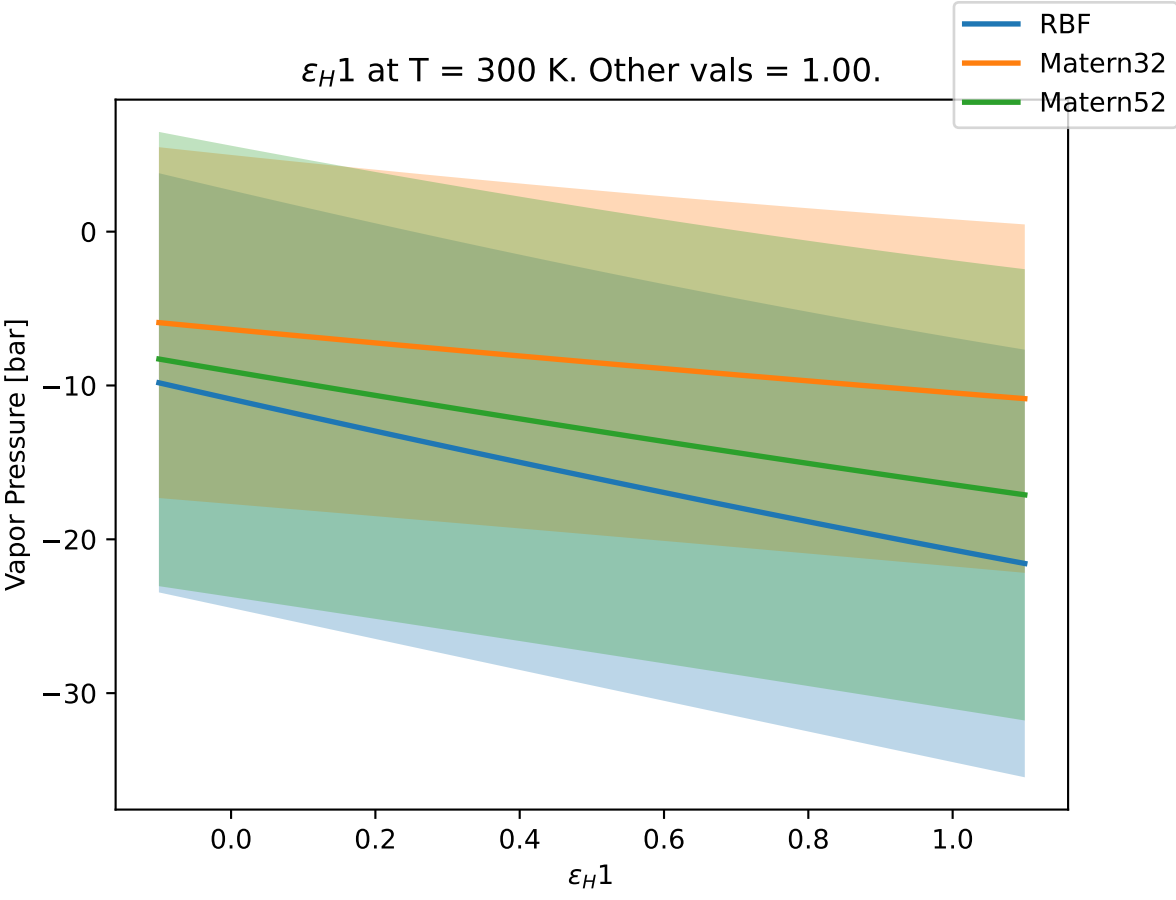

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.50.
Vapor Pressure [bar]
22
20
18
16
14
12
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

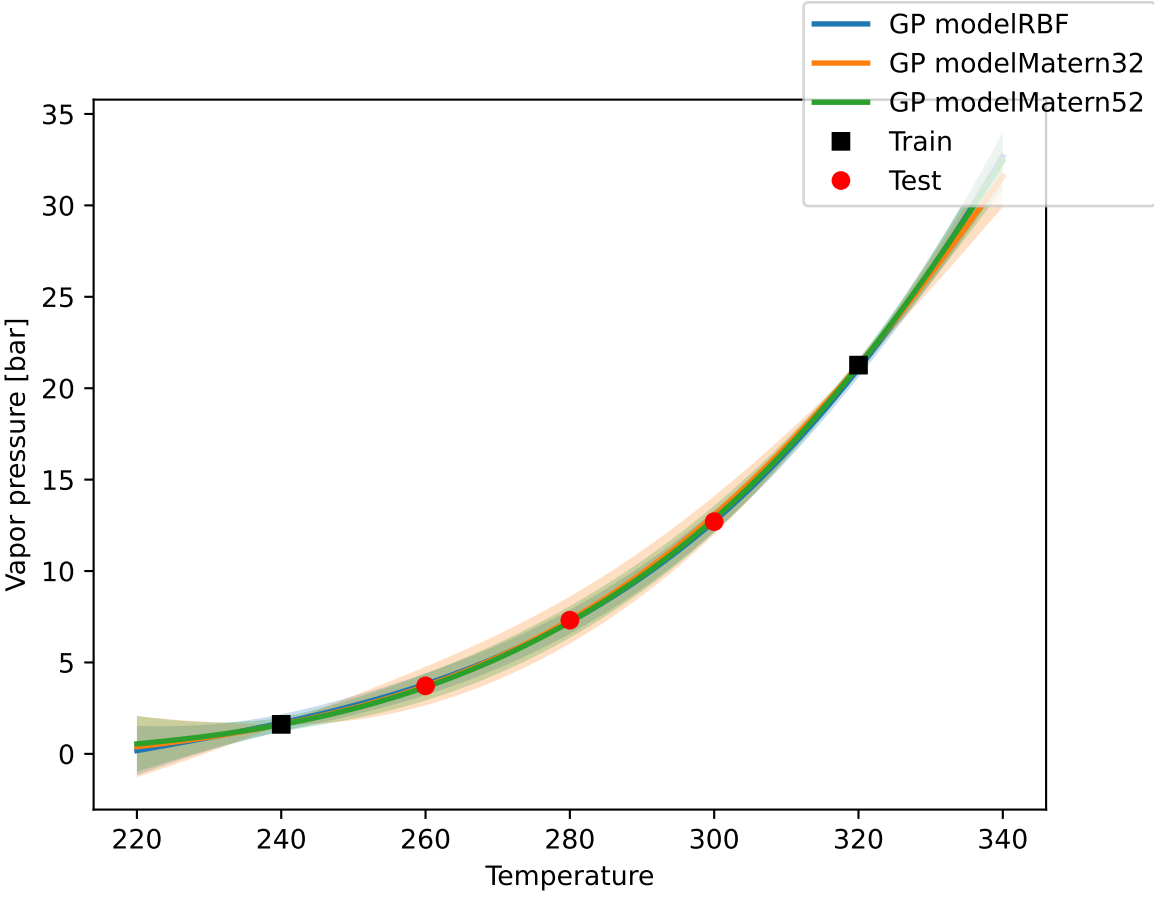

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.60.
Vapor Pressure [bar]
14
12
10
8
6
4
2
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

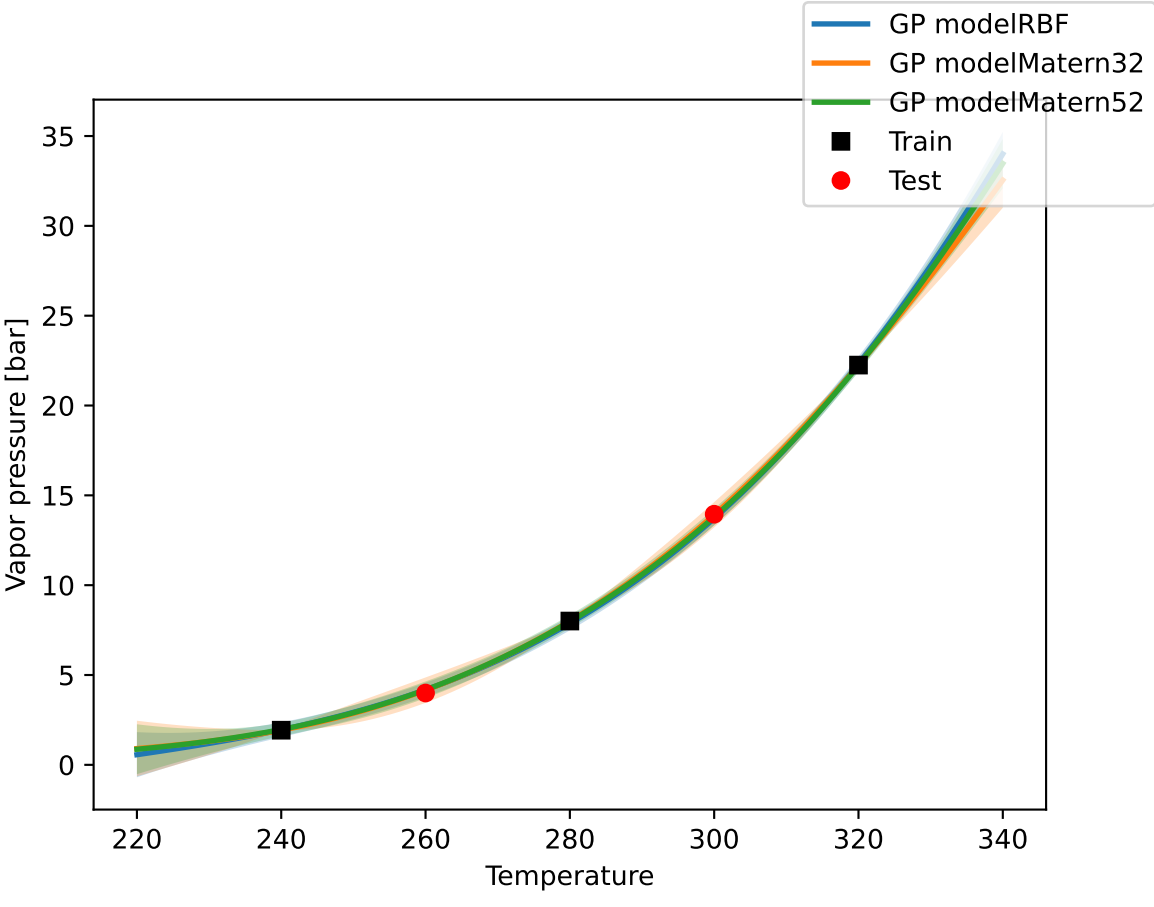

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.70.
Vapor Pressure [bar]
7.5
5.0
2.5
0.0
−2.5
−5.0
−7.5
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.80.
Vapor Pressure [bar]
5
0
−5
−10
−15
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.90.
Vapor Pressure [bar]
5
0
−5
−10
−15
−20
−25
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 1.00.
Vapor Pressure [bar]
0
−10
−20
−30
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
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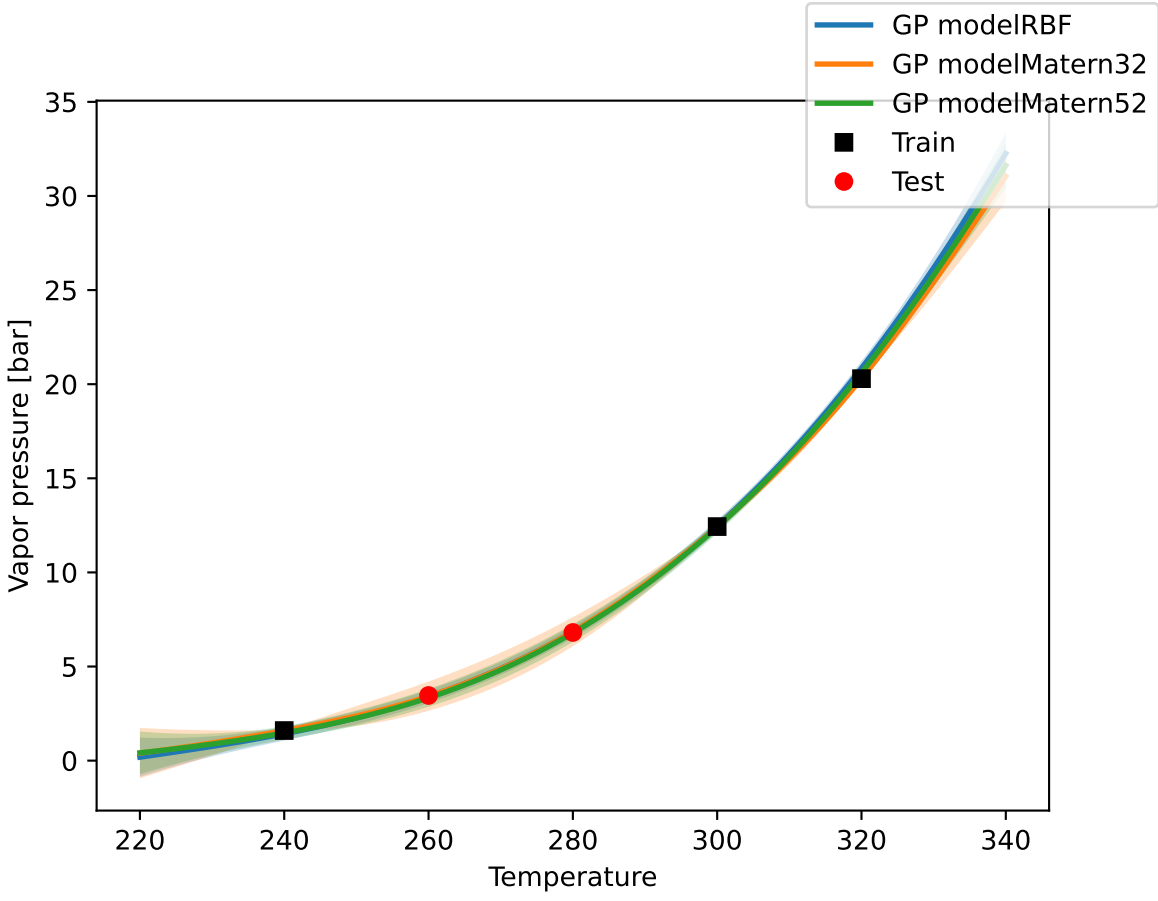
0
220
240
260
280
300
320
340


GP modelRBF
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
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0
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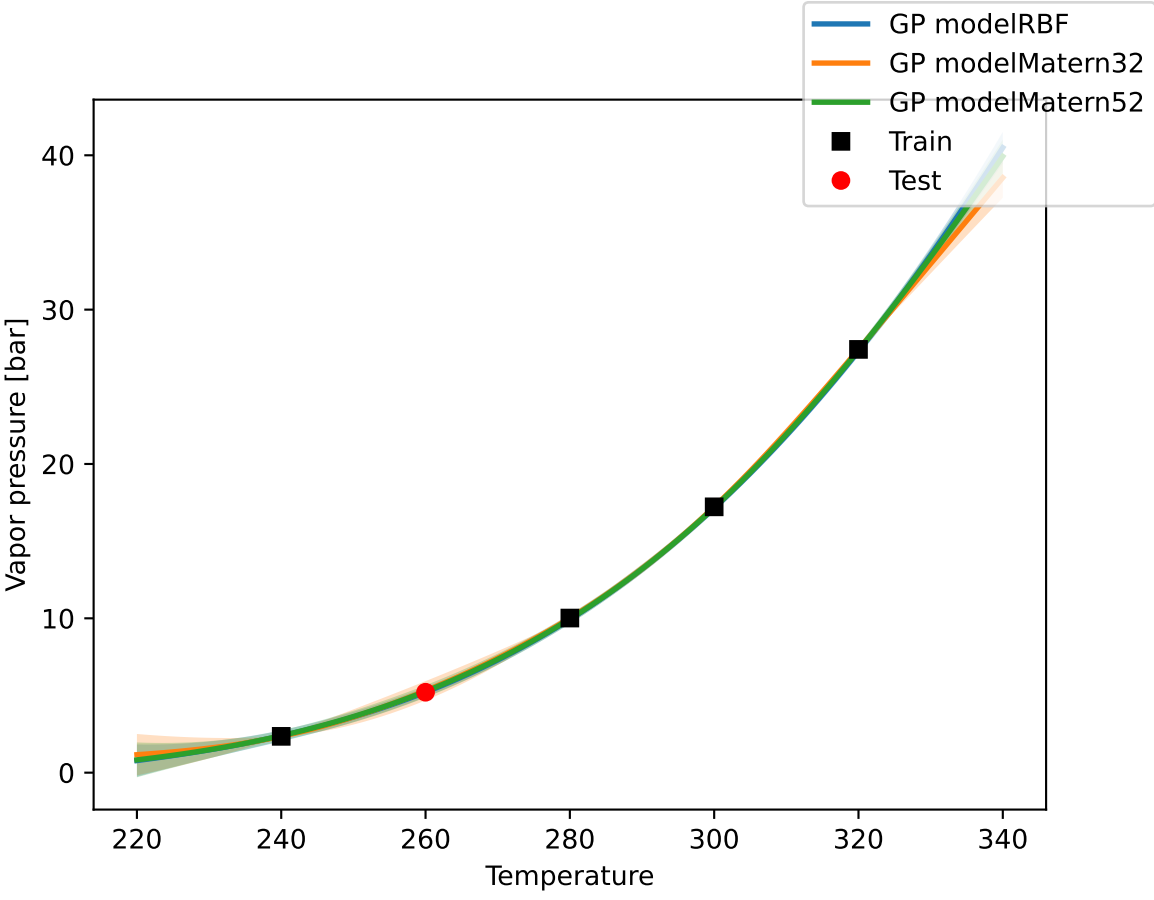
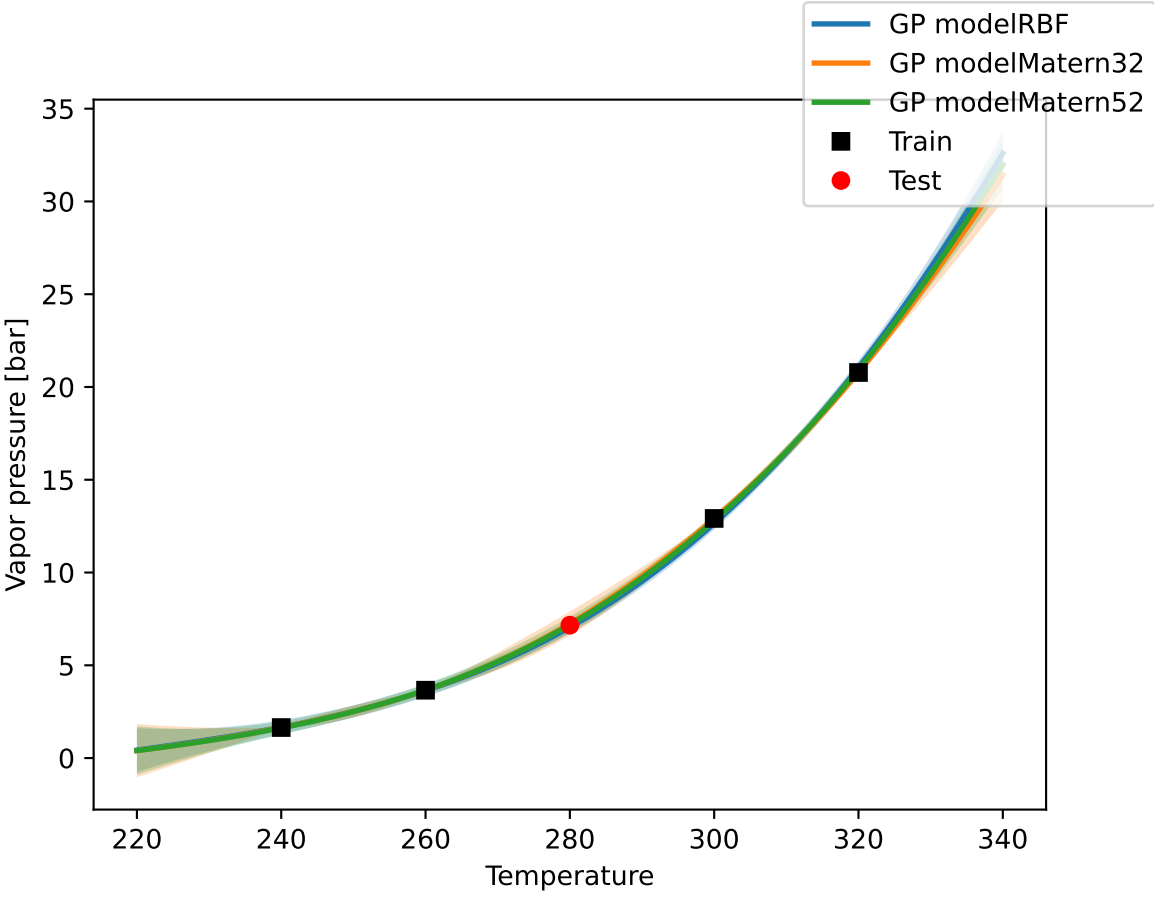
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
0
10
20
30
40
220
240
260
280
300
320
340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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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0
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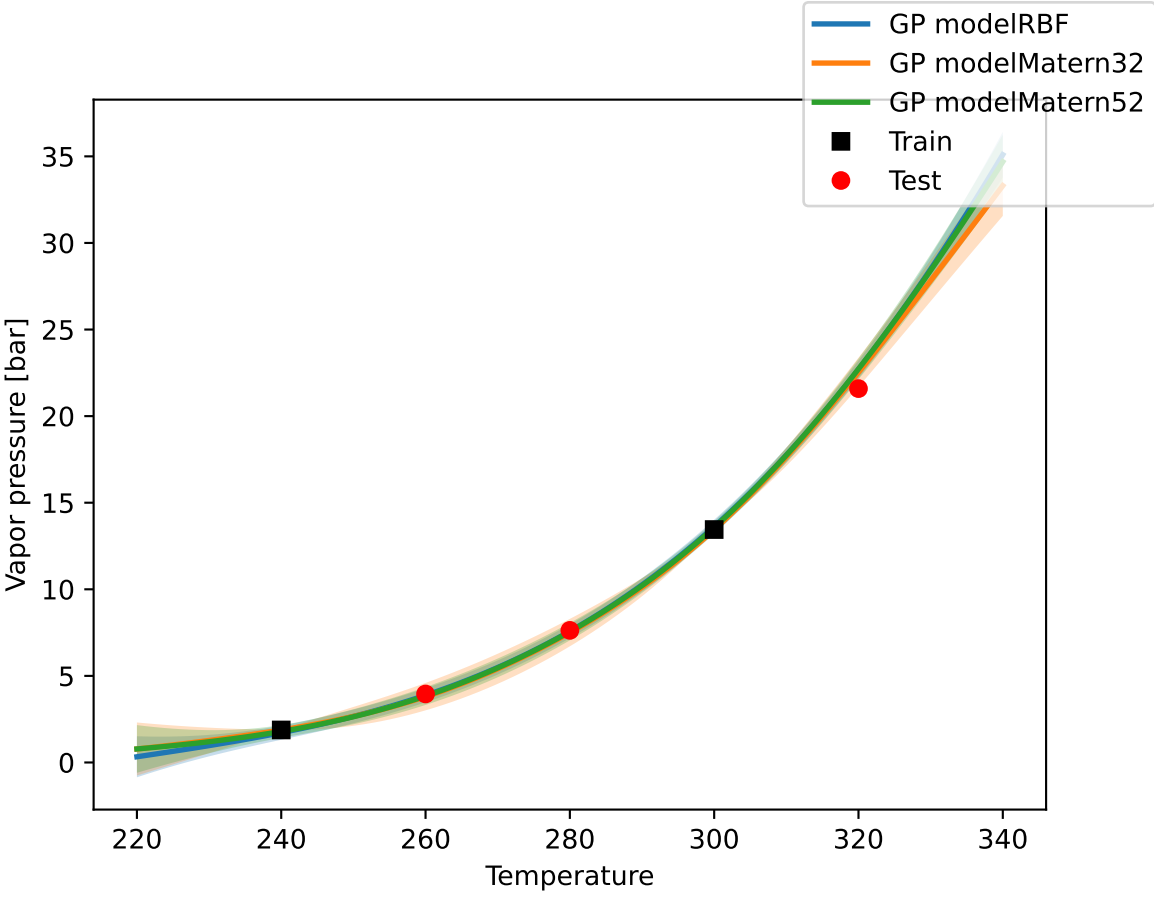
240
260
280
300
320
340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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
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0
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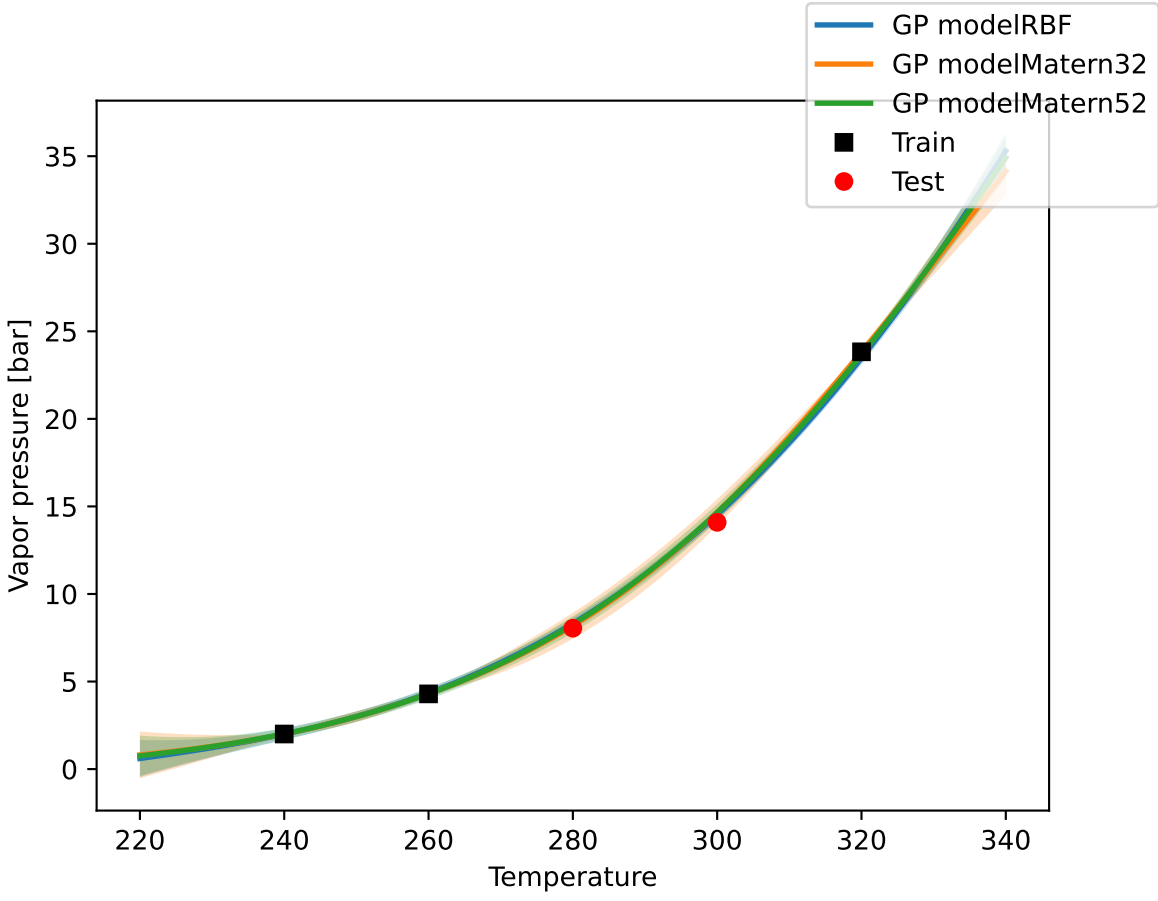
240
260
280
300
320
340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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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0
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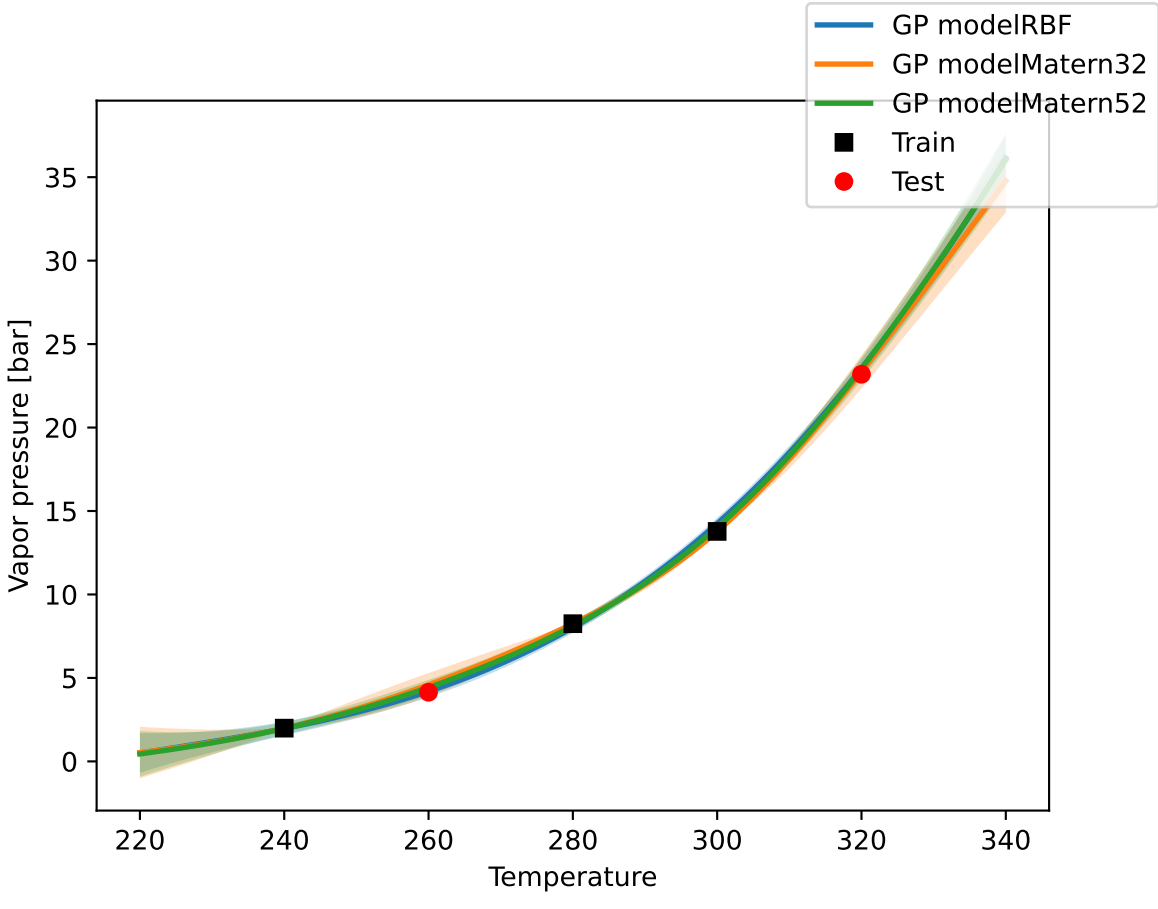
240
260
280
300
320
340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Train
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Vapor pressure [bar]
Temperature
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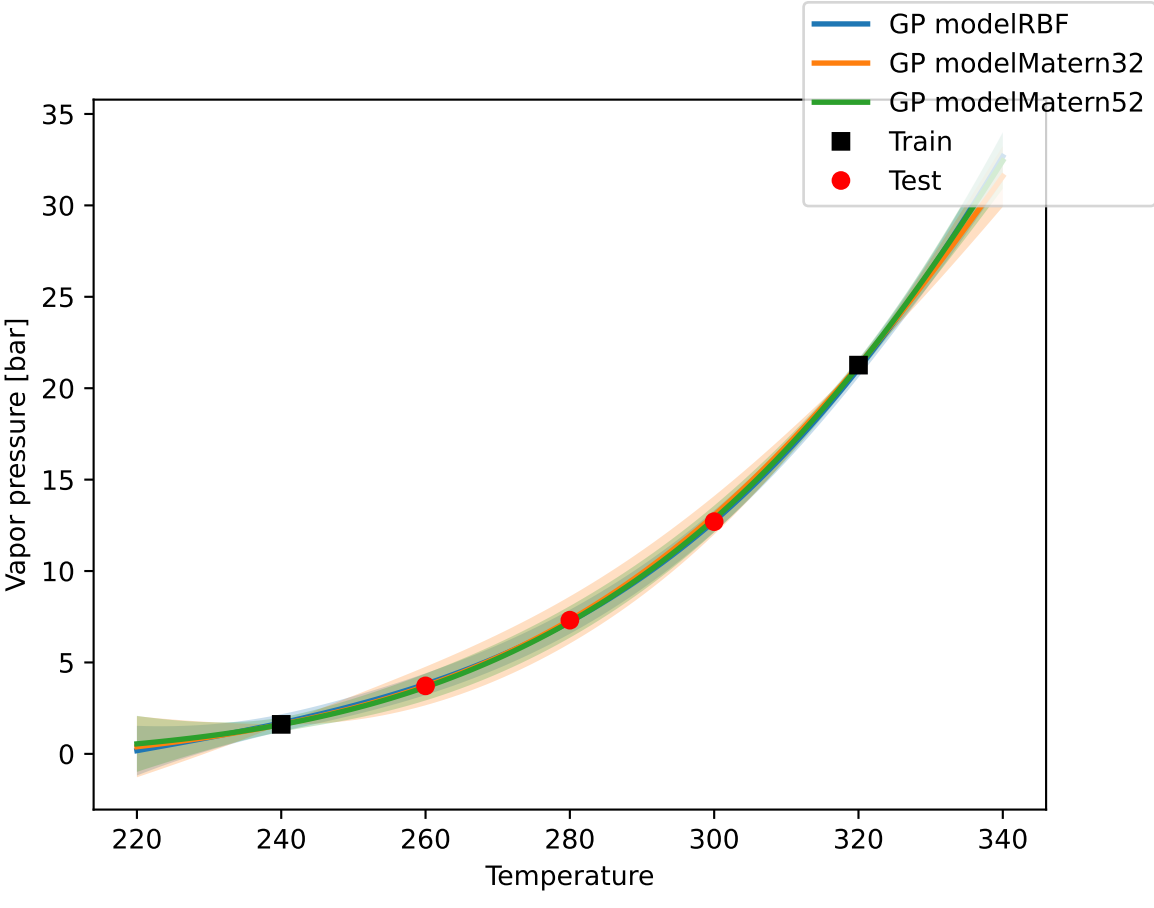
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Vapor pressure [bar]
Temperature
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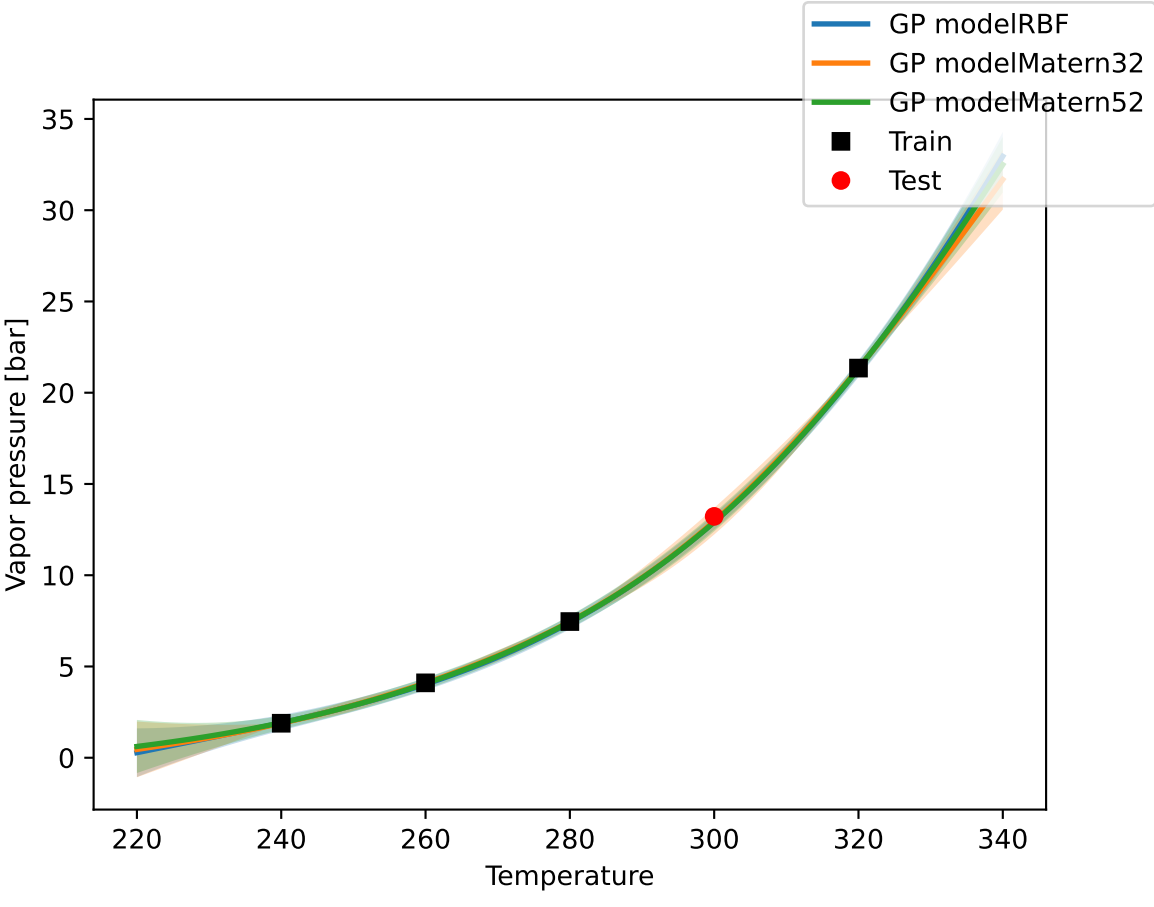
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Train
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Vapor pressure [bar]
Temperature
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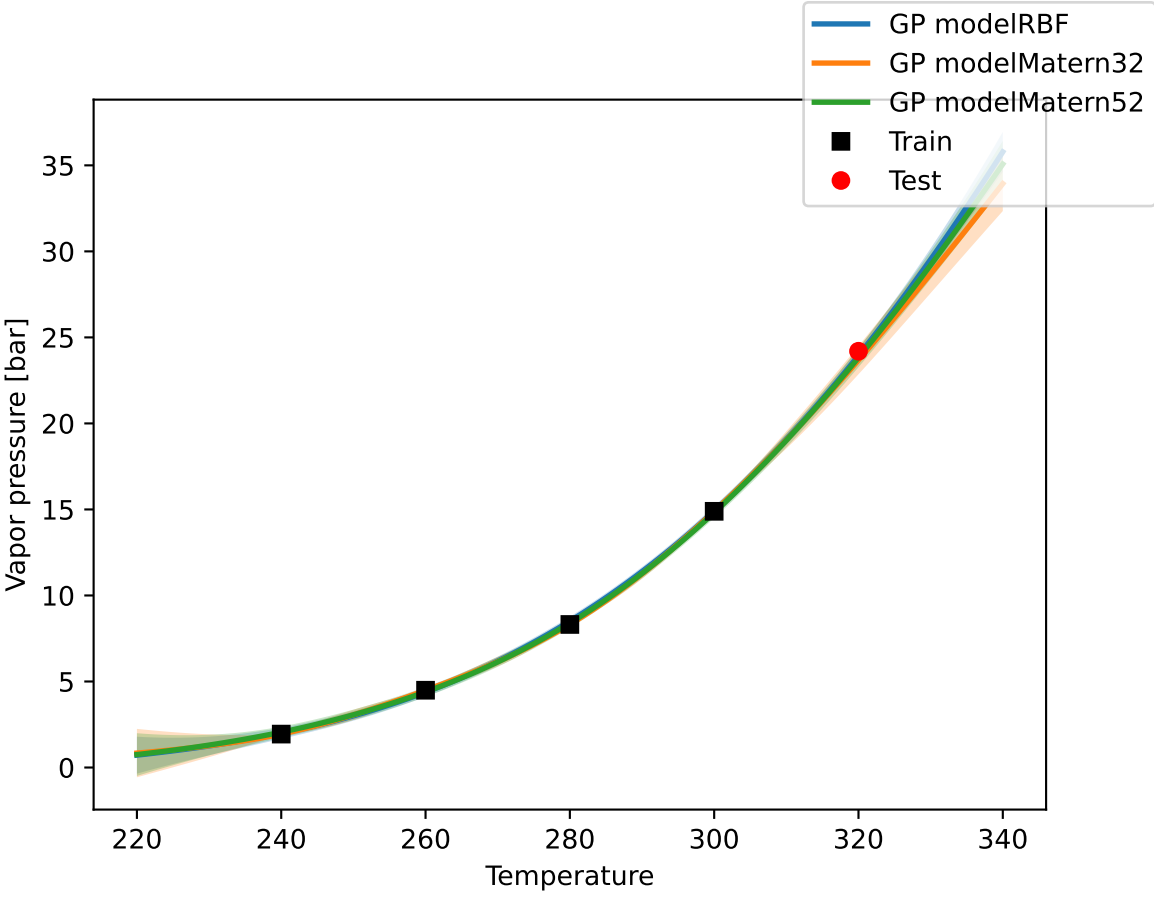
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GP modelMatern52
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Vapor pressure [bar]
Temperature
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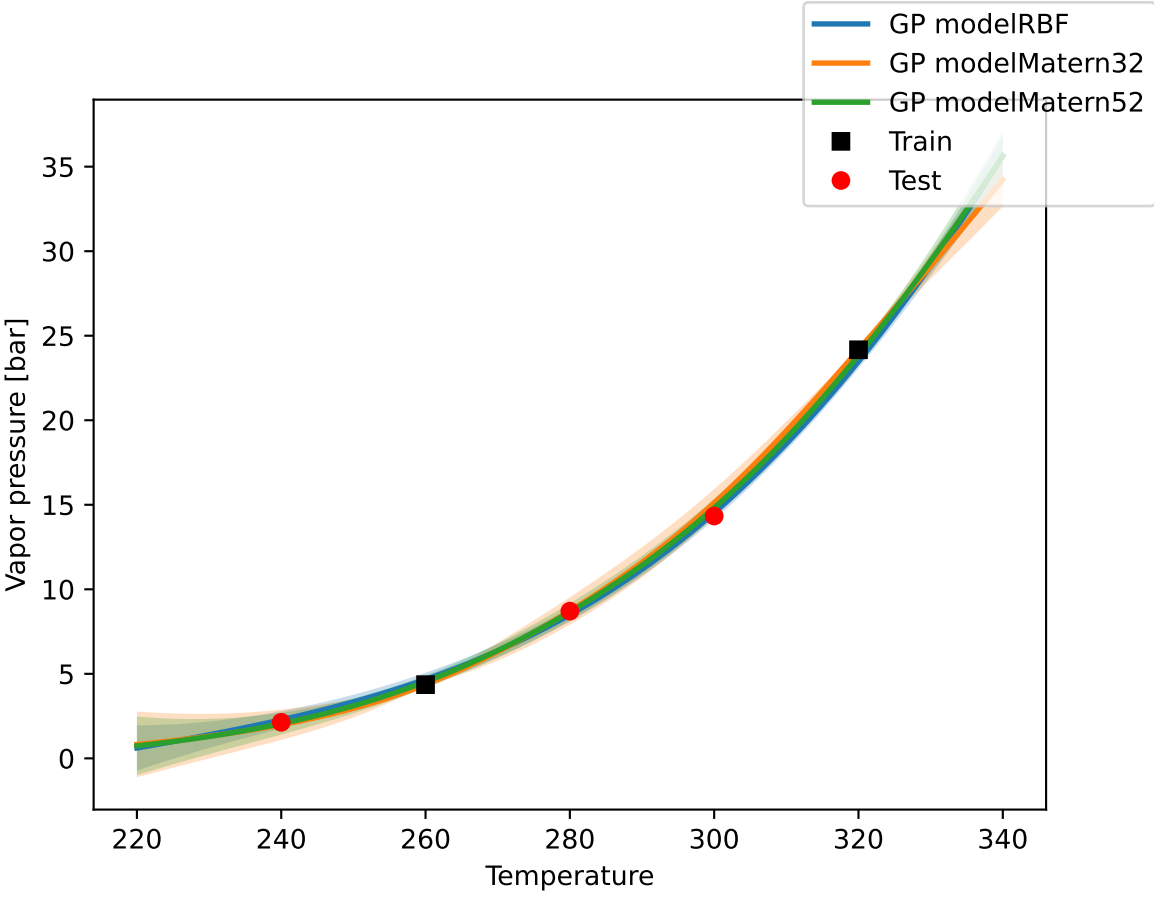
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GP modelMatern52
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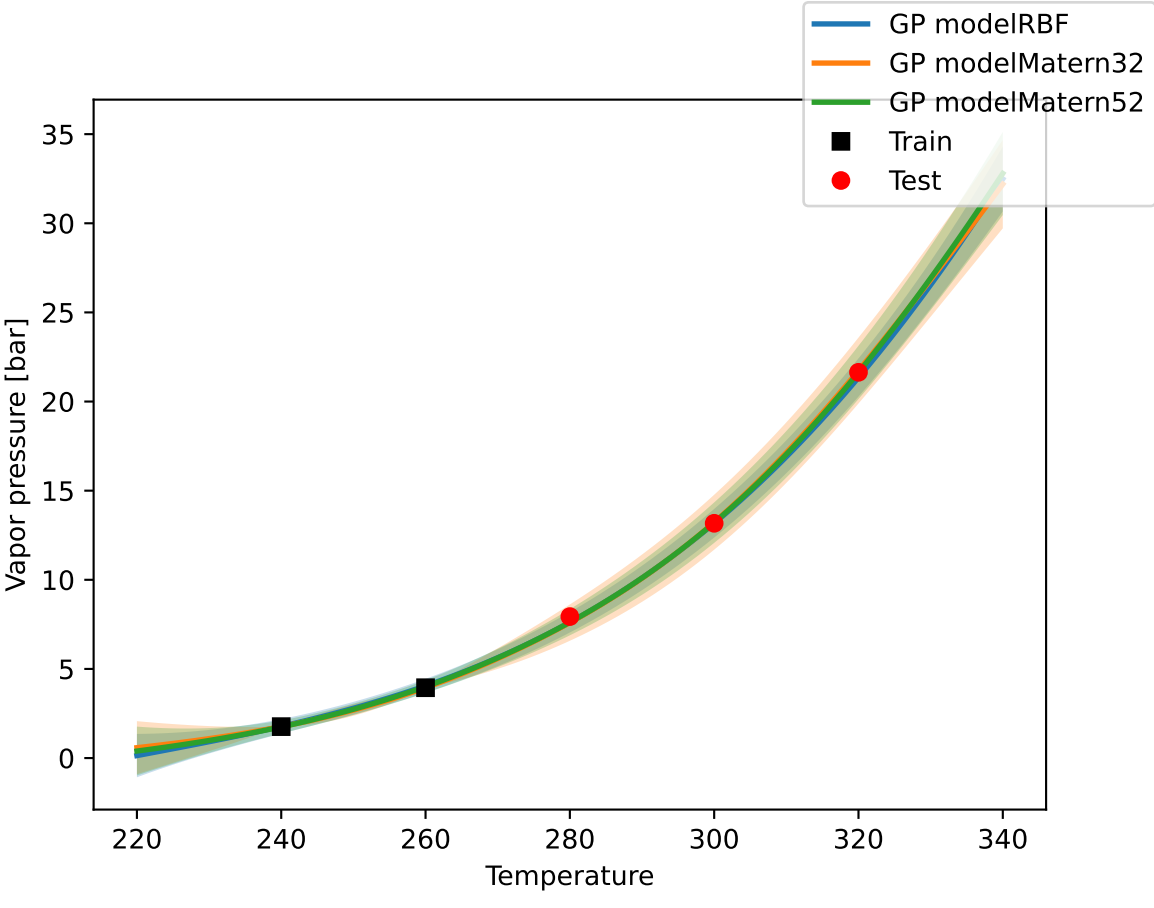
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GP modelMatern52
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Vapor pressure [bar]
Temperature
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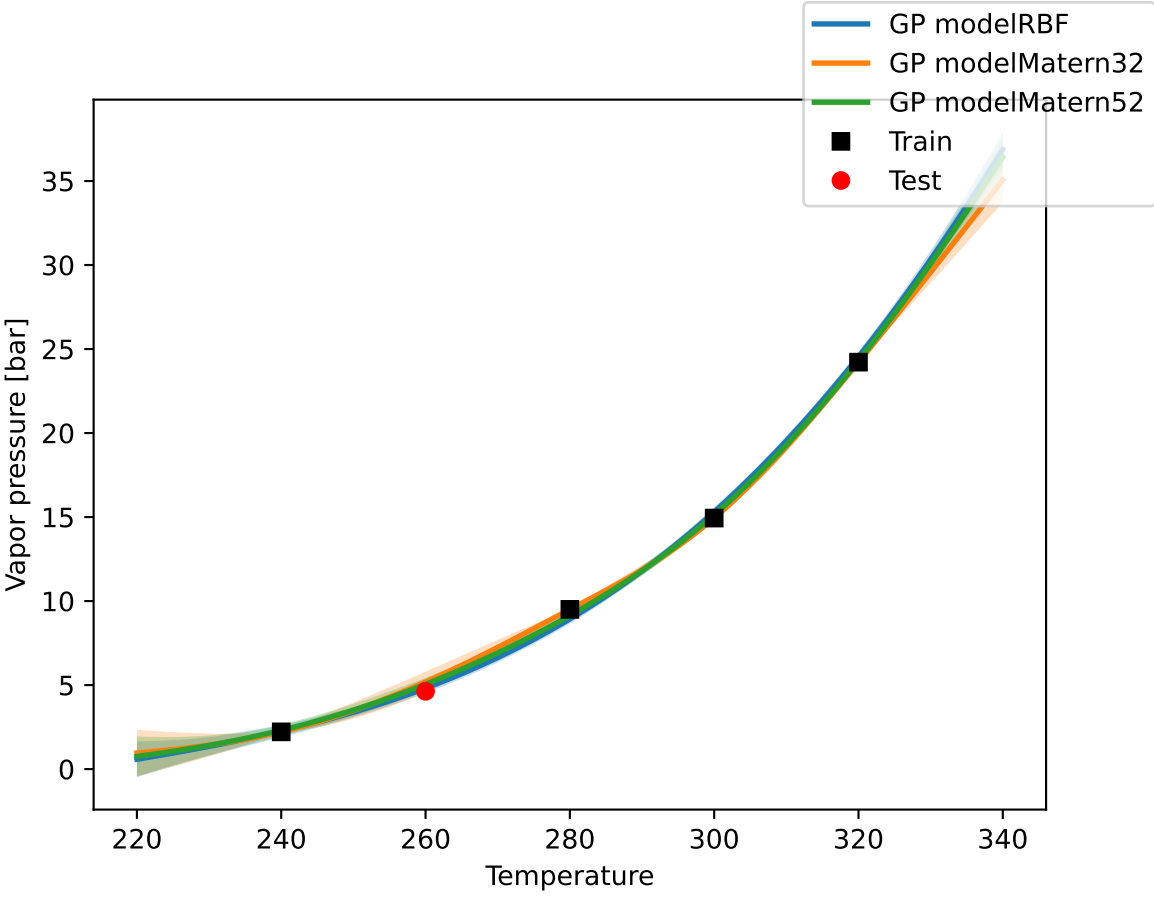
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GP modelMatern52
Train
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Vapor pressure [bar]
Temperature
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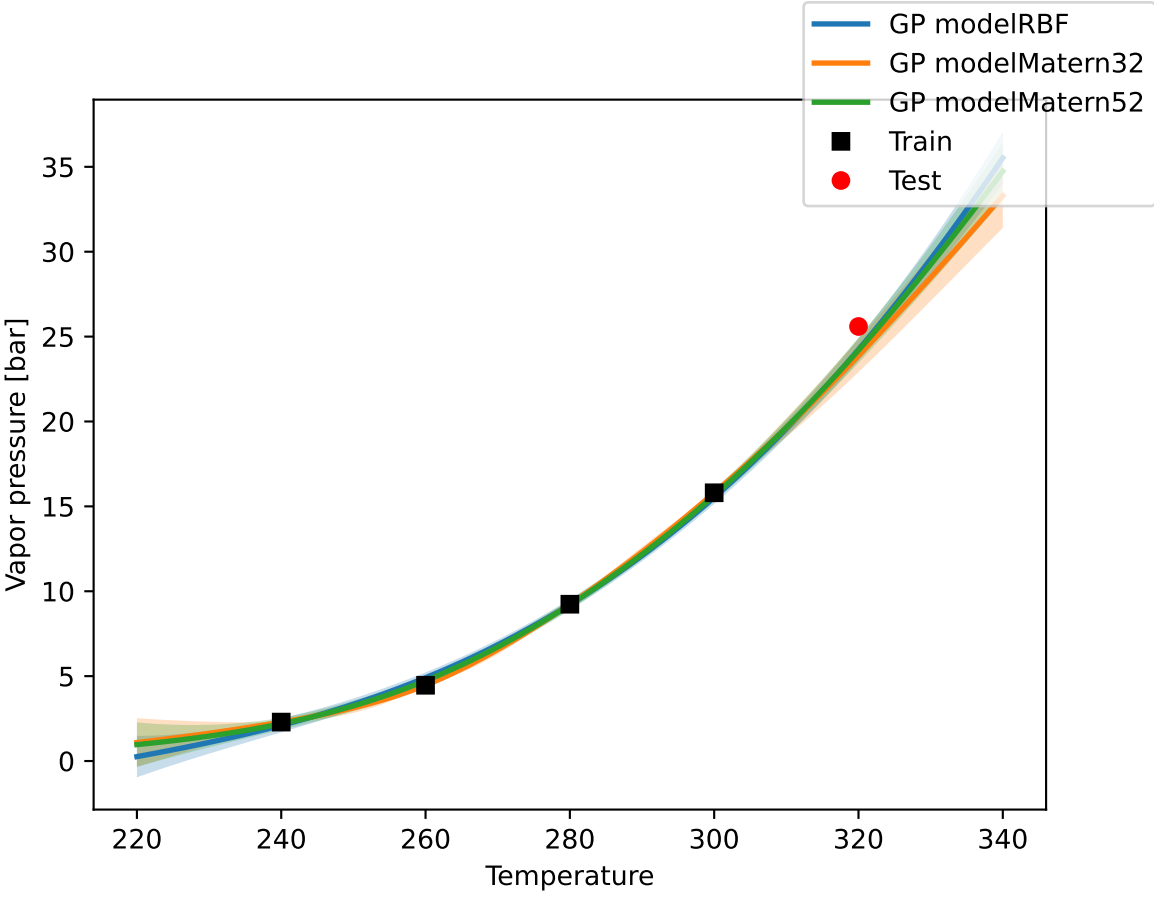
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GP modelMatern52
Train
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Vapor pressure [bar]
Temperature
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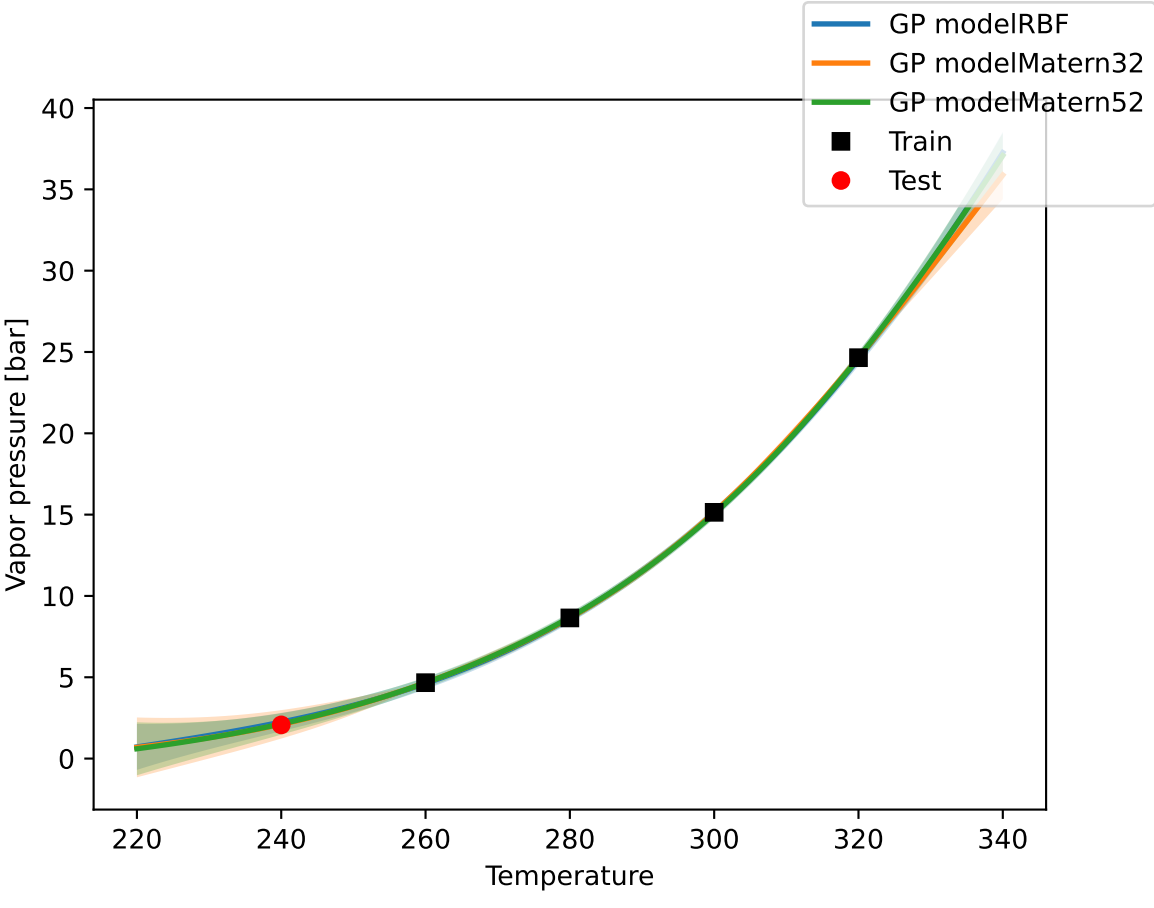
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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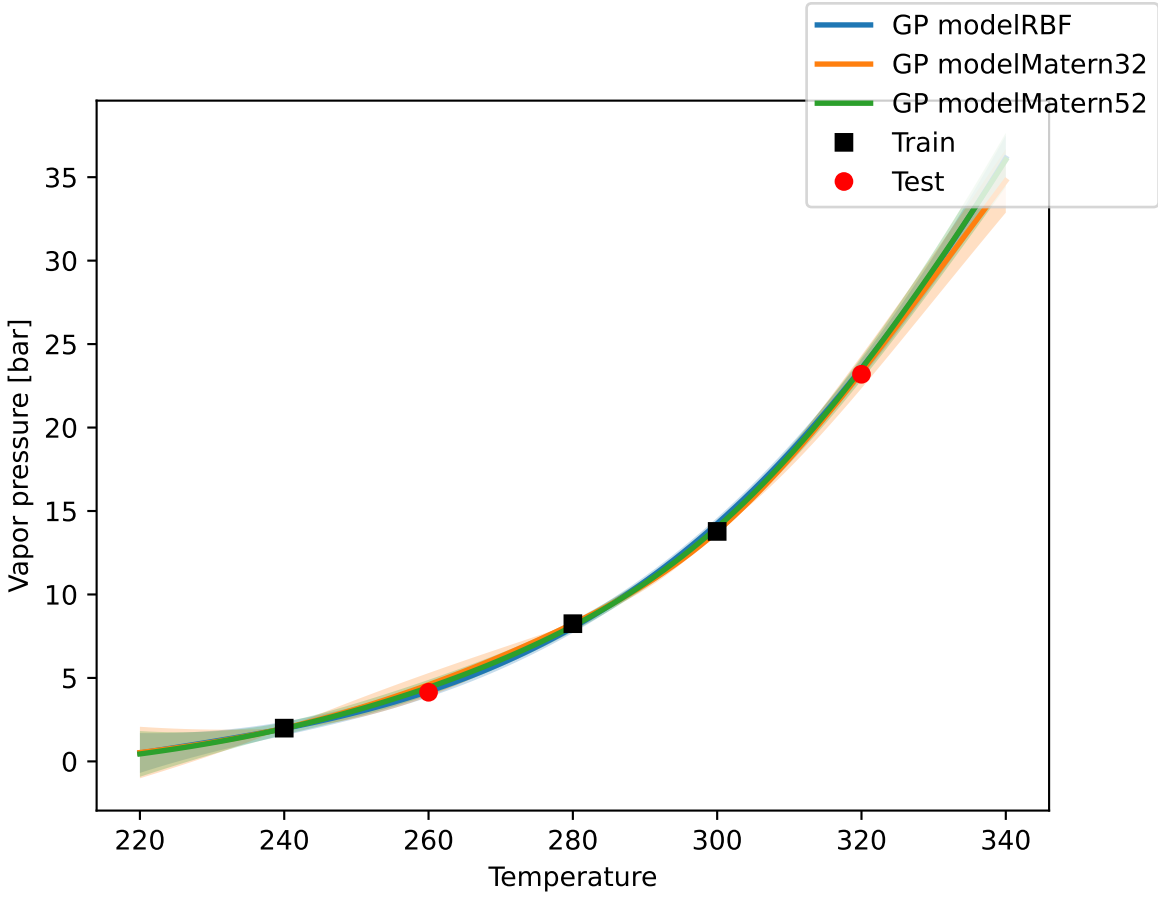
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Vapor pressure [bar]
Temperature
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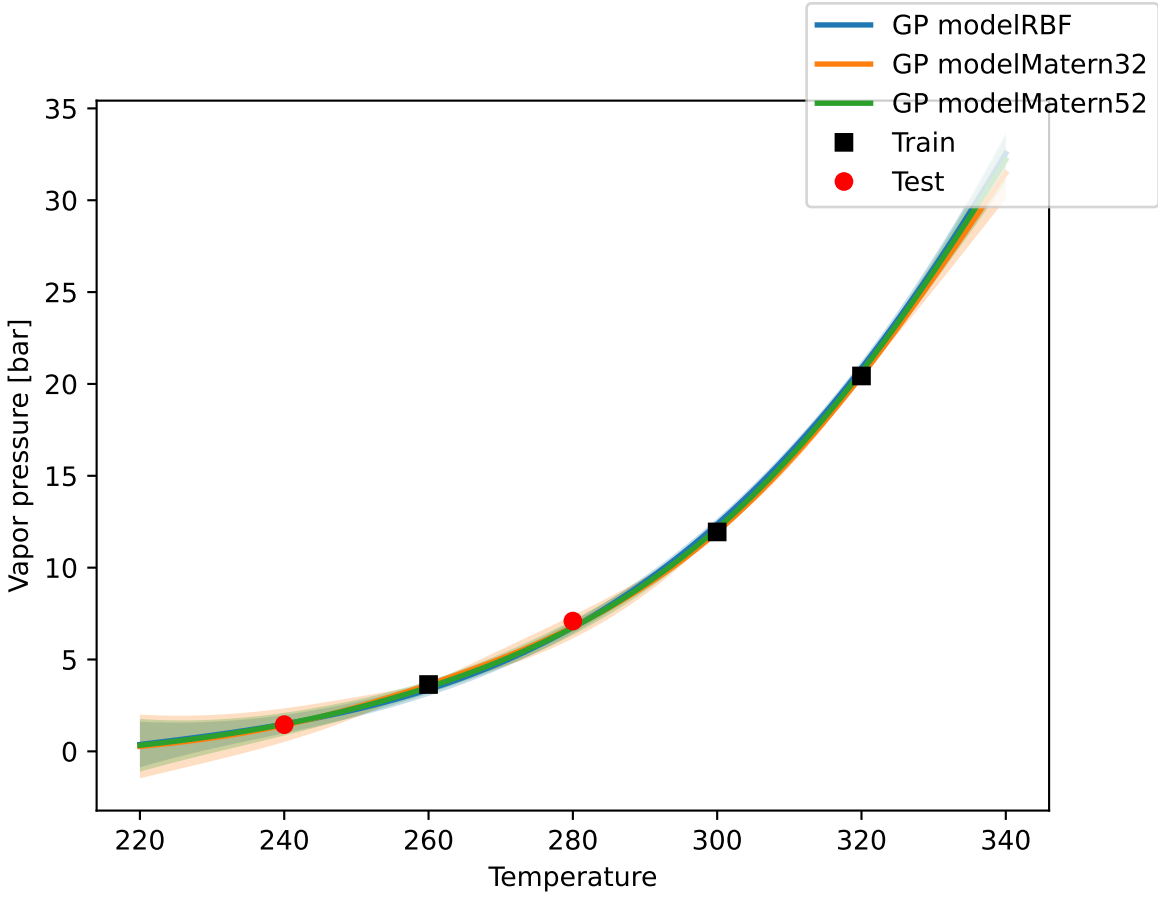
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GP modelMatern52
Train
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Vapor pressure [bar]
Temperature
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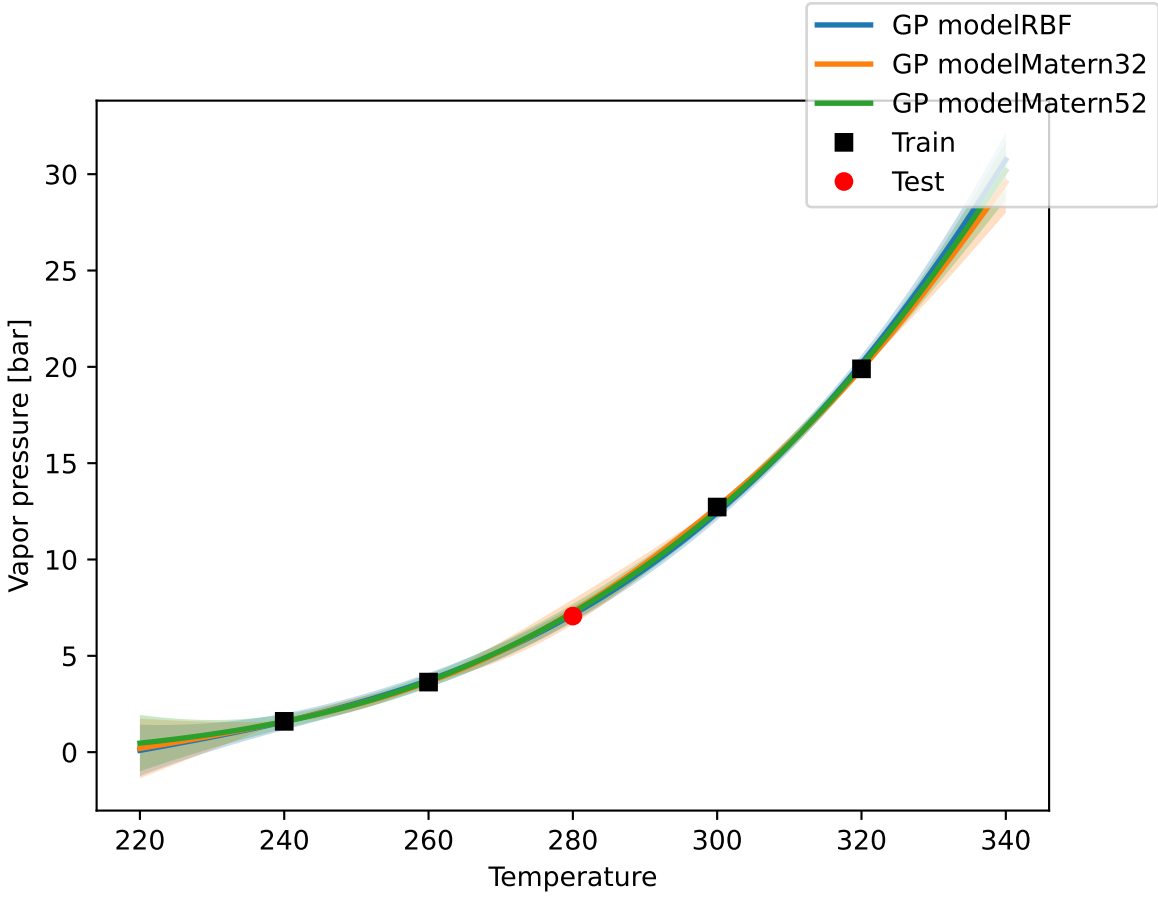
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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25
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320
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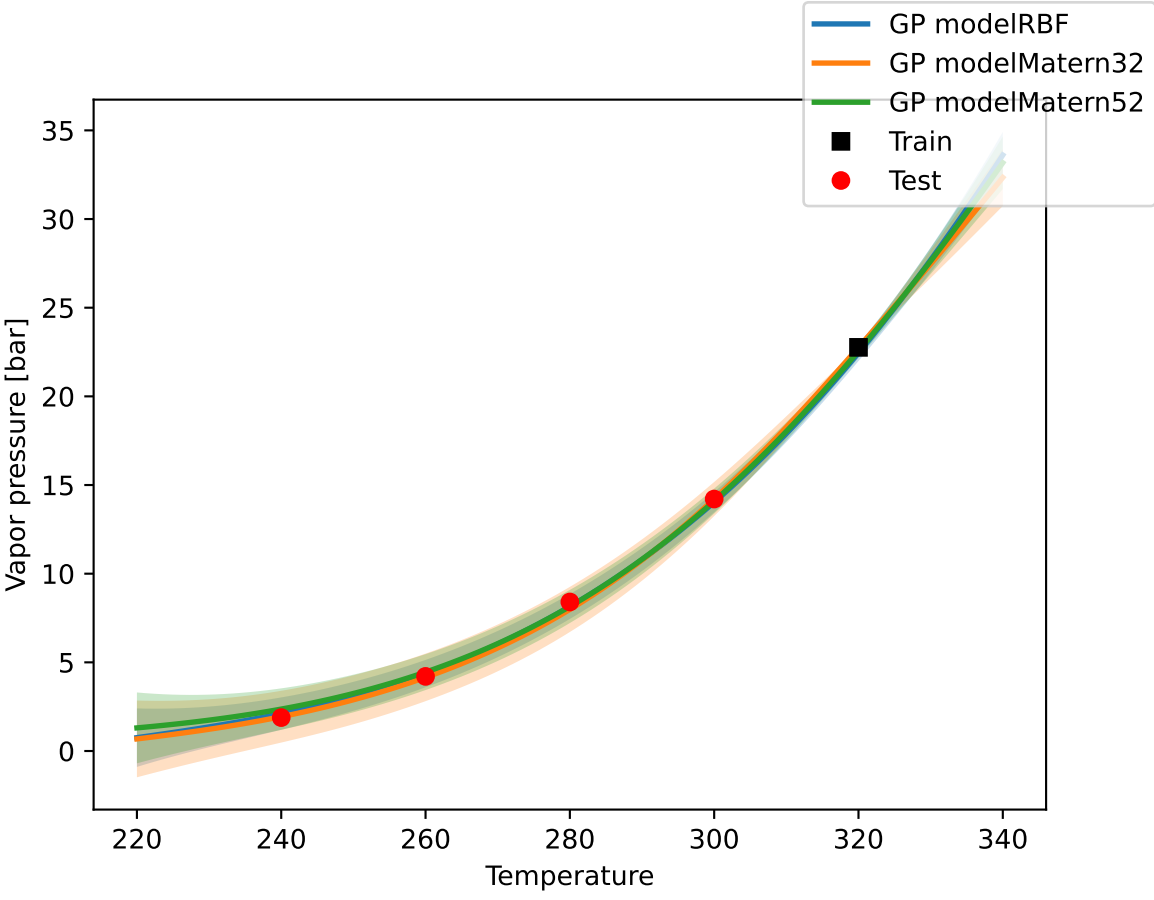
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
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300
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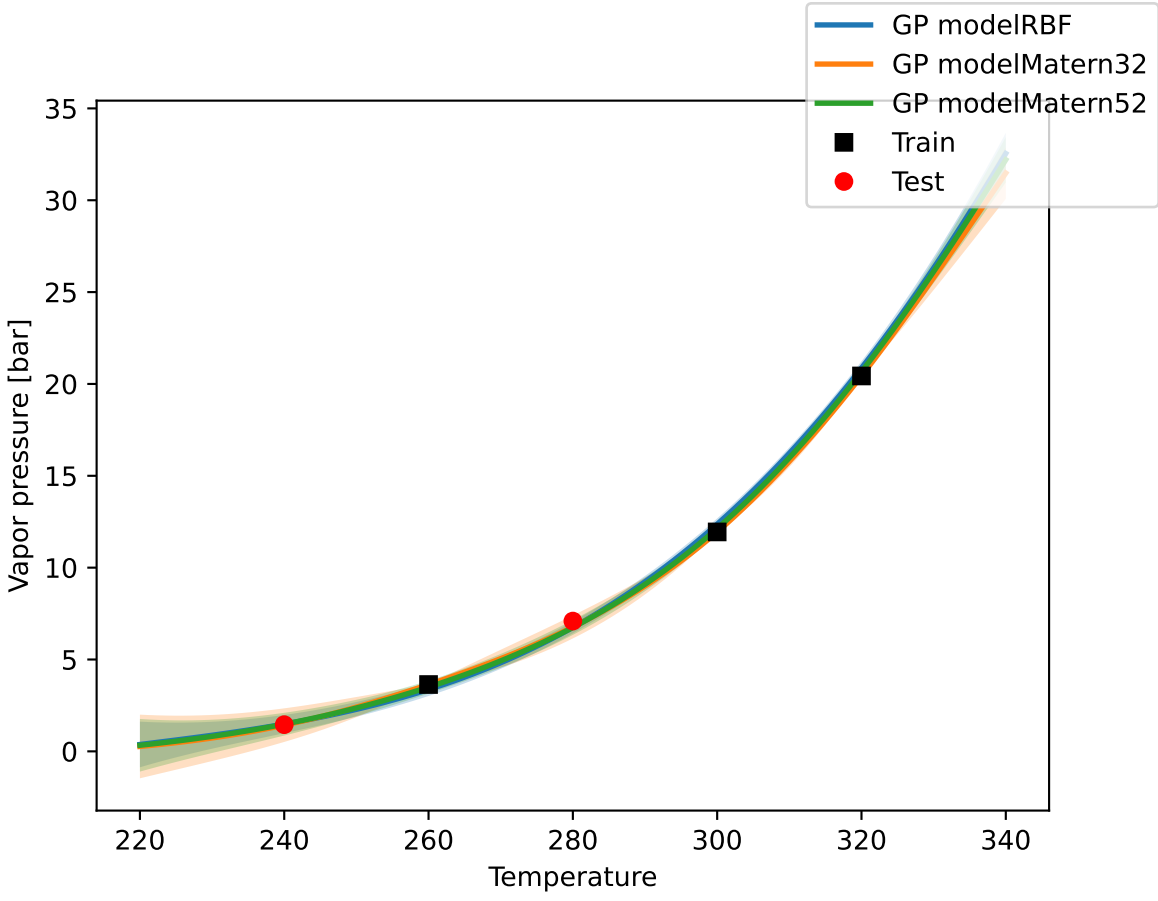
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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320
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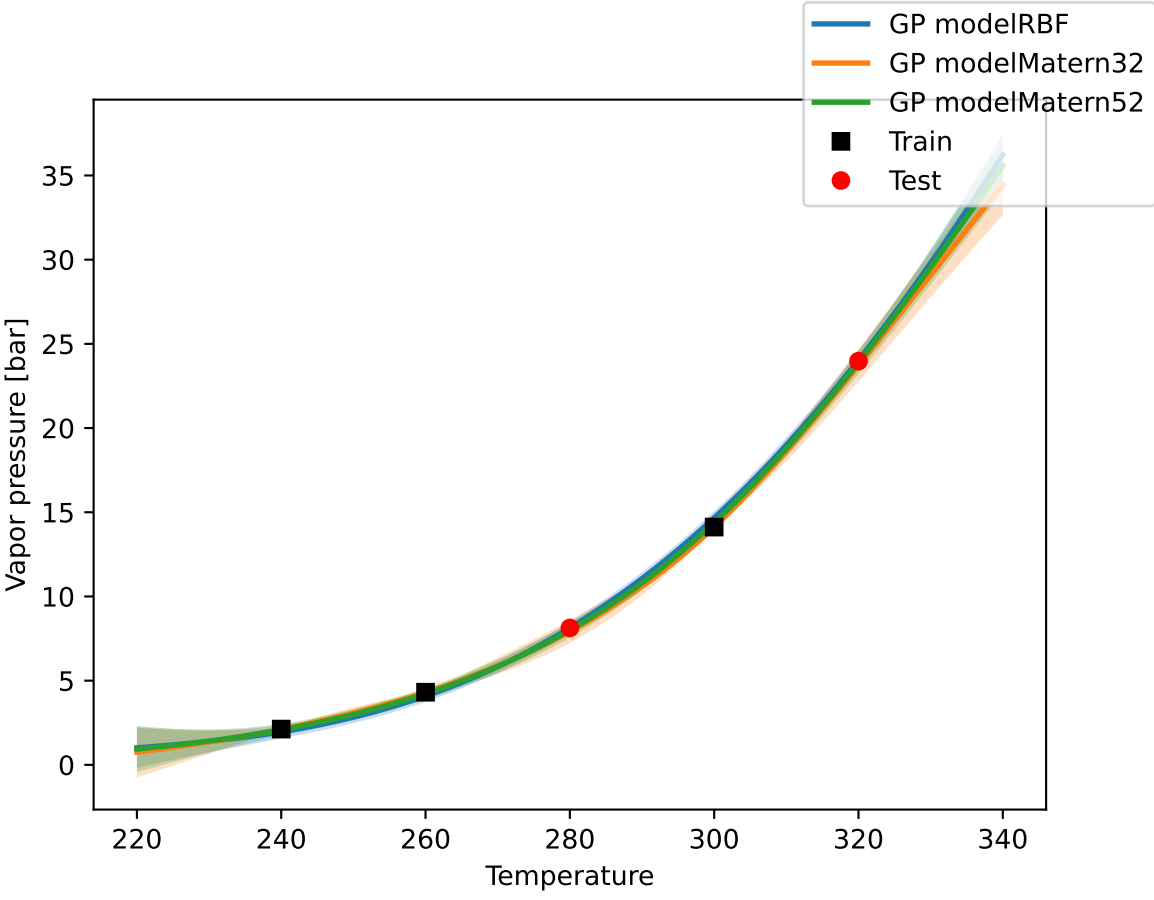
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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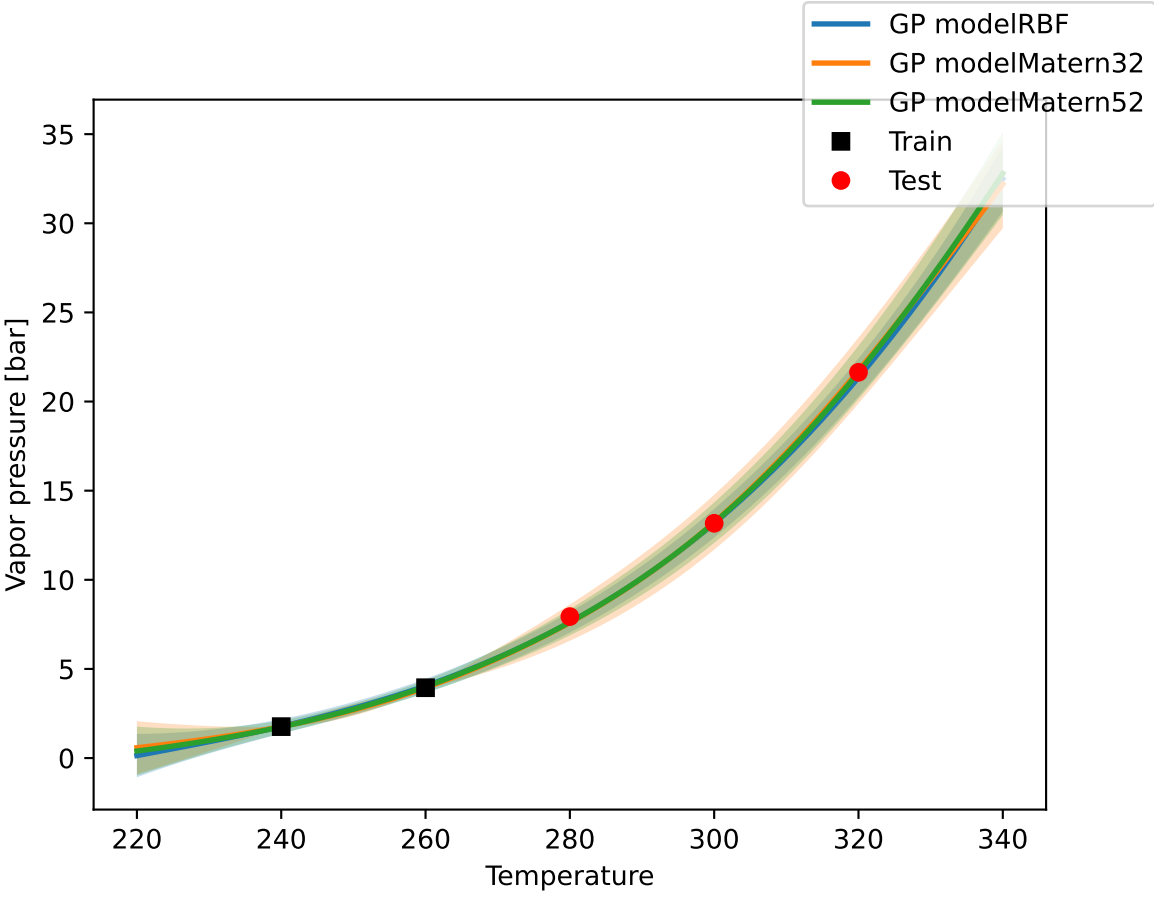
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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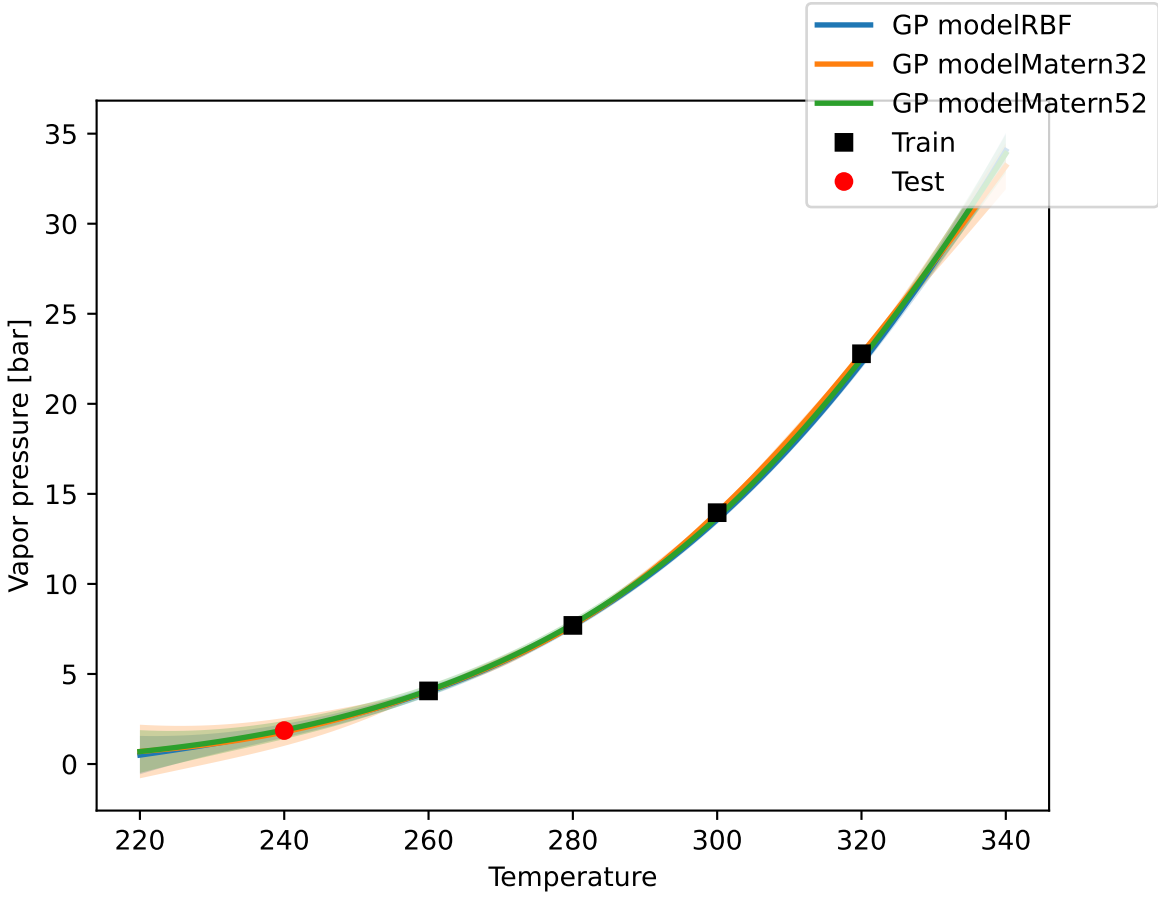
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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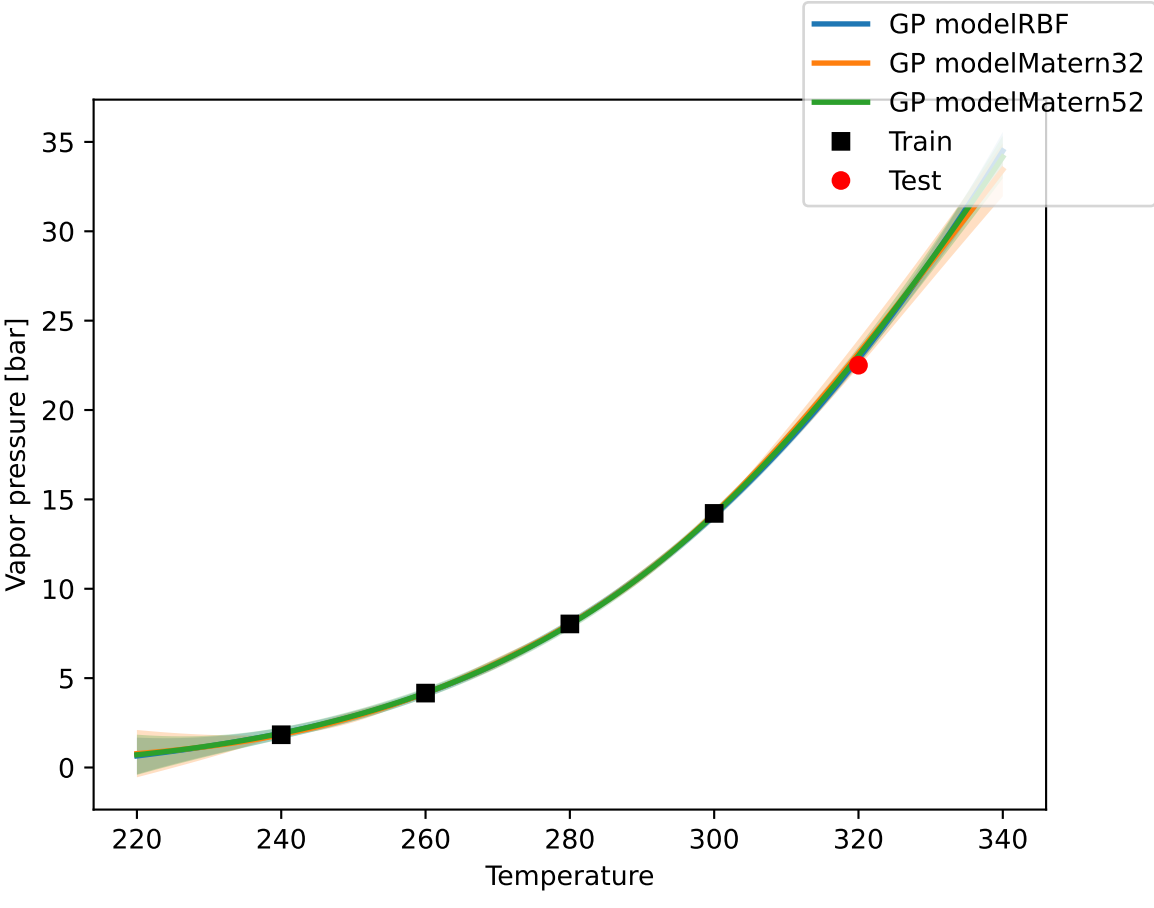
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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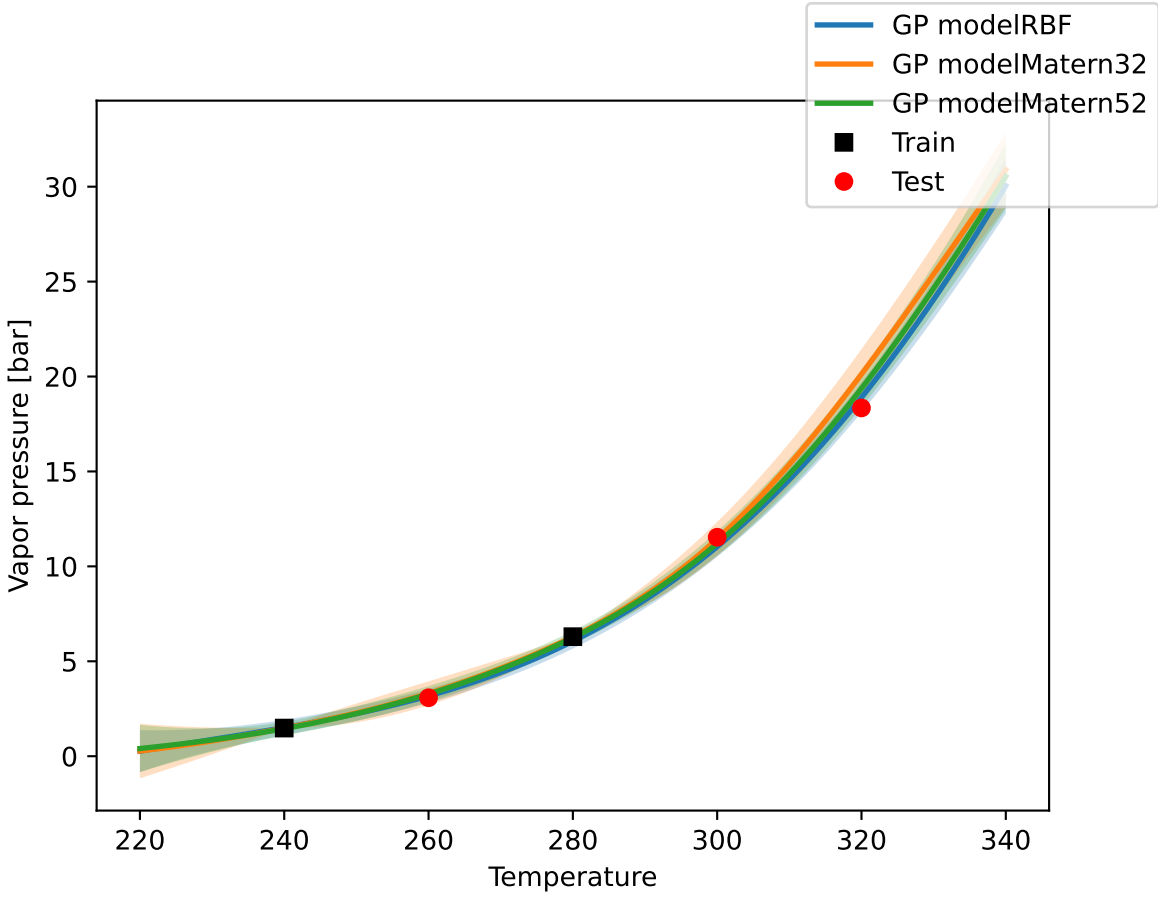
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Train
Test
Vapor pressure [bar]
Temperature
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320
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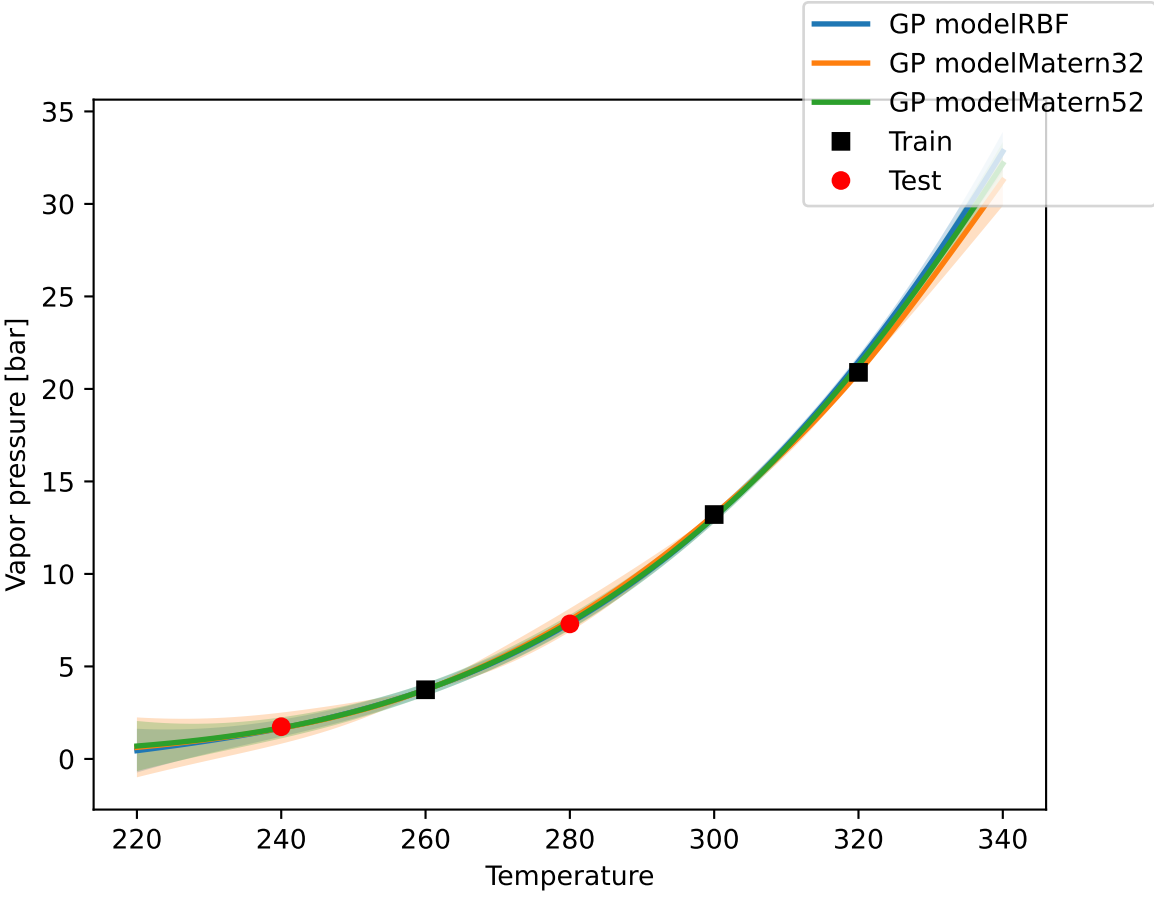
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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0
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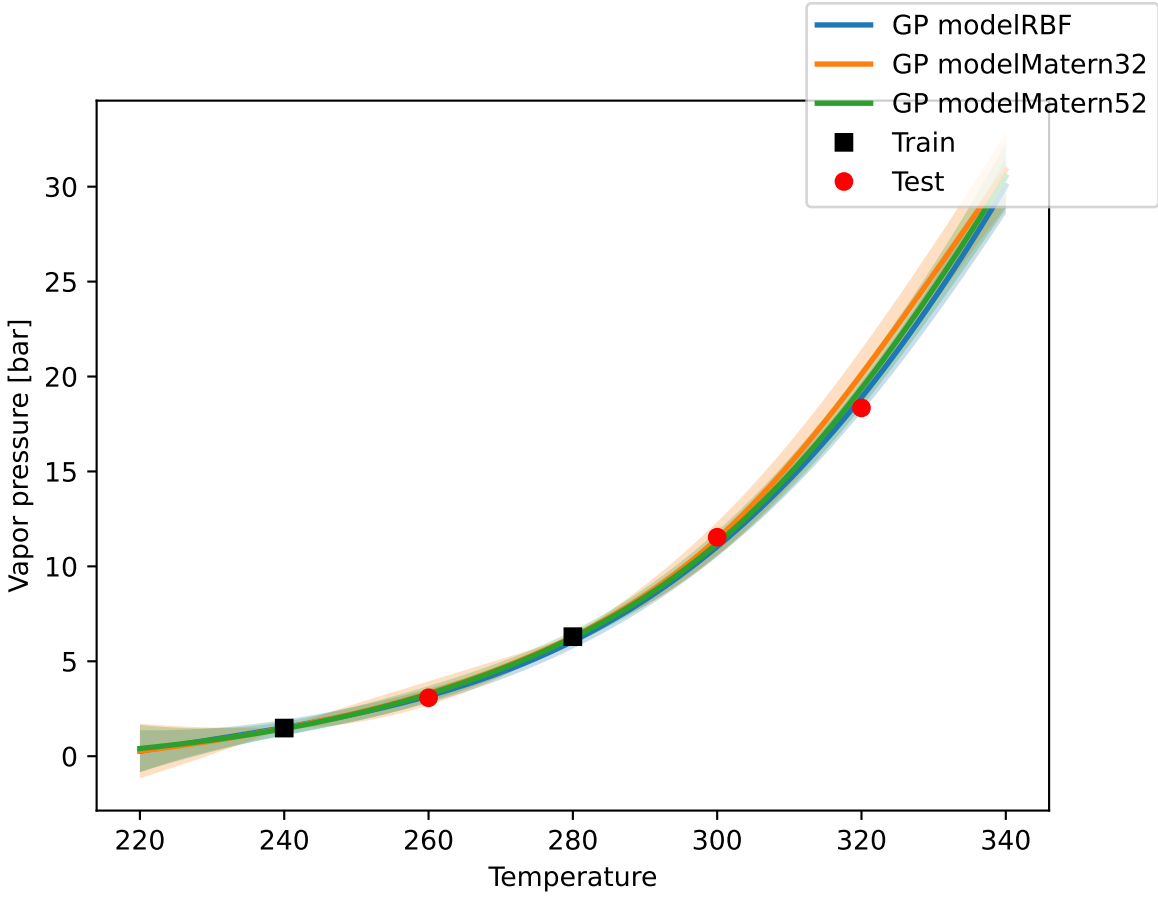
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GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
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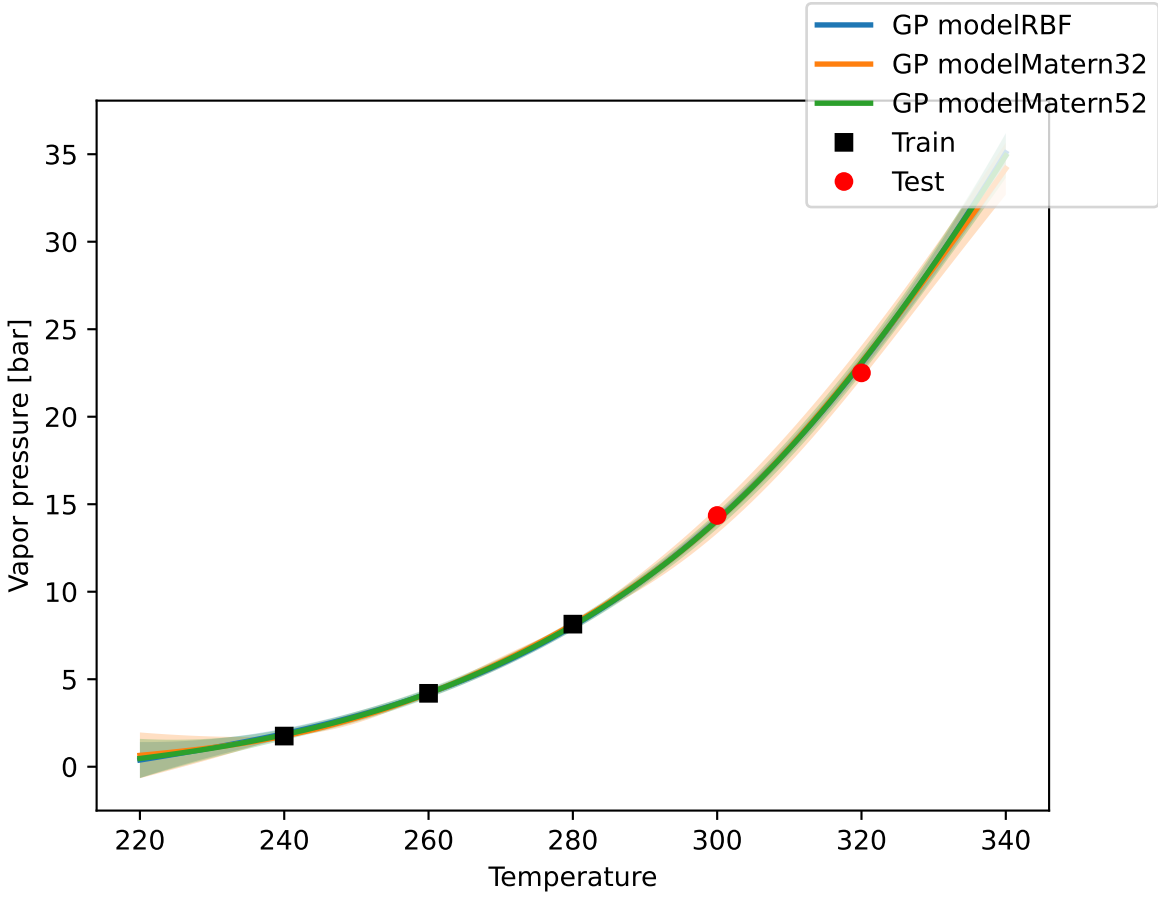
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GP modelMatern32
GP modelMatern52
Train
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Vapor pressure [bar]
Temperature
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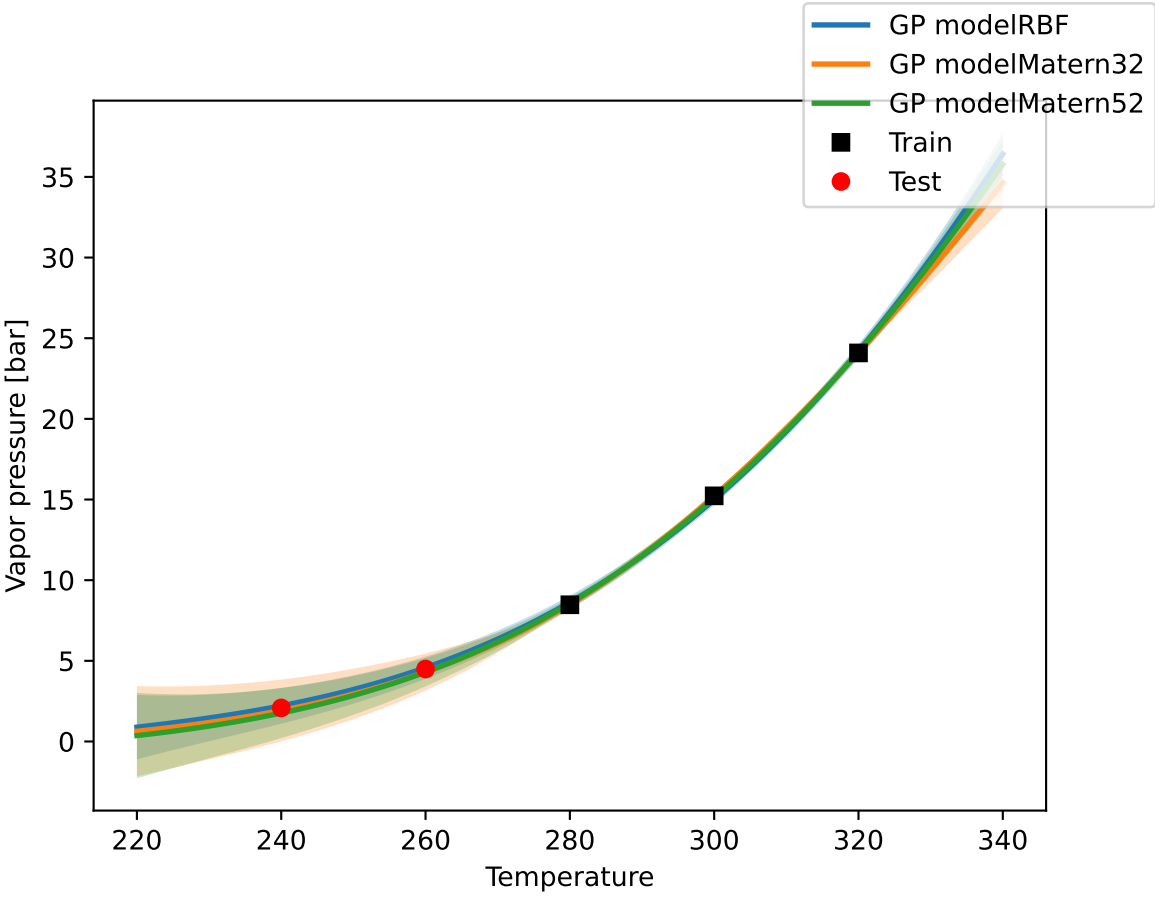
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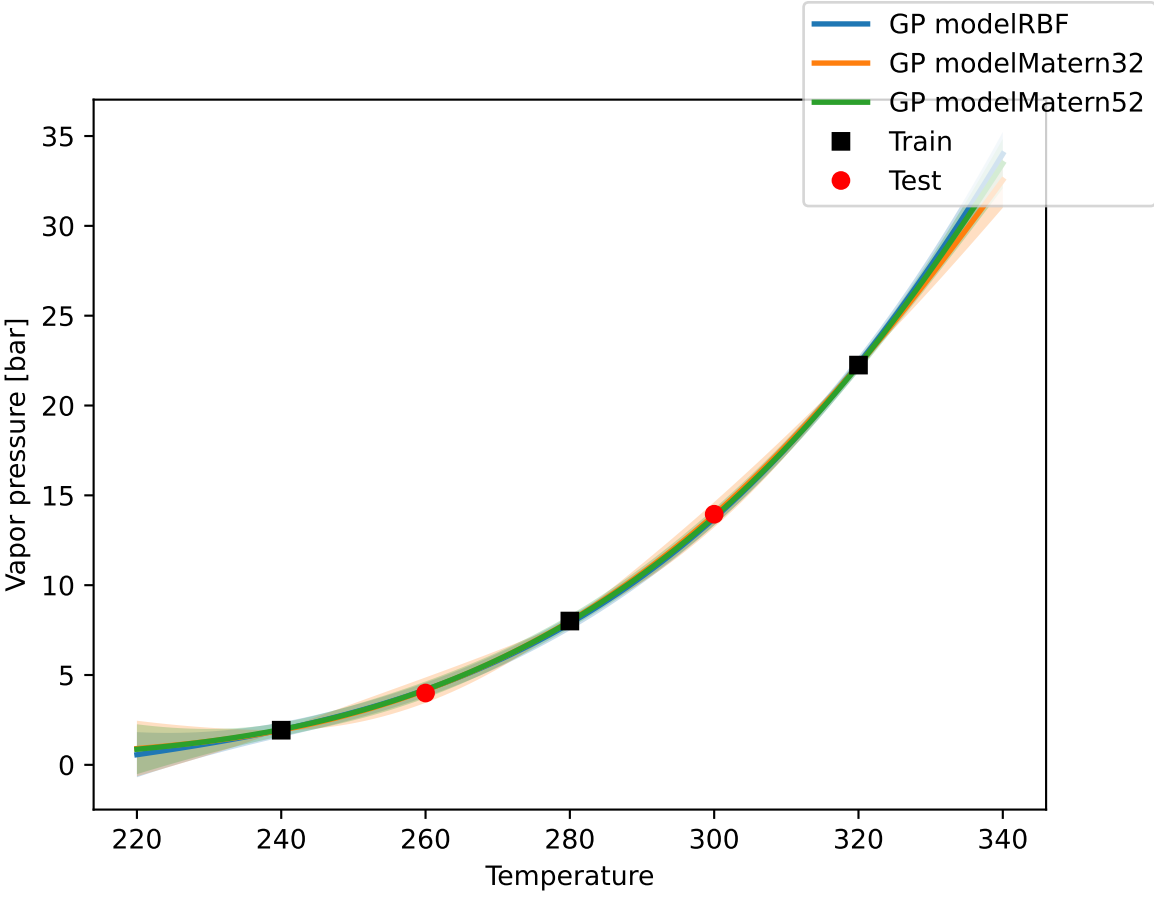
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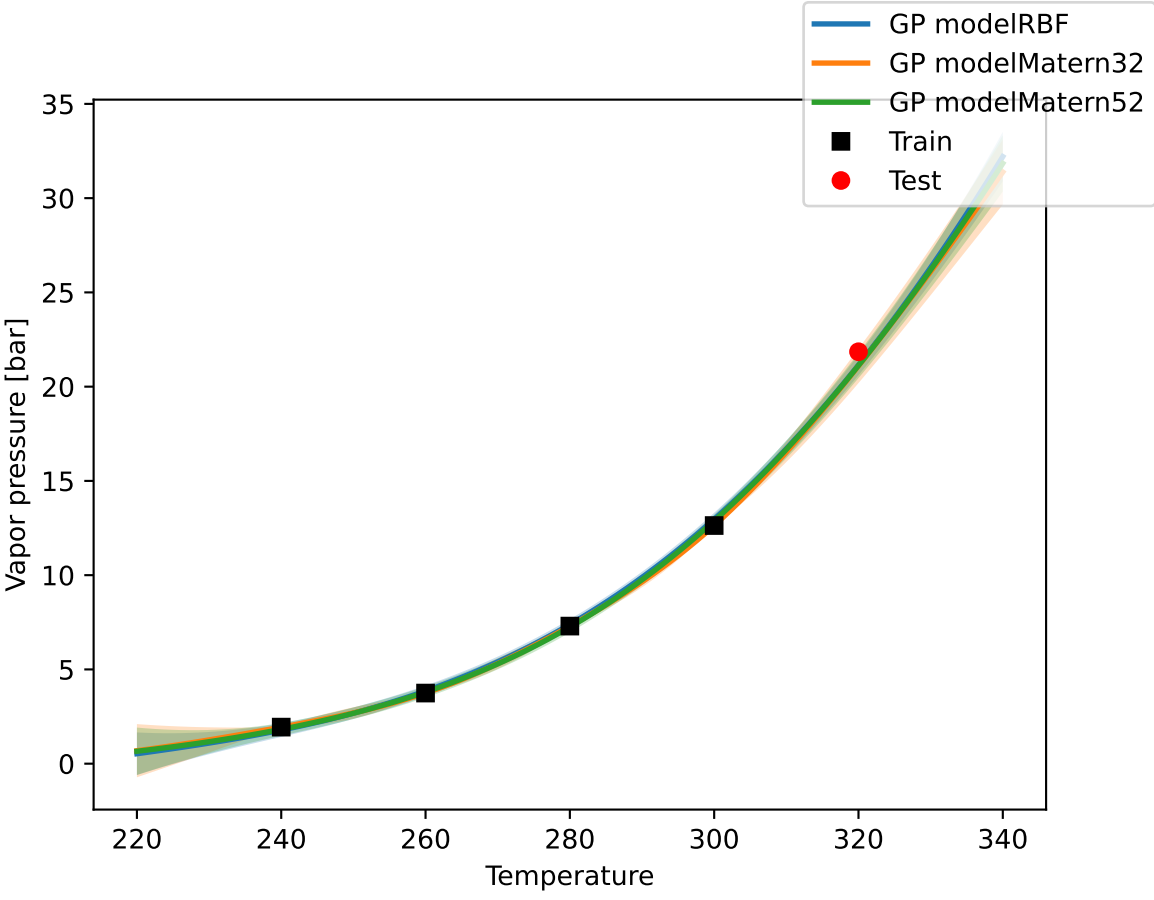
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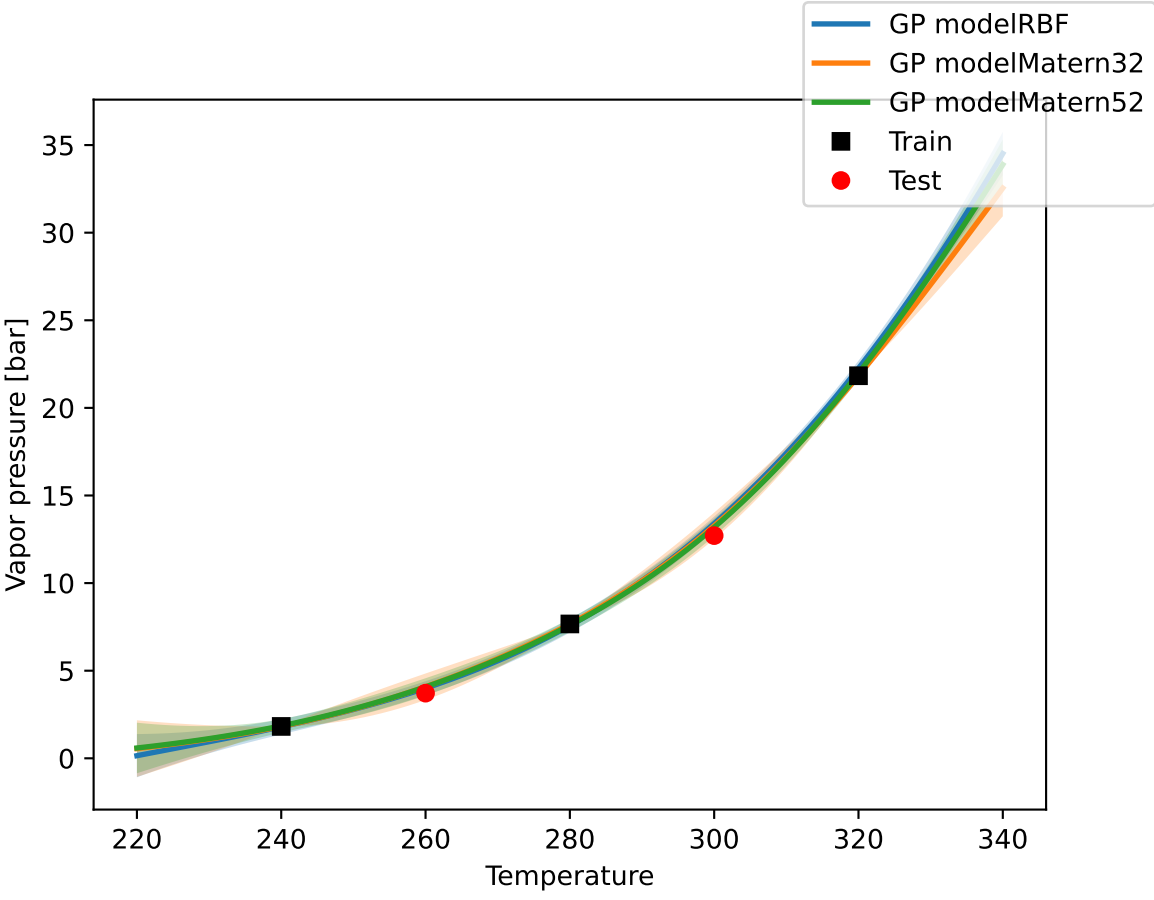
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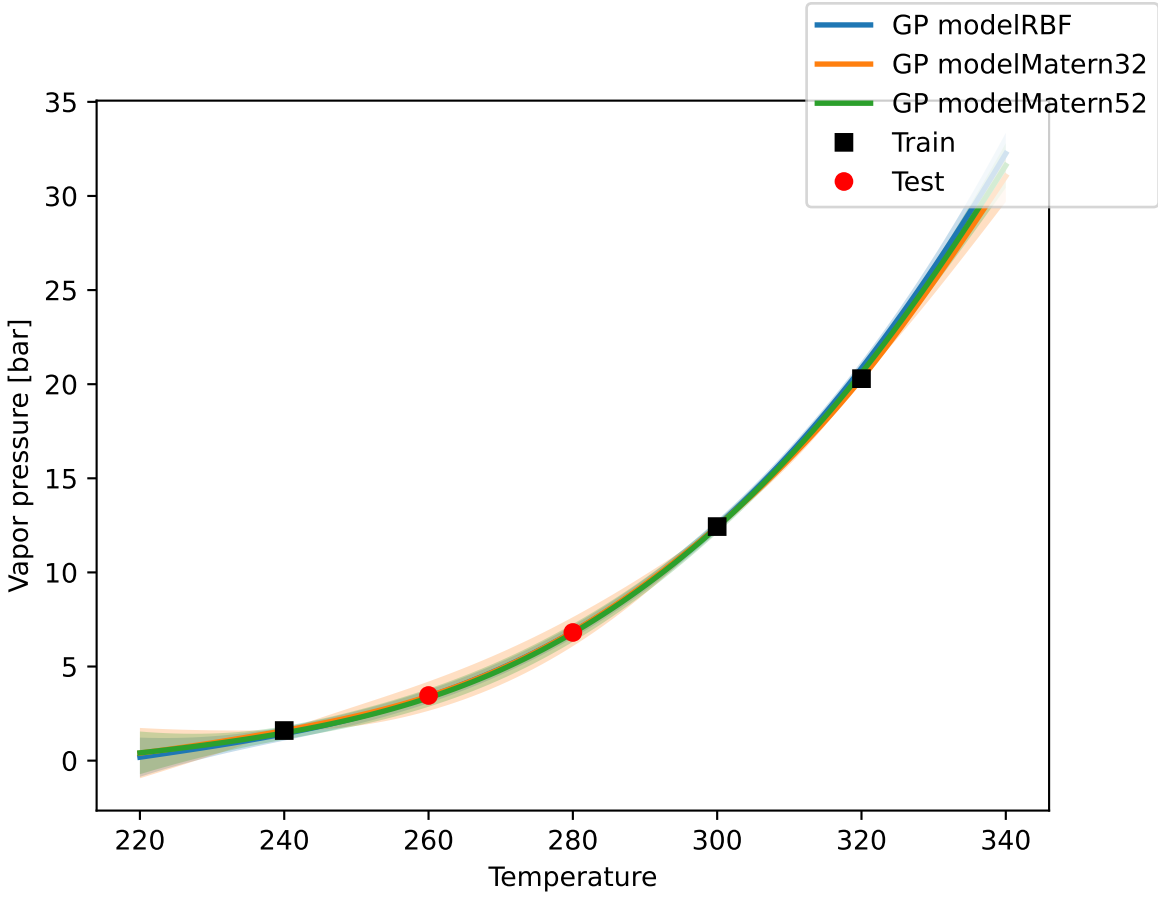
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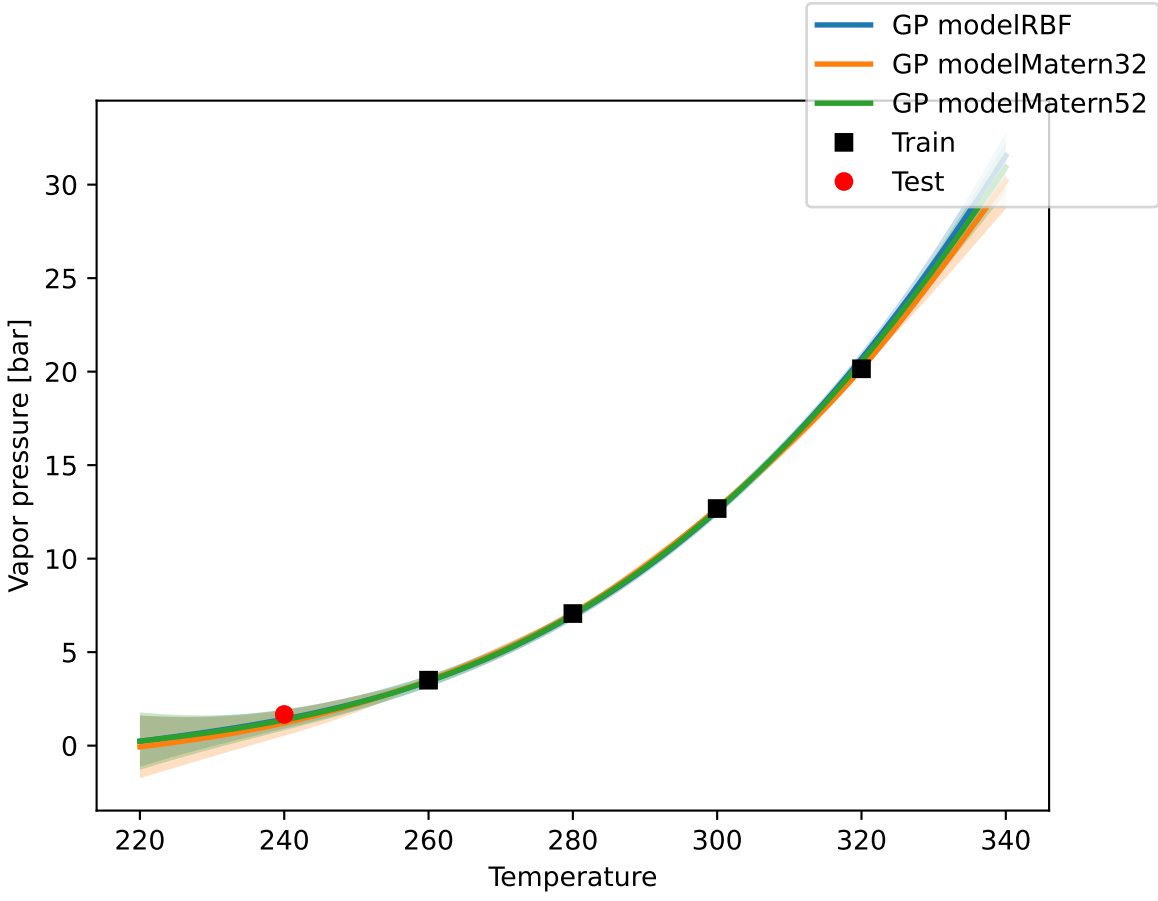
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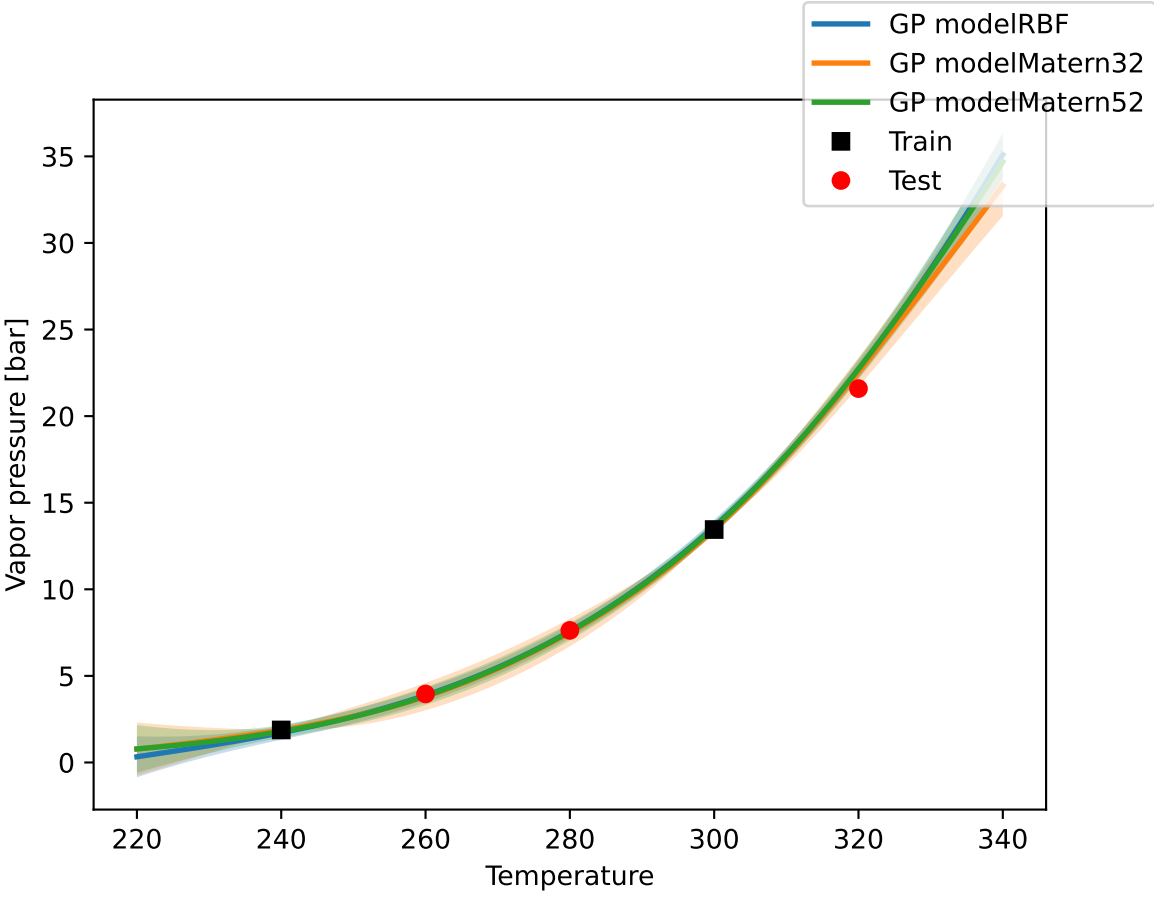
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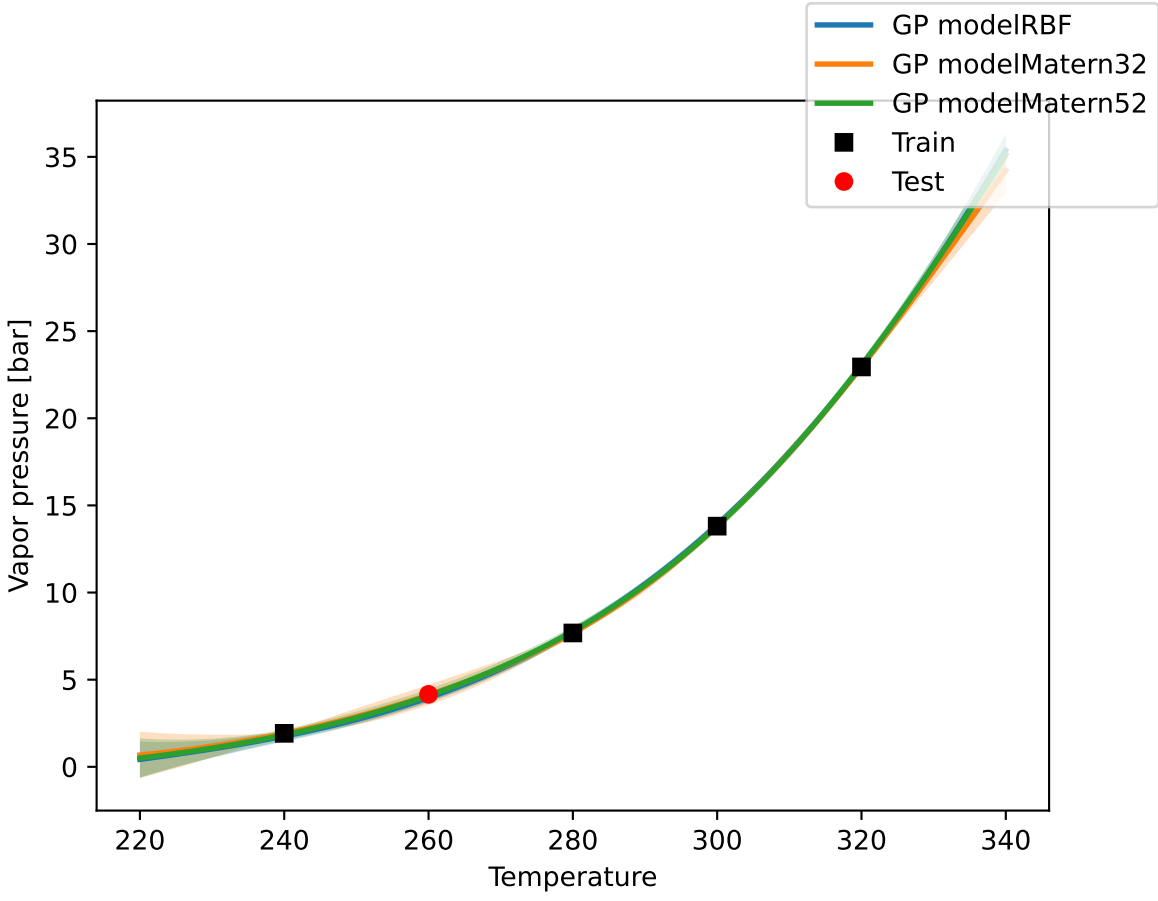
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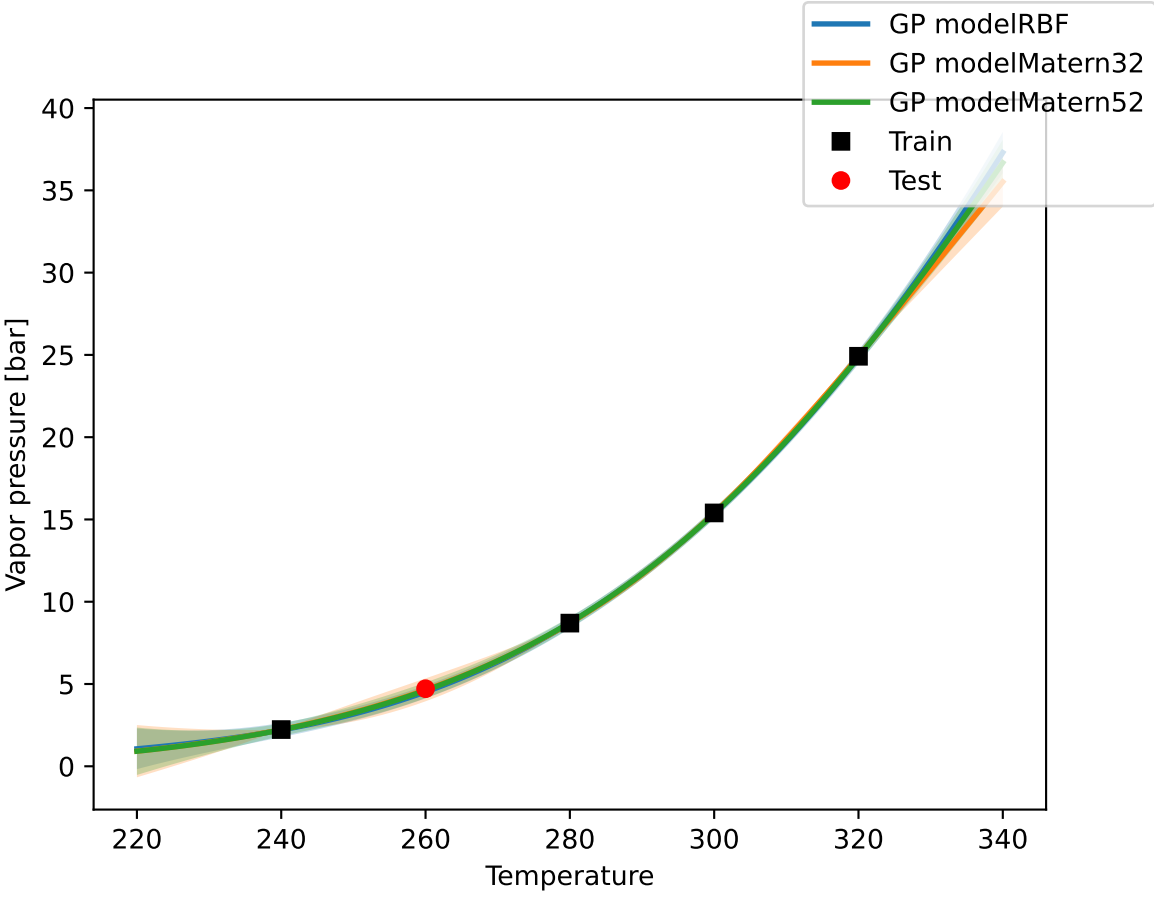
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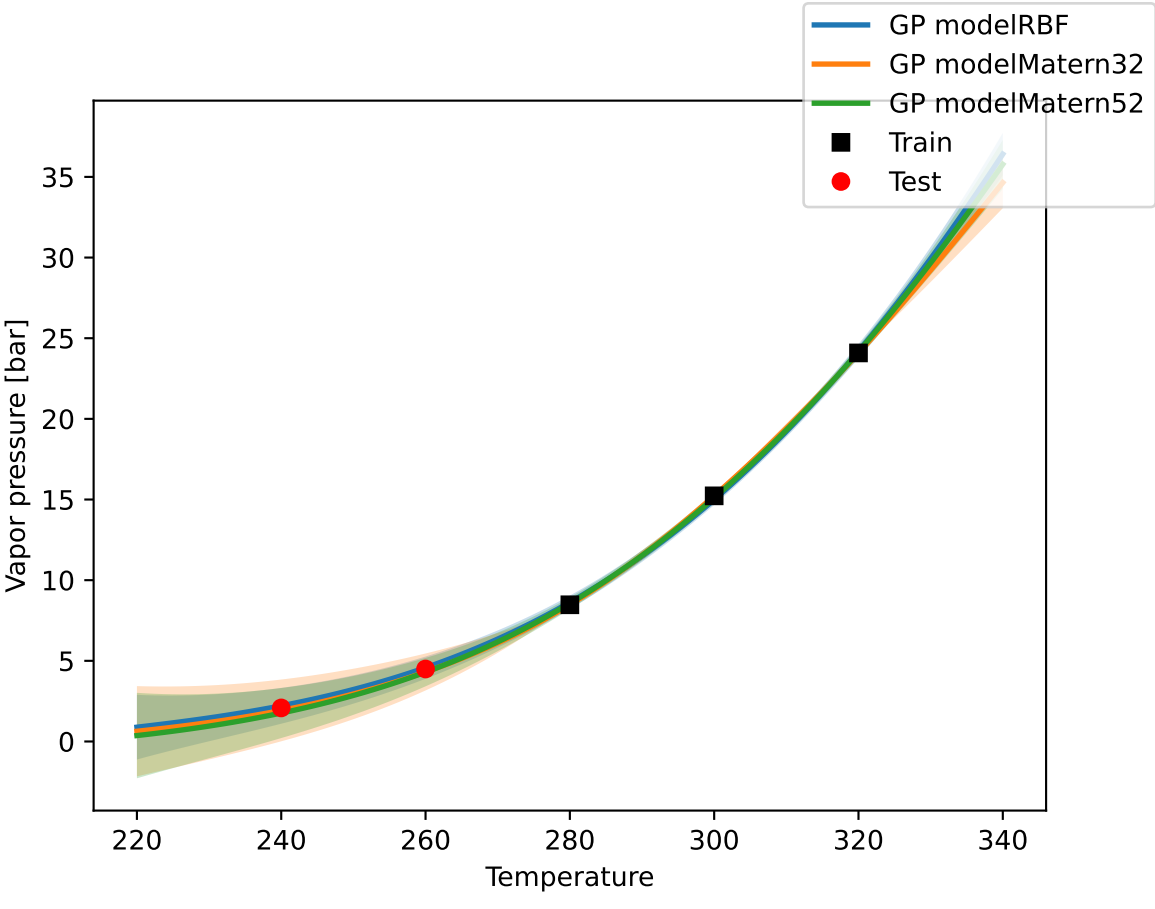
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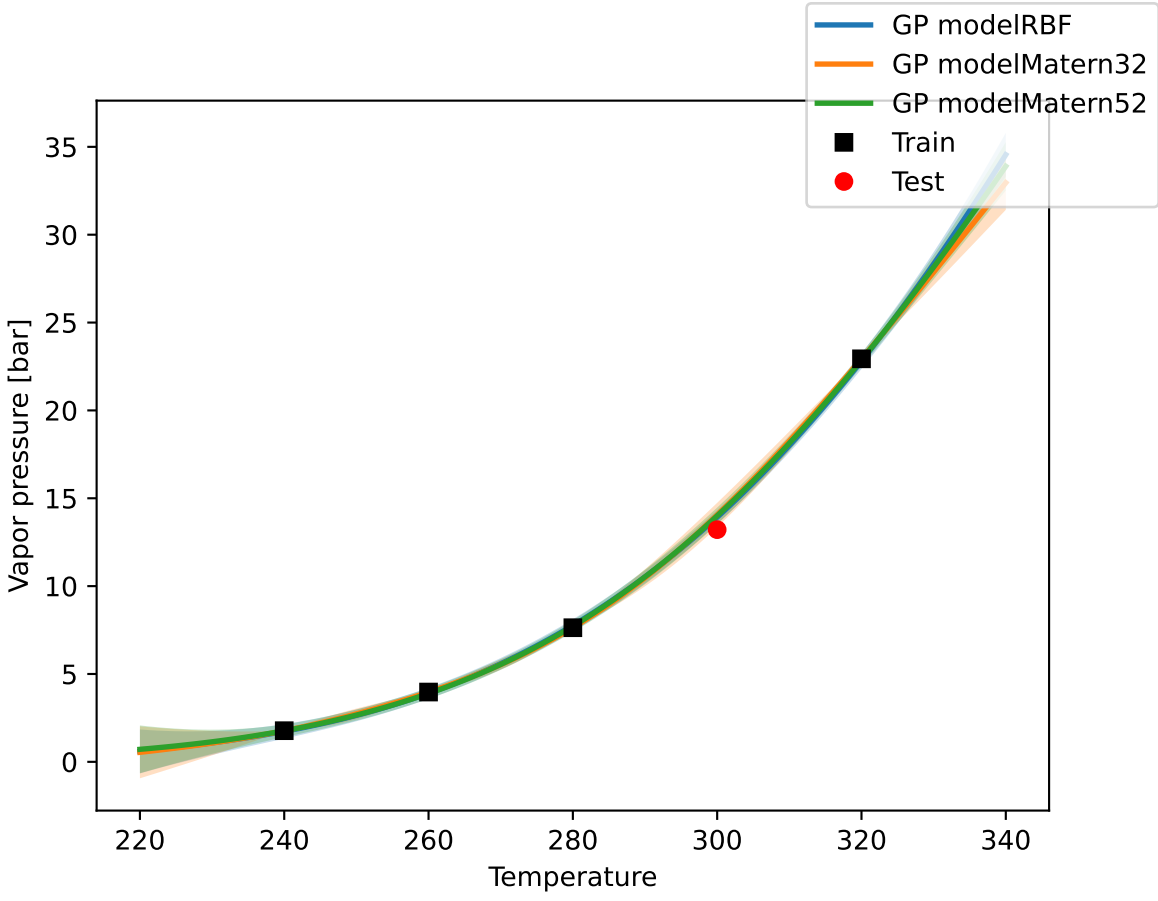
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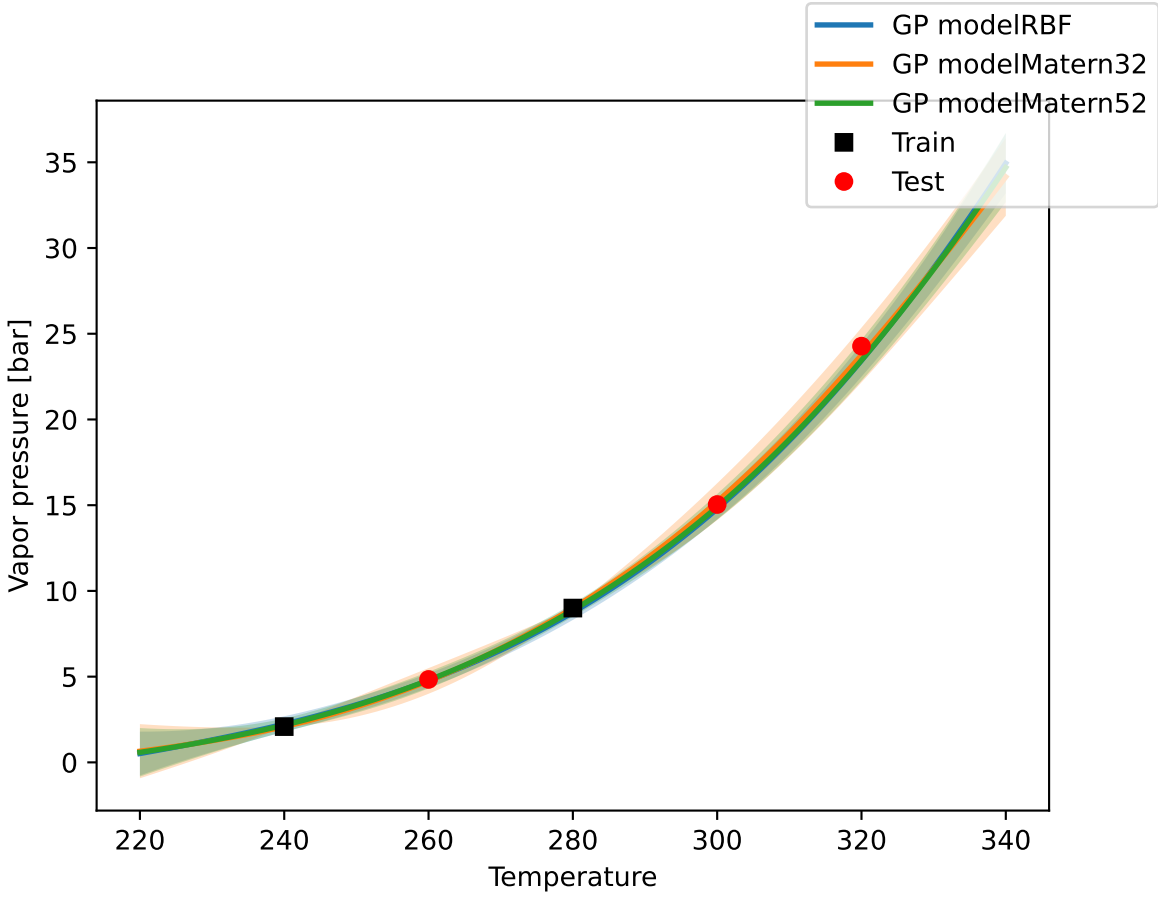
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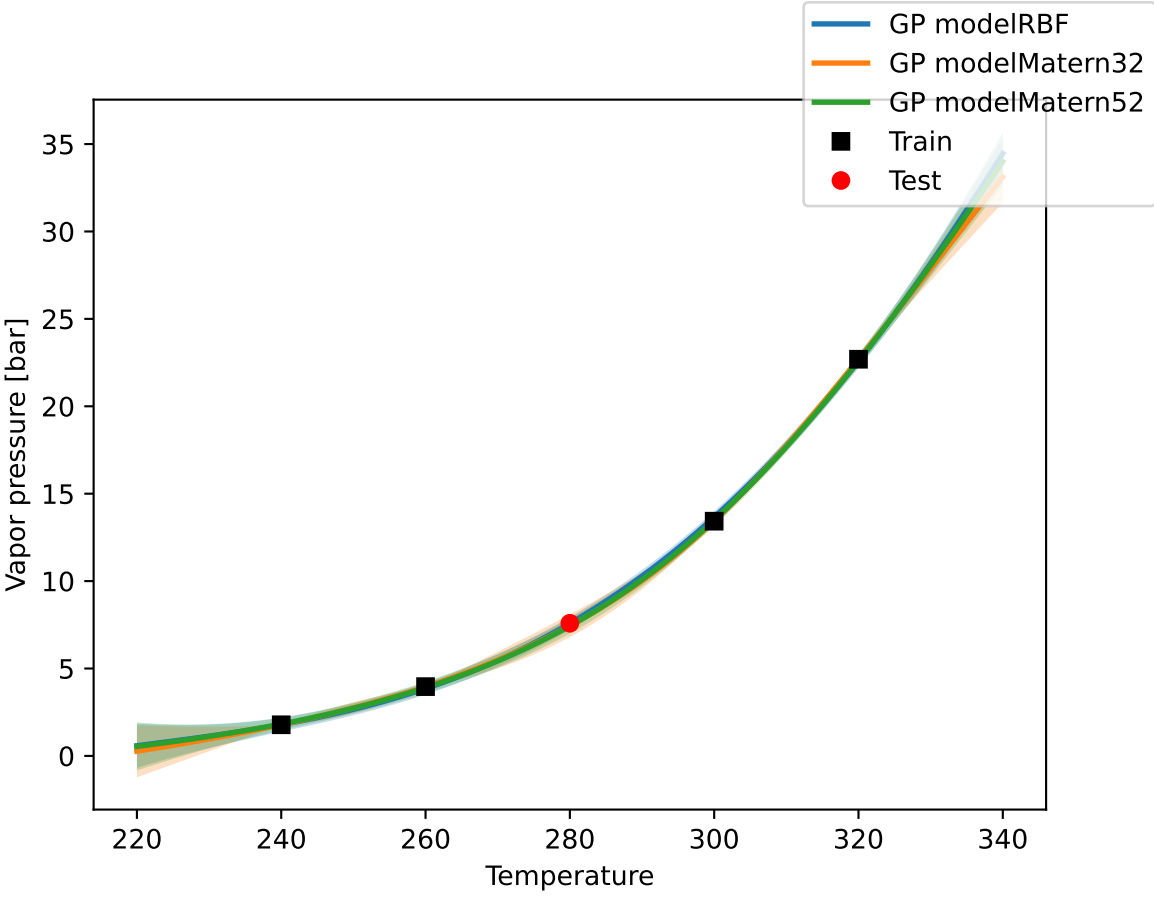
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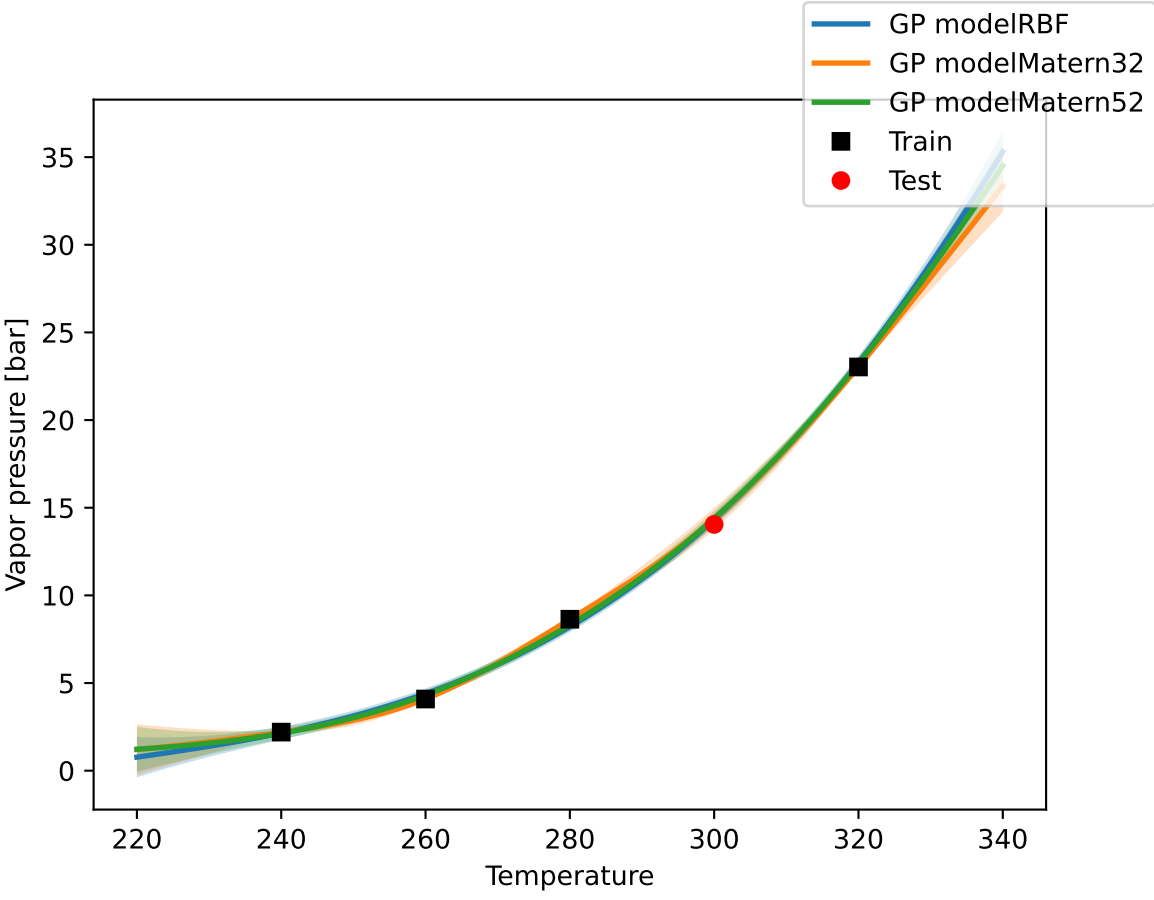
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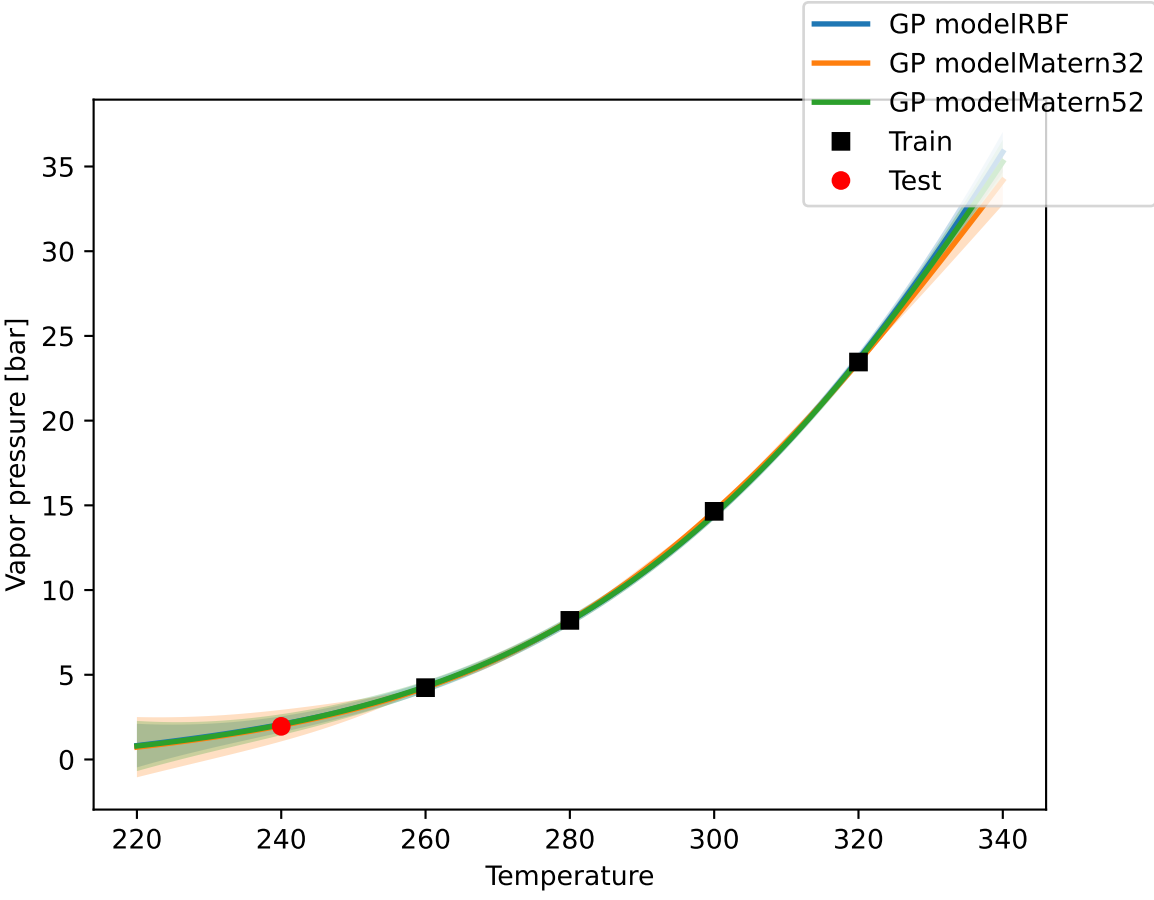
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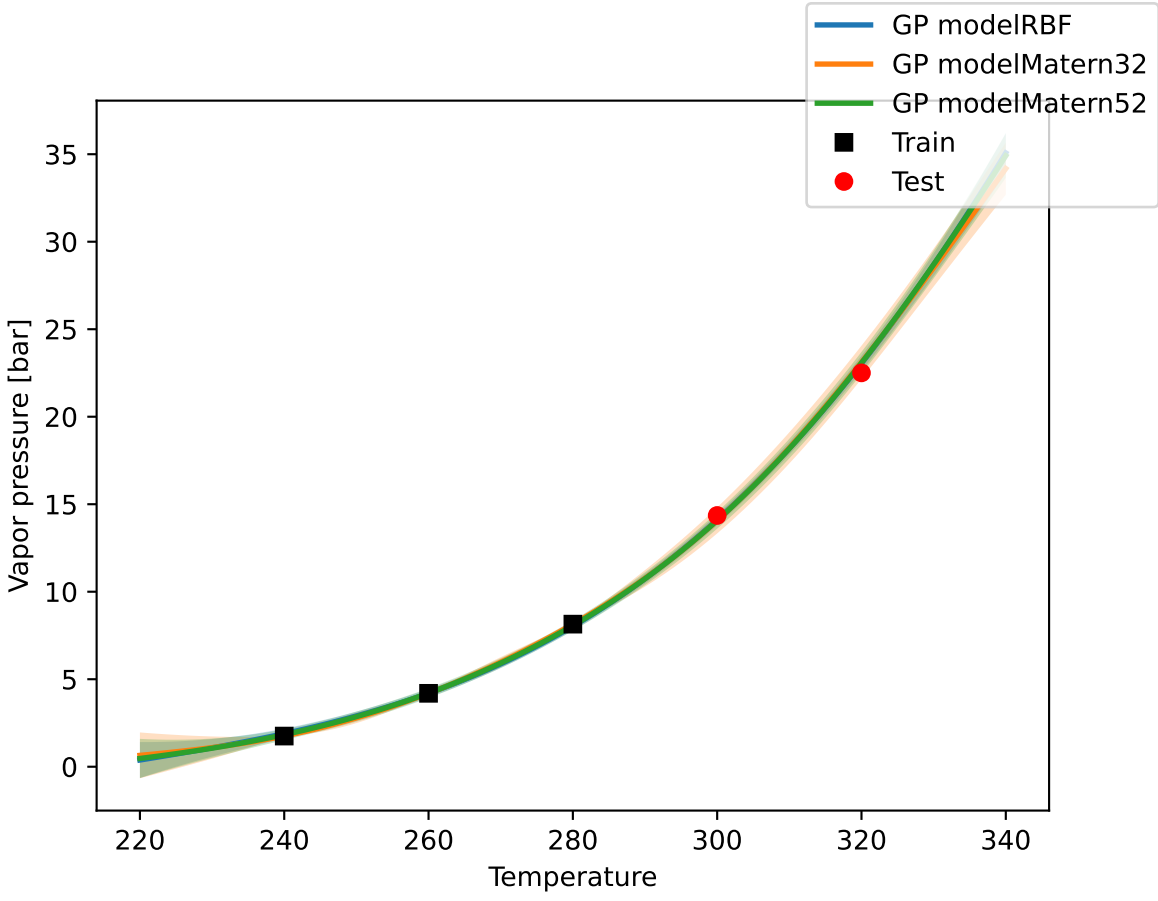
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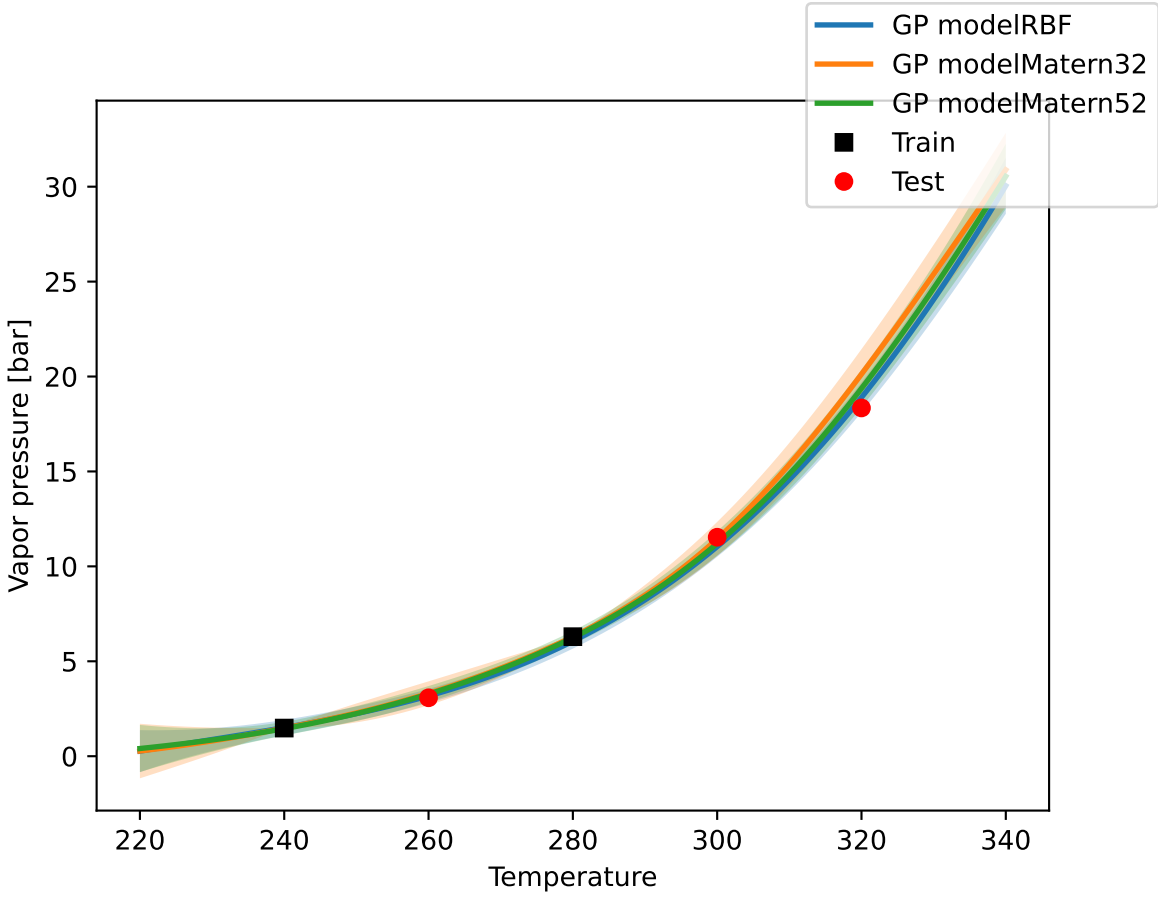
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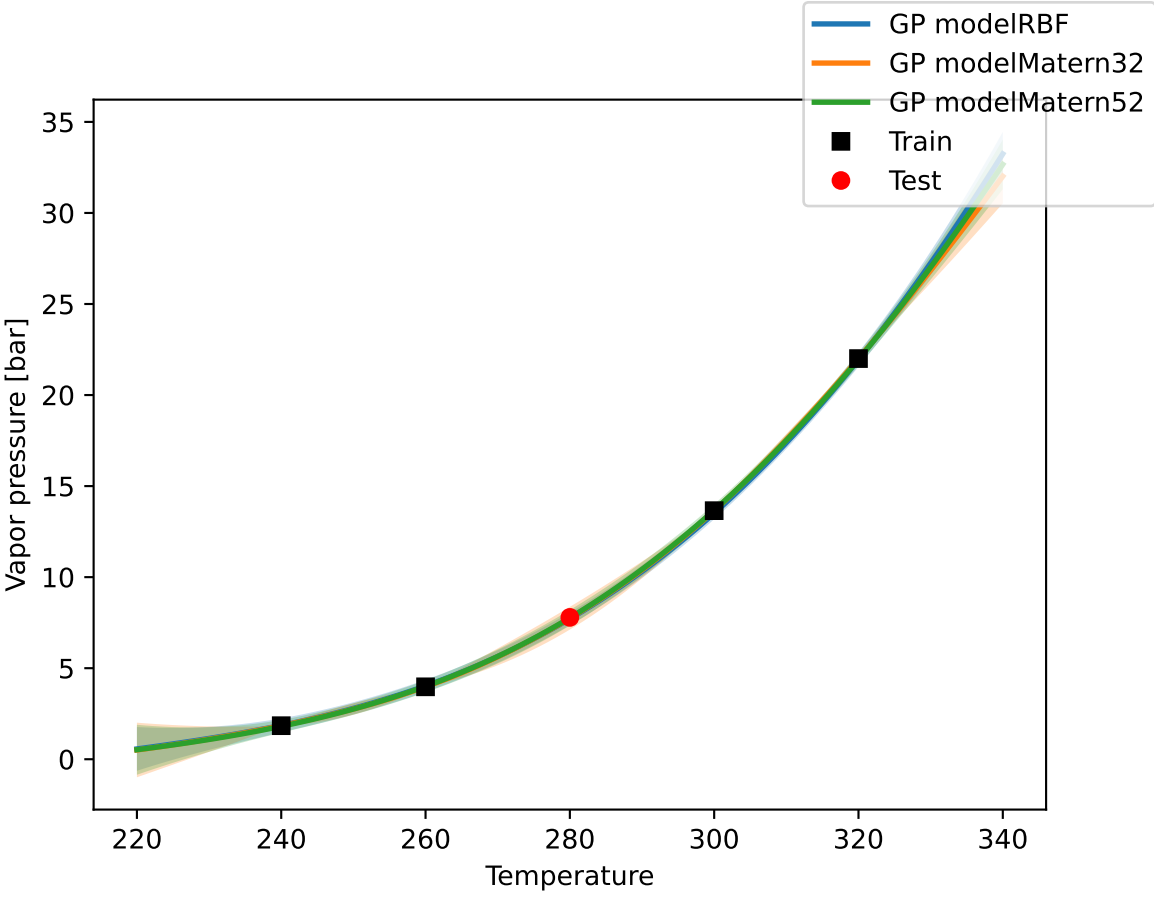
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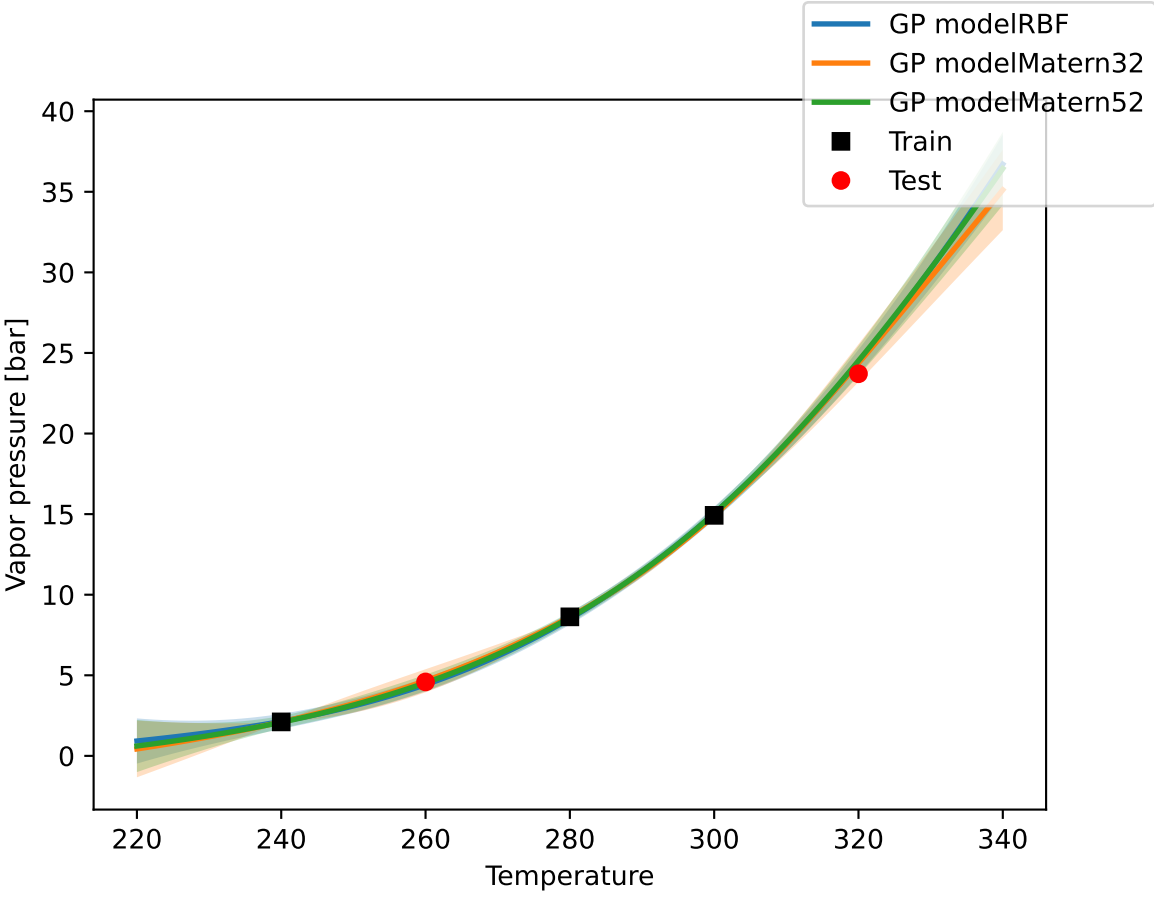
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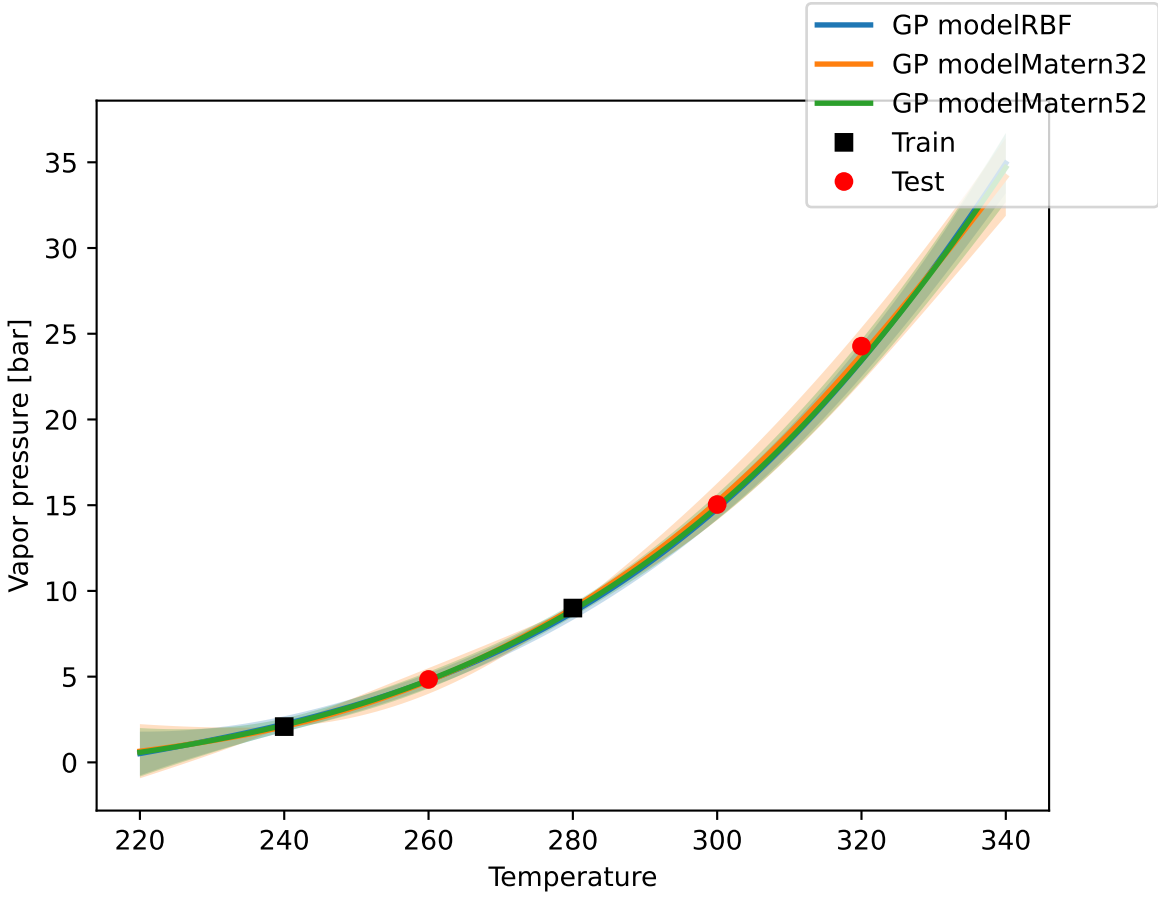
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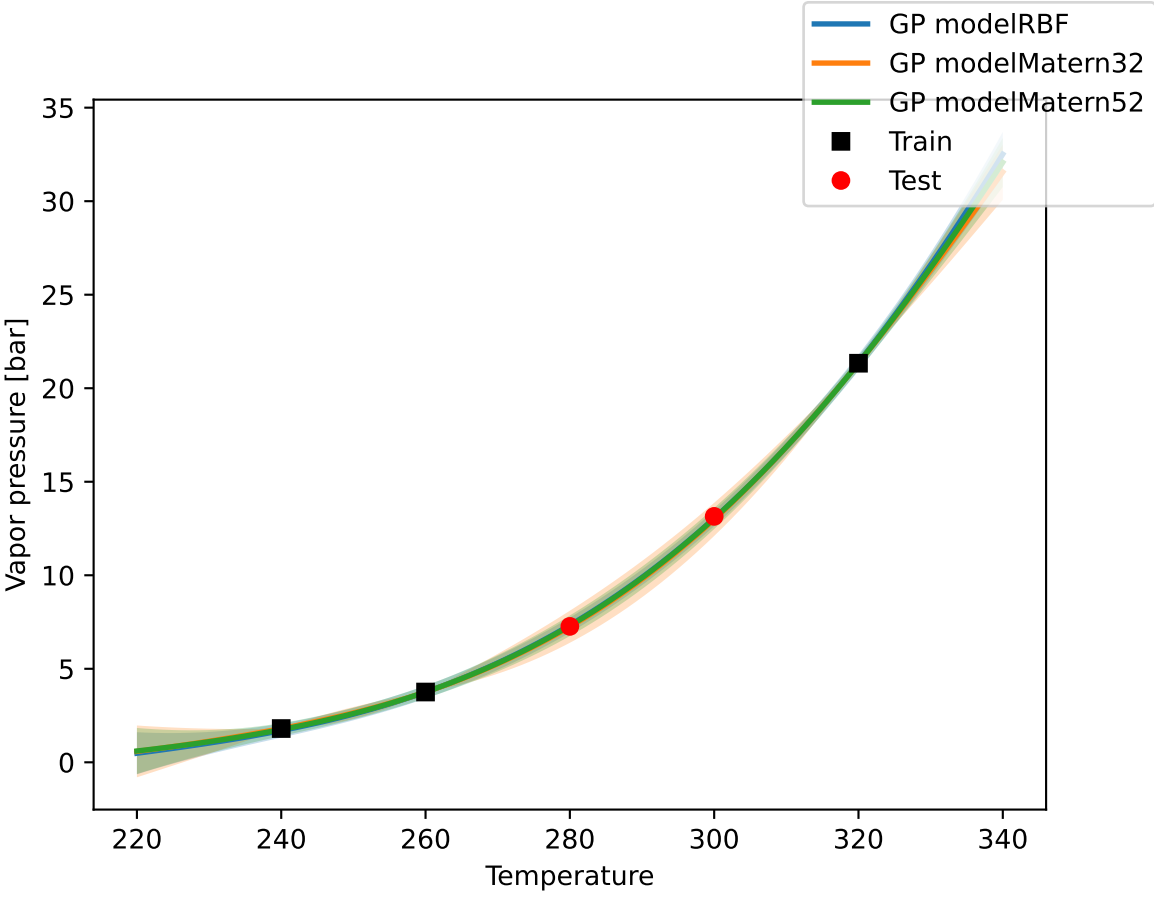
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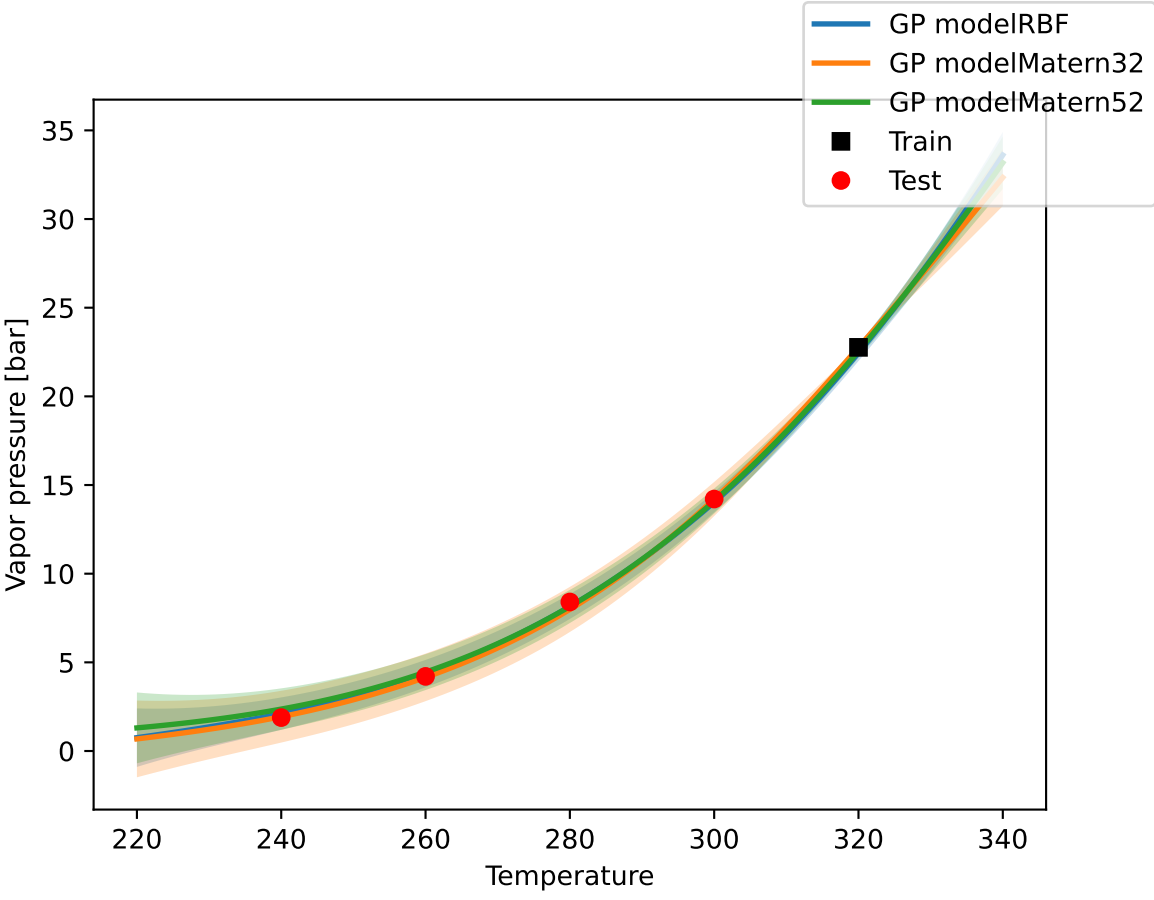
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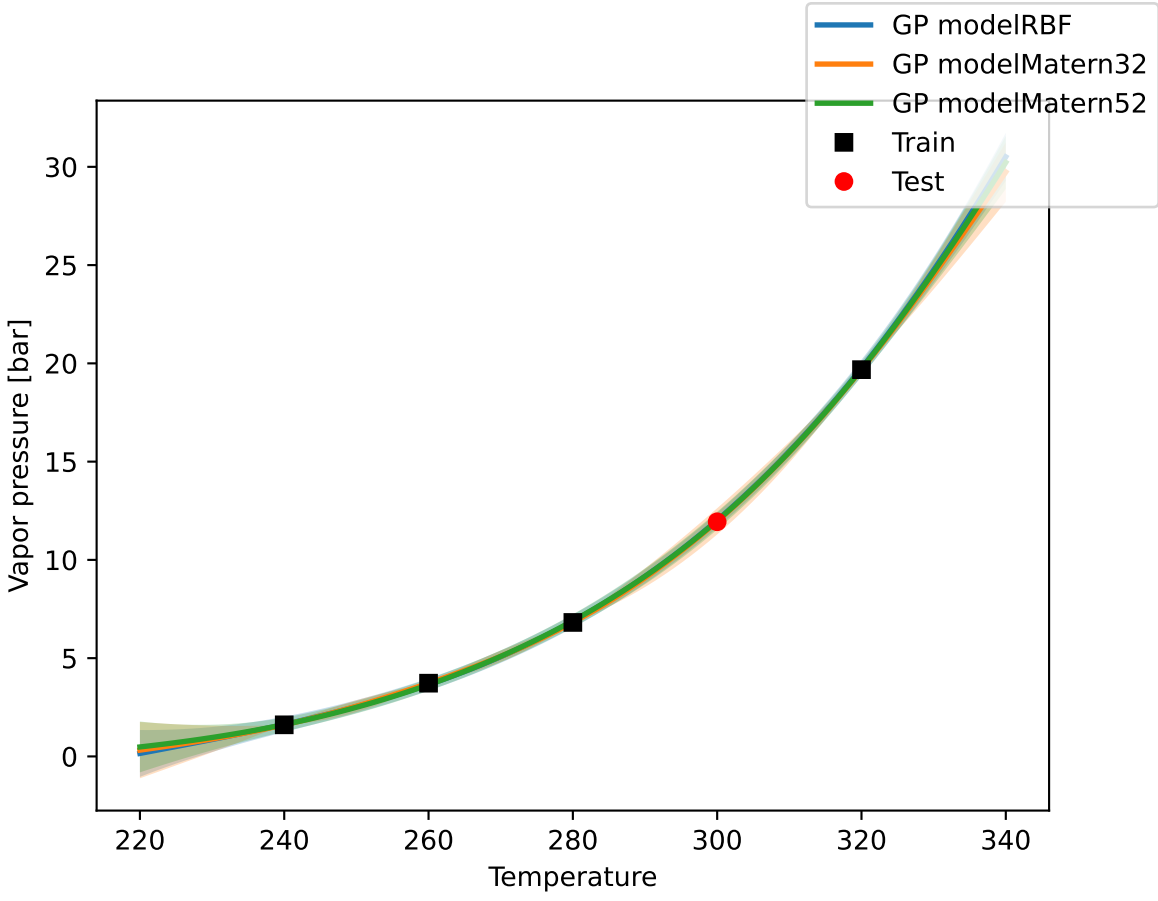
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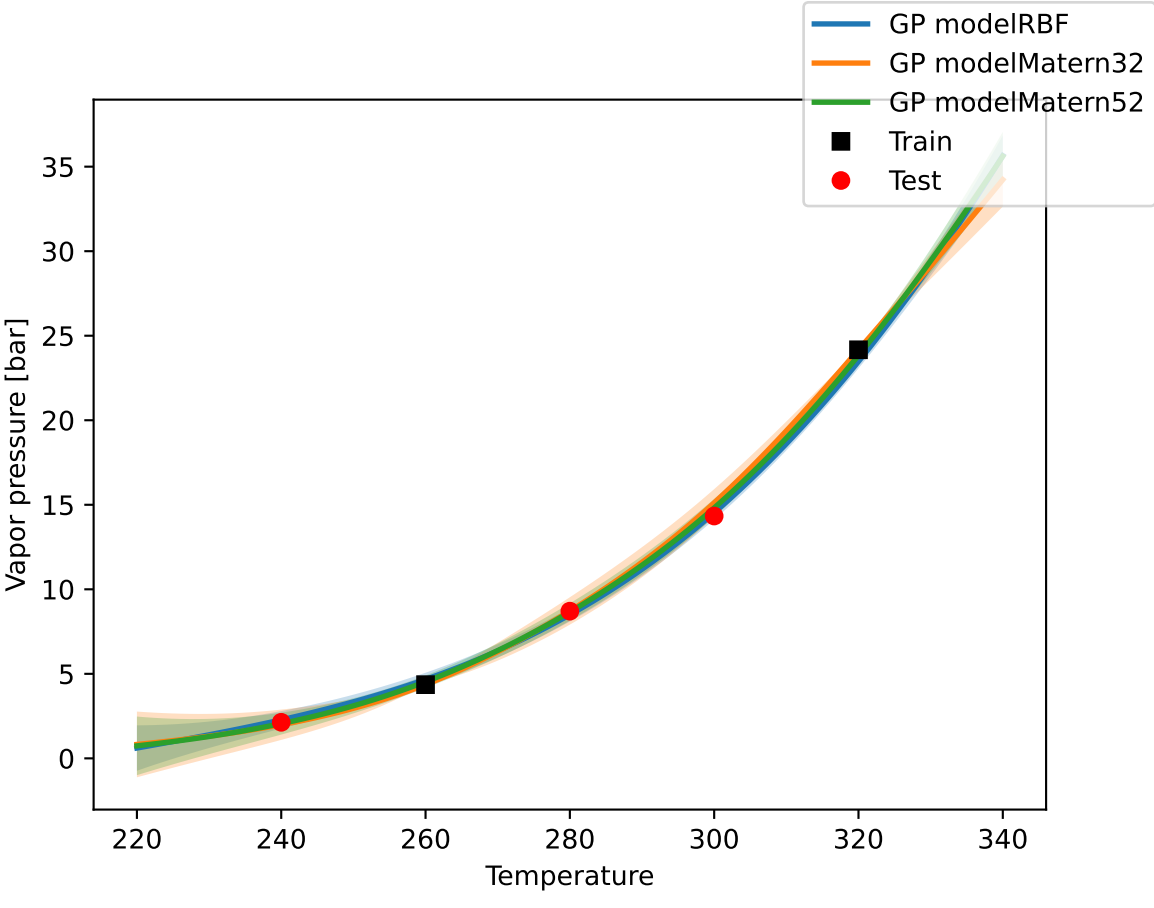
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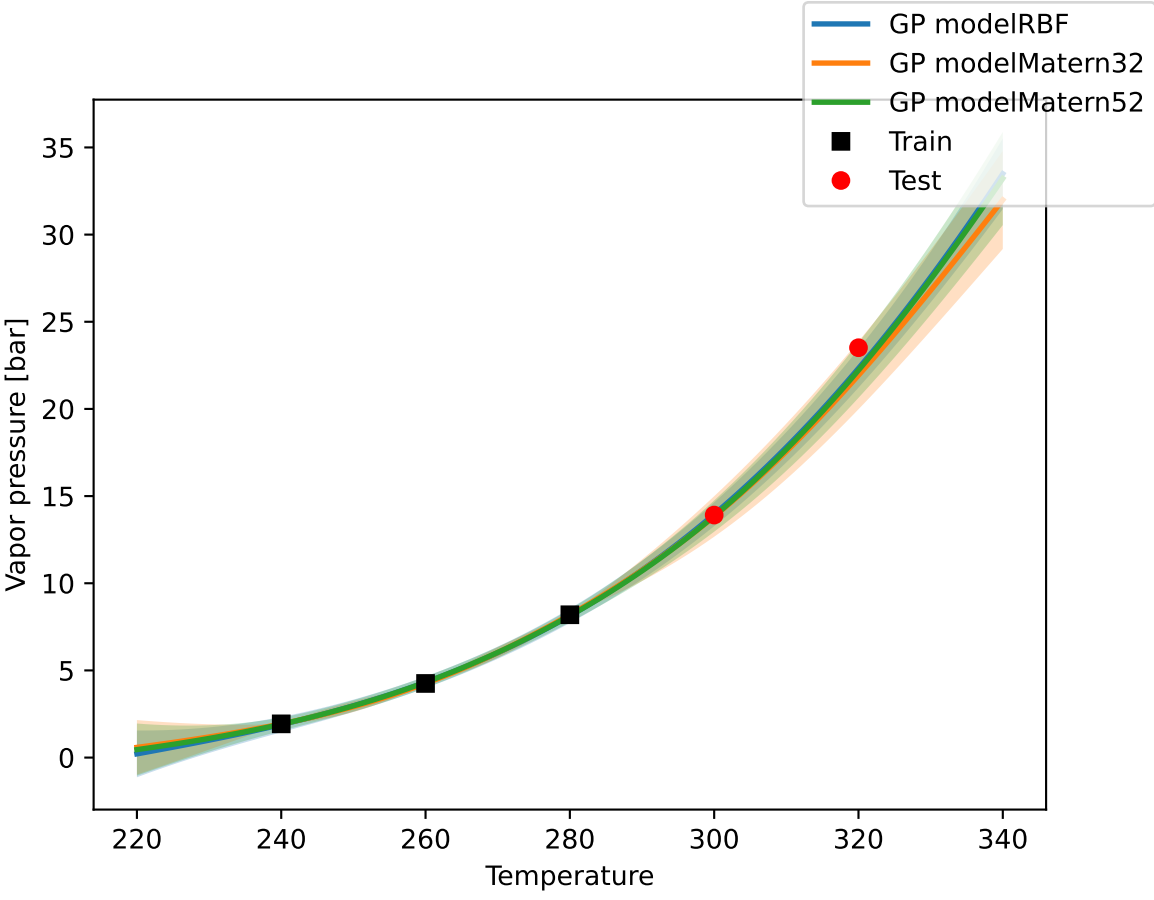
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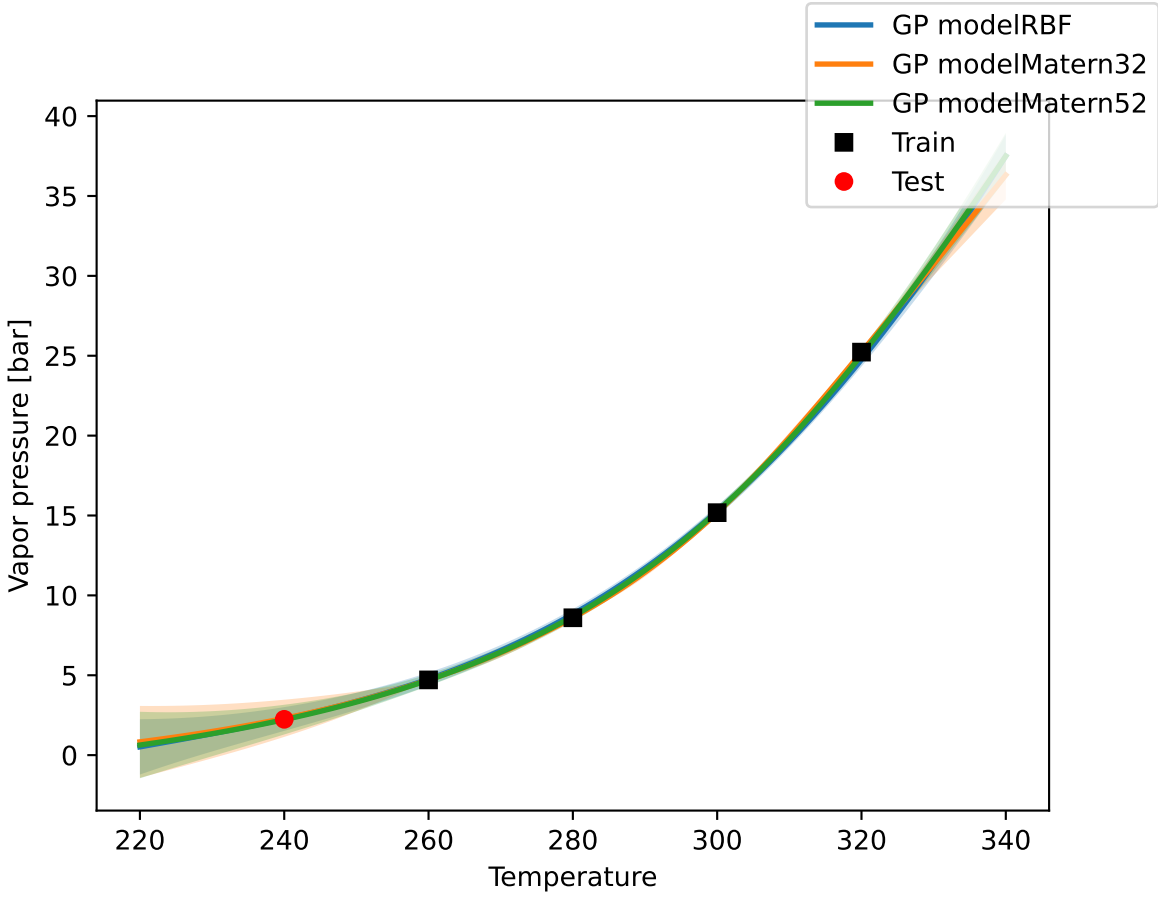
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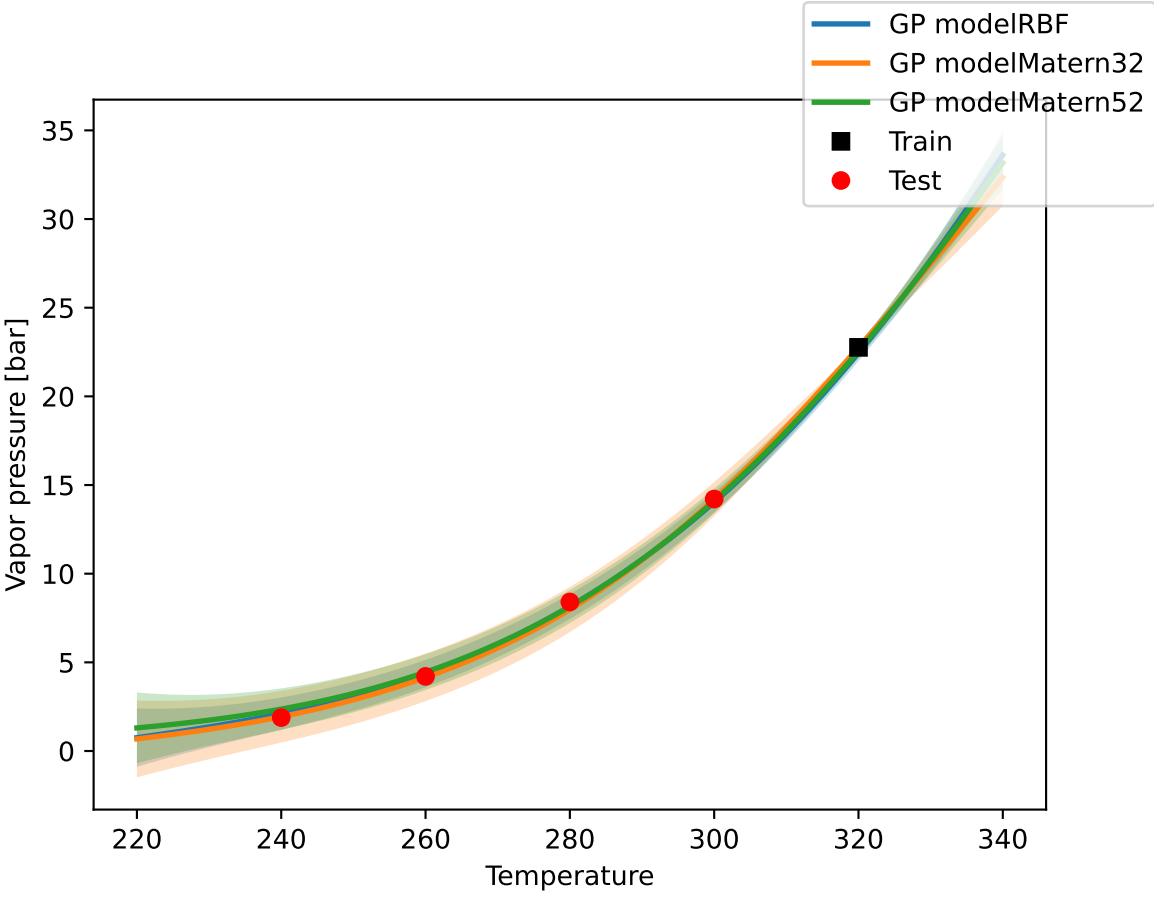
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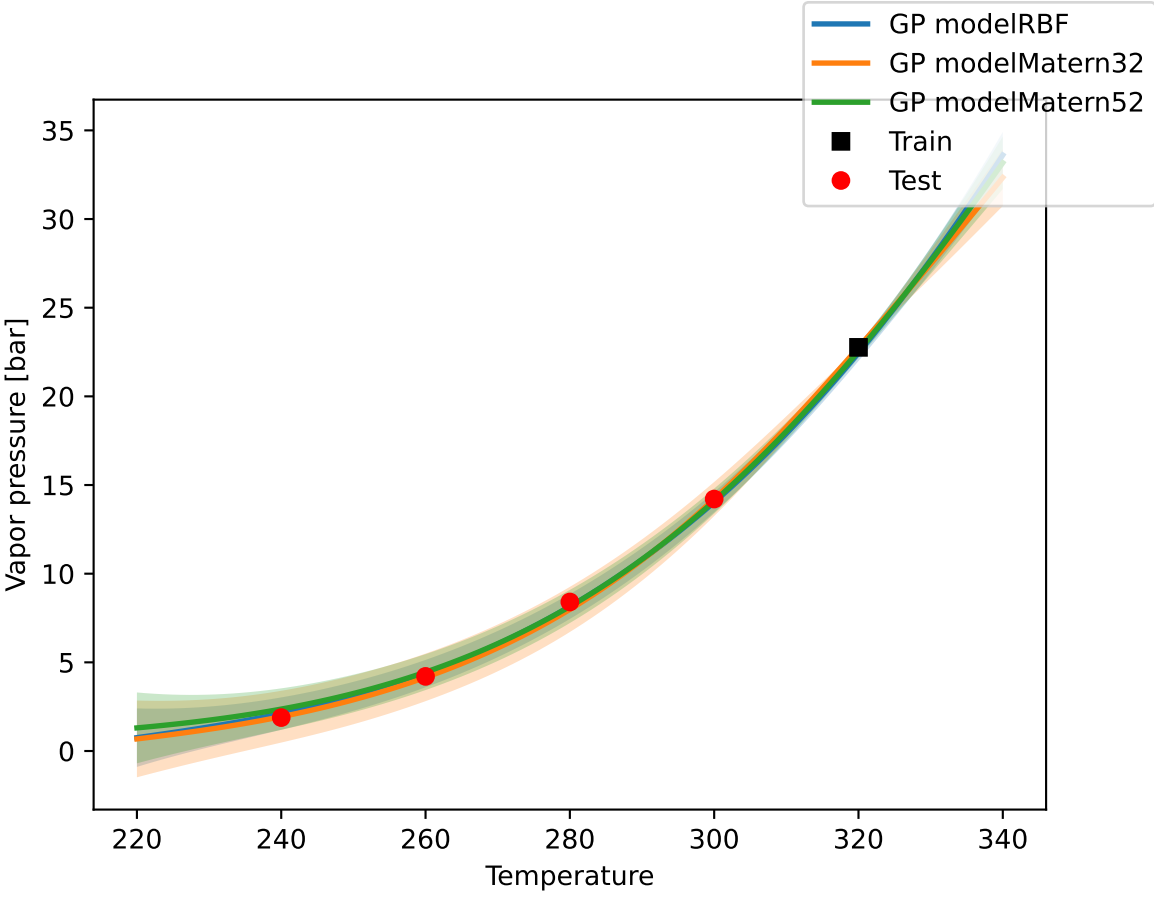
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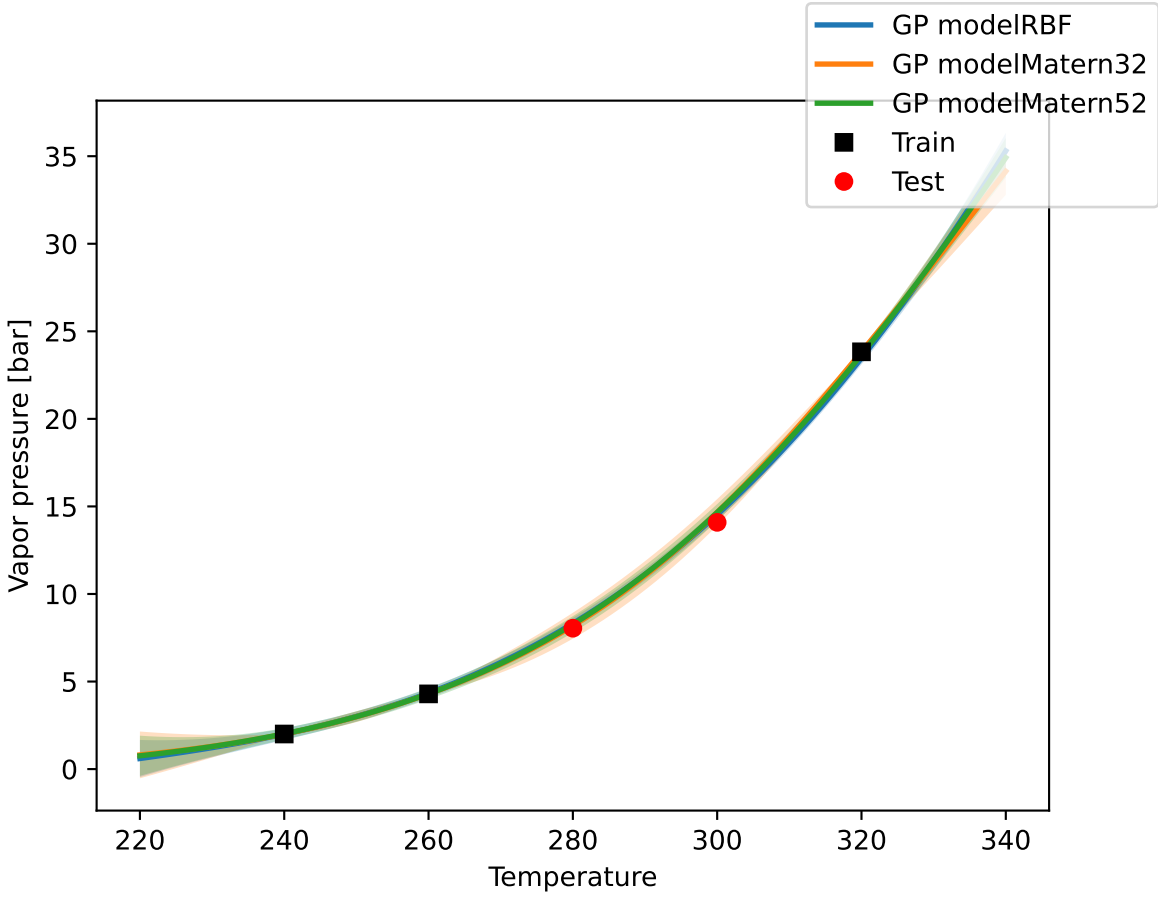
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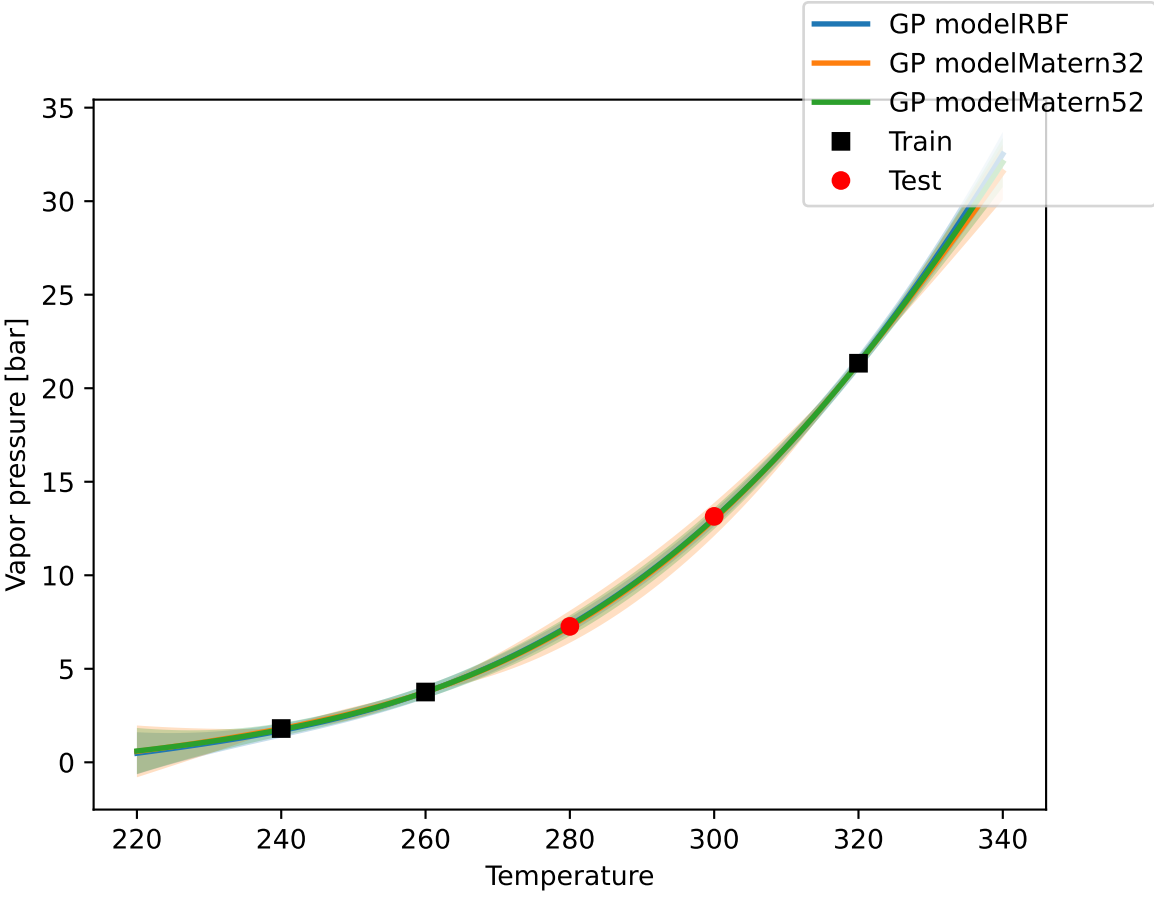
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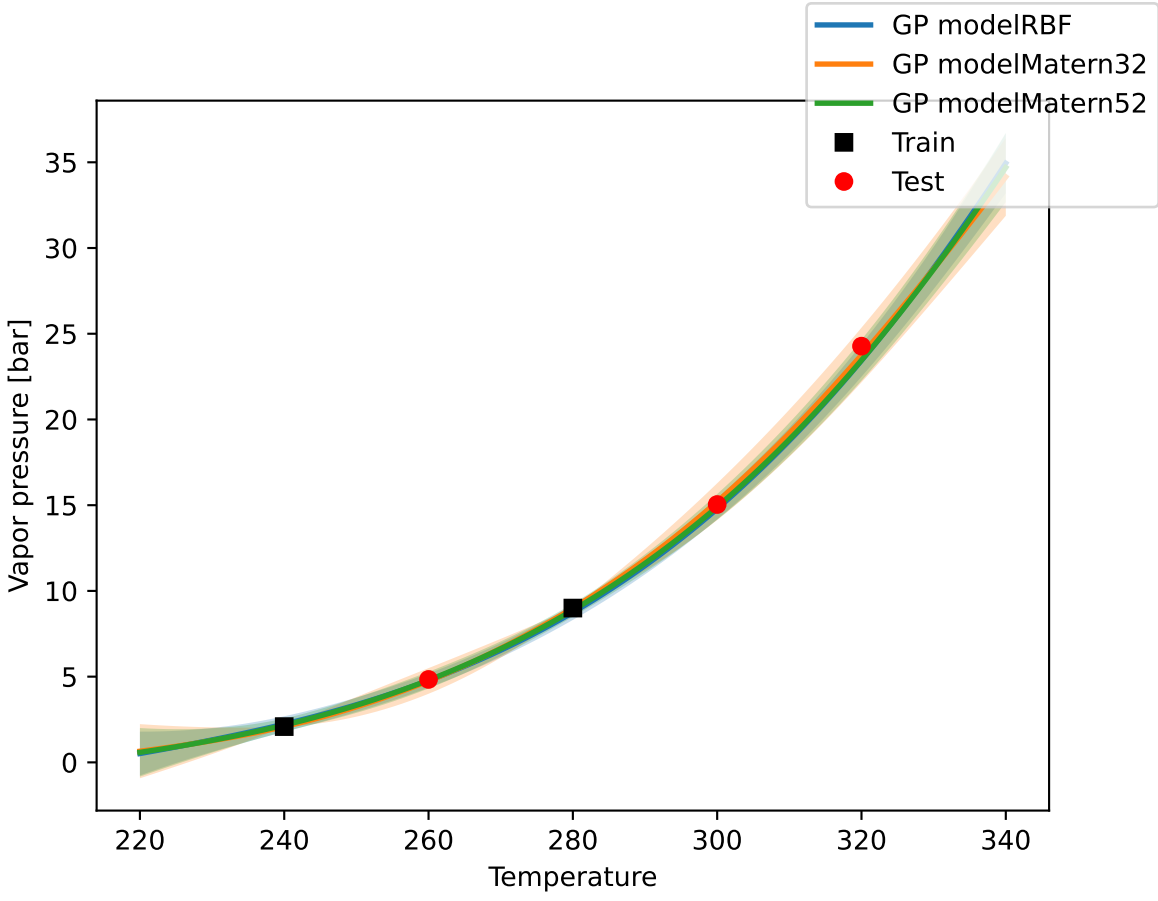
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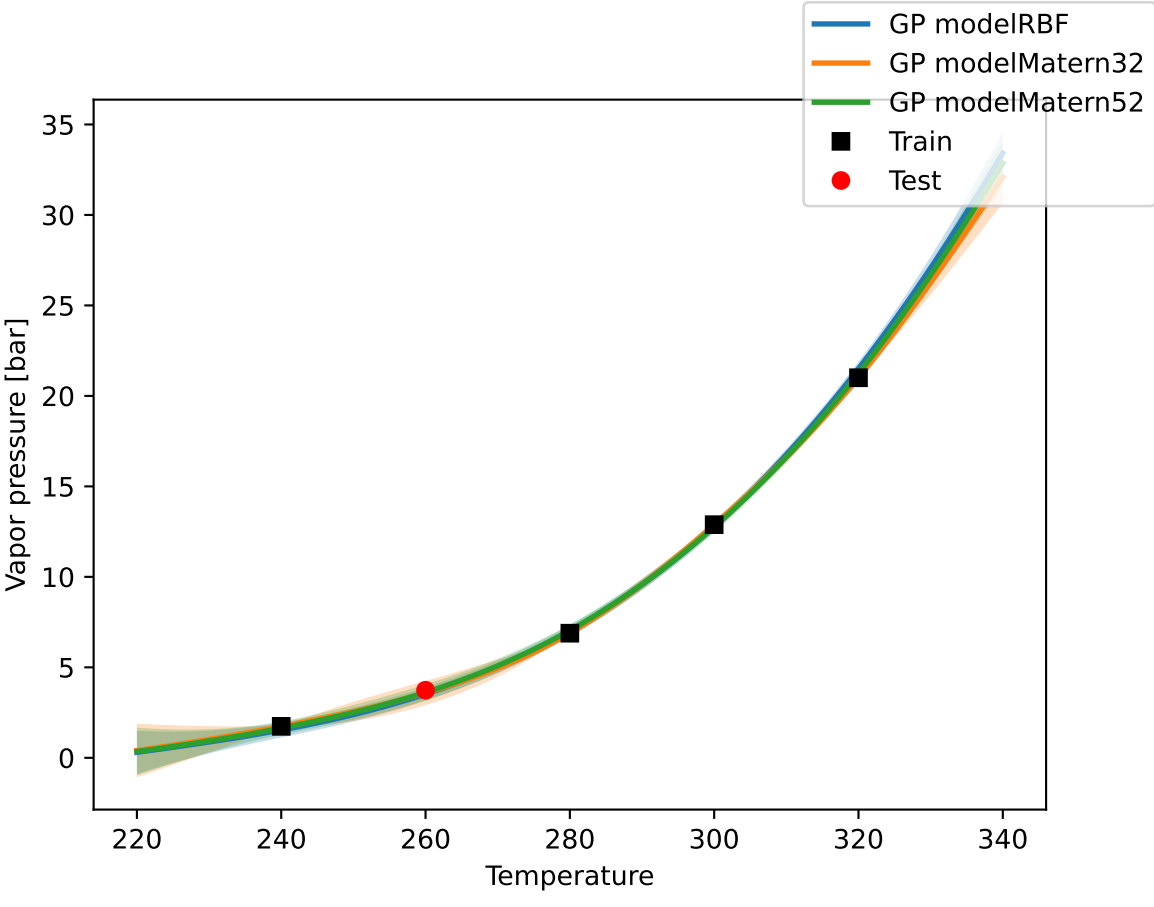
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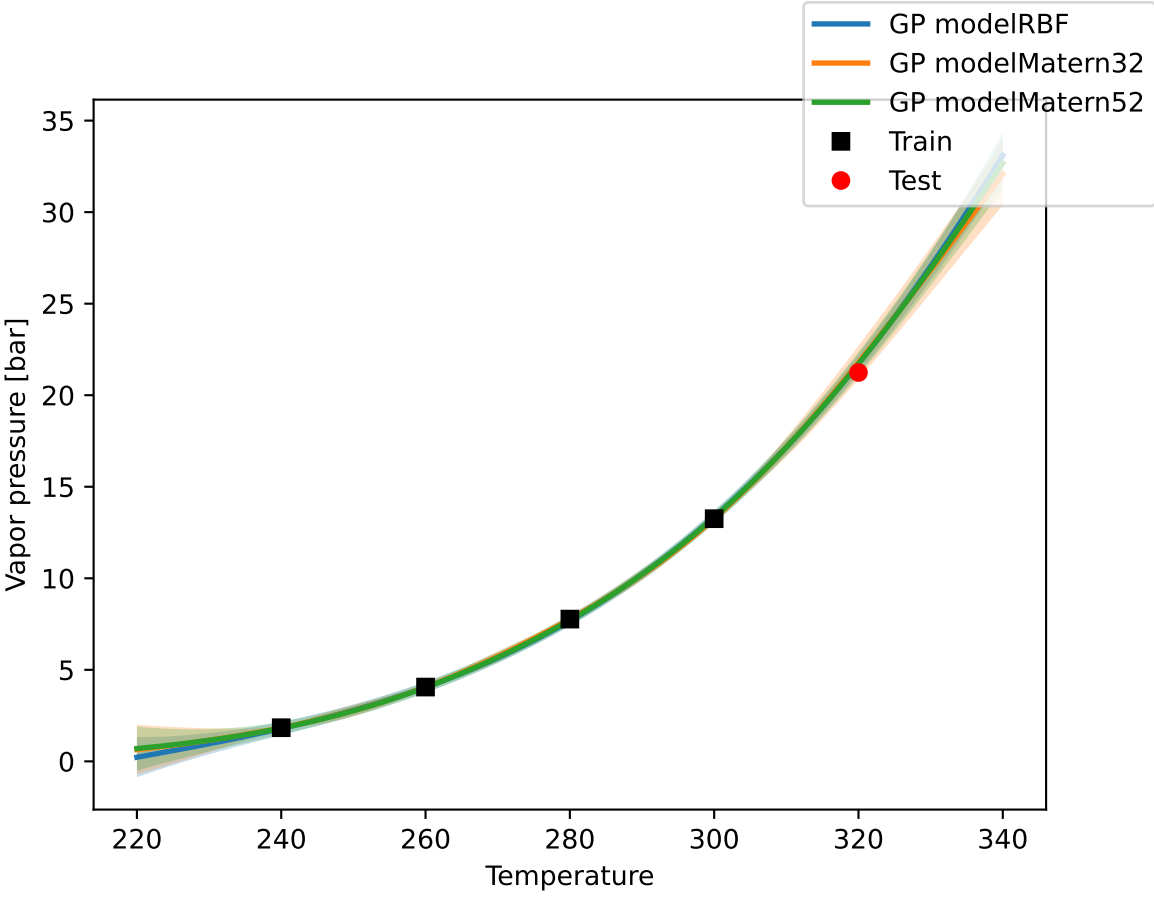
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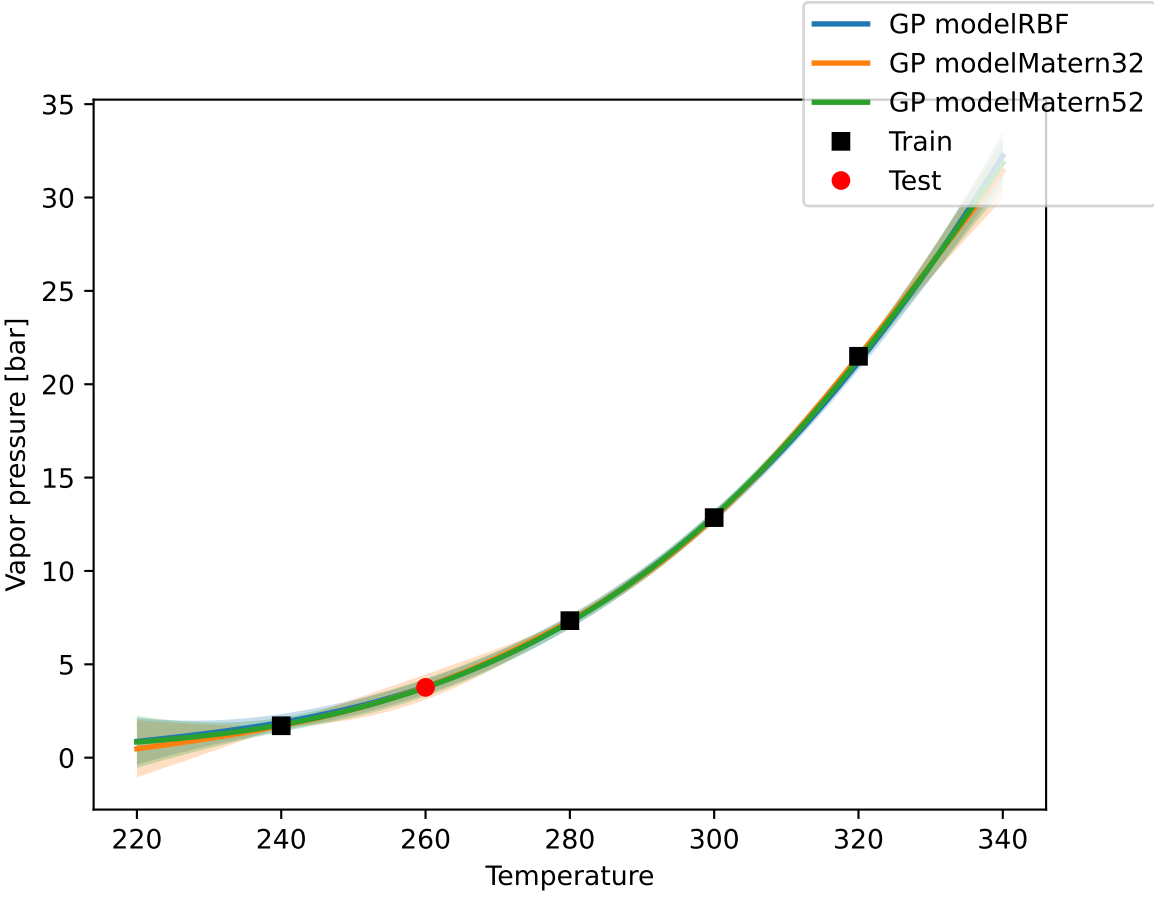
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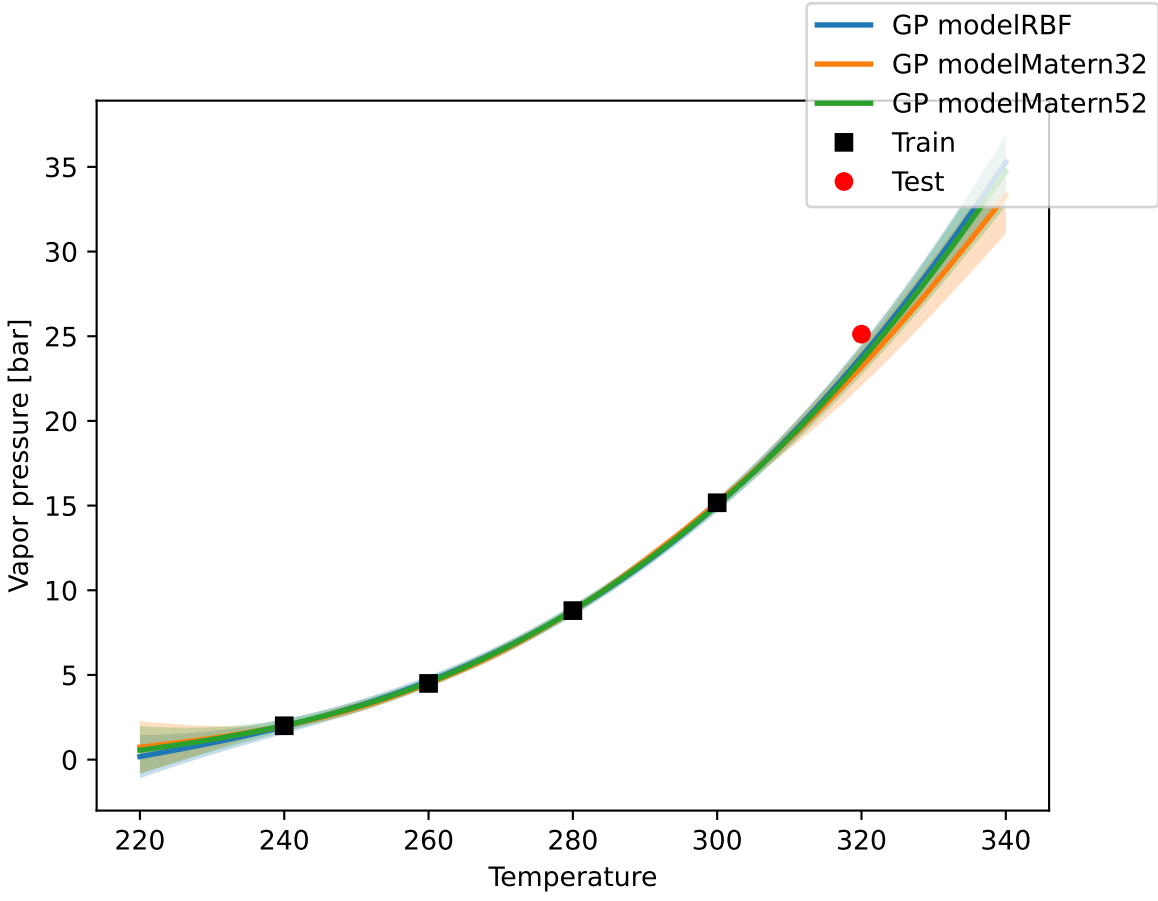
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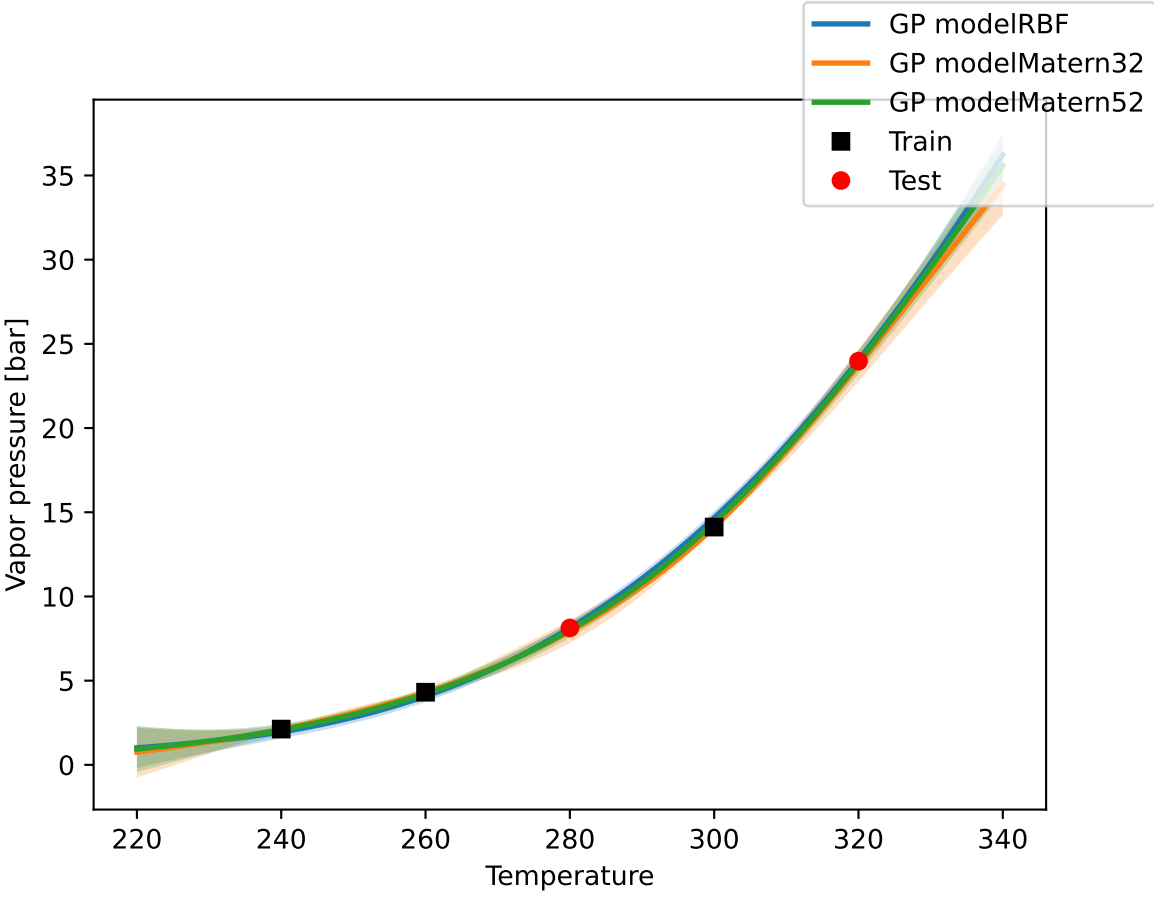
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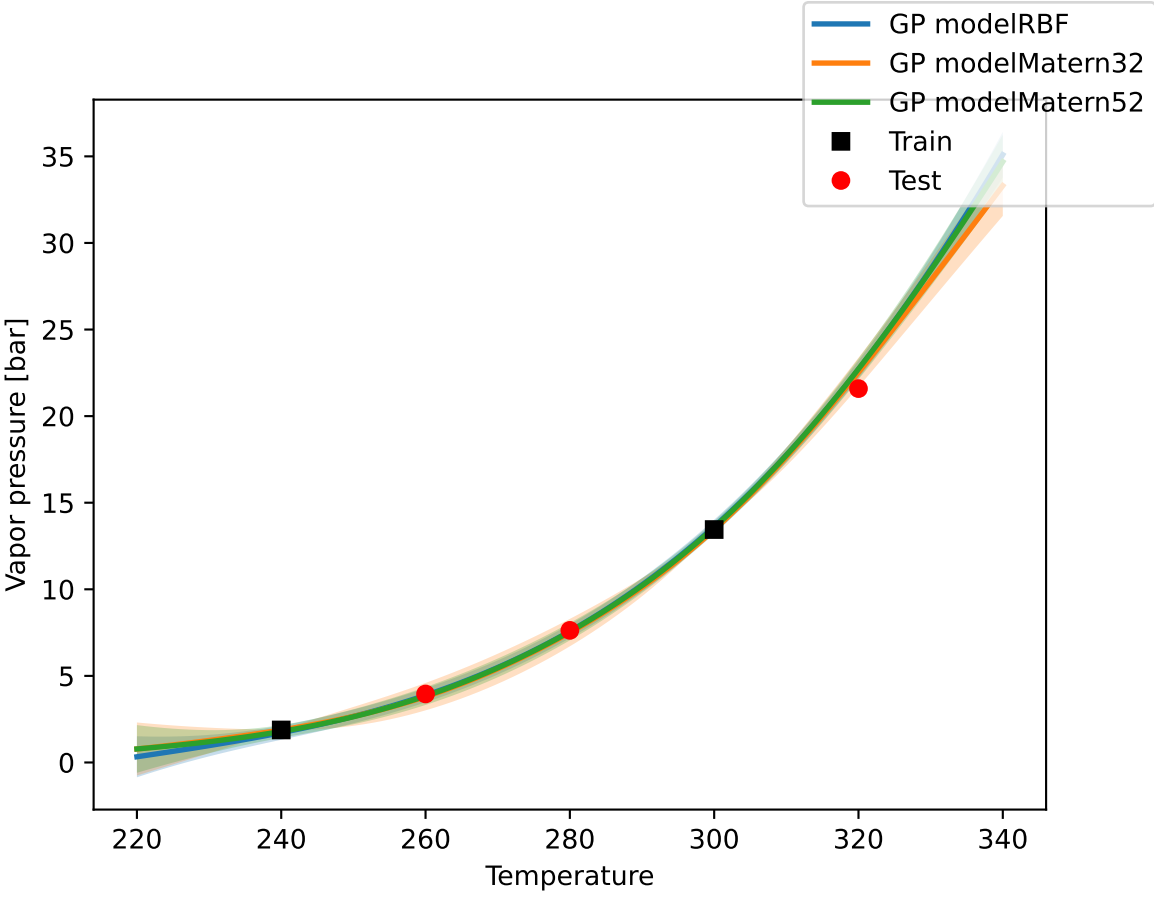
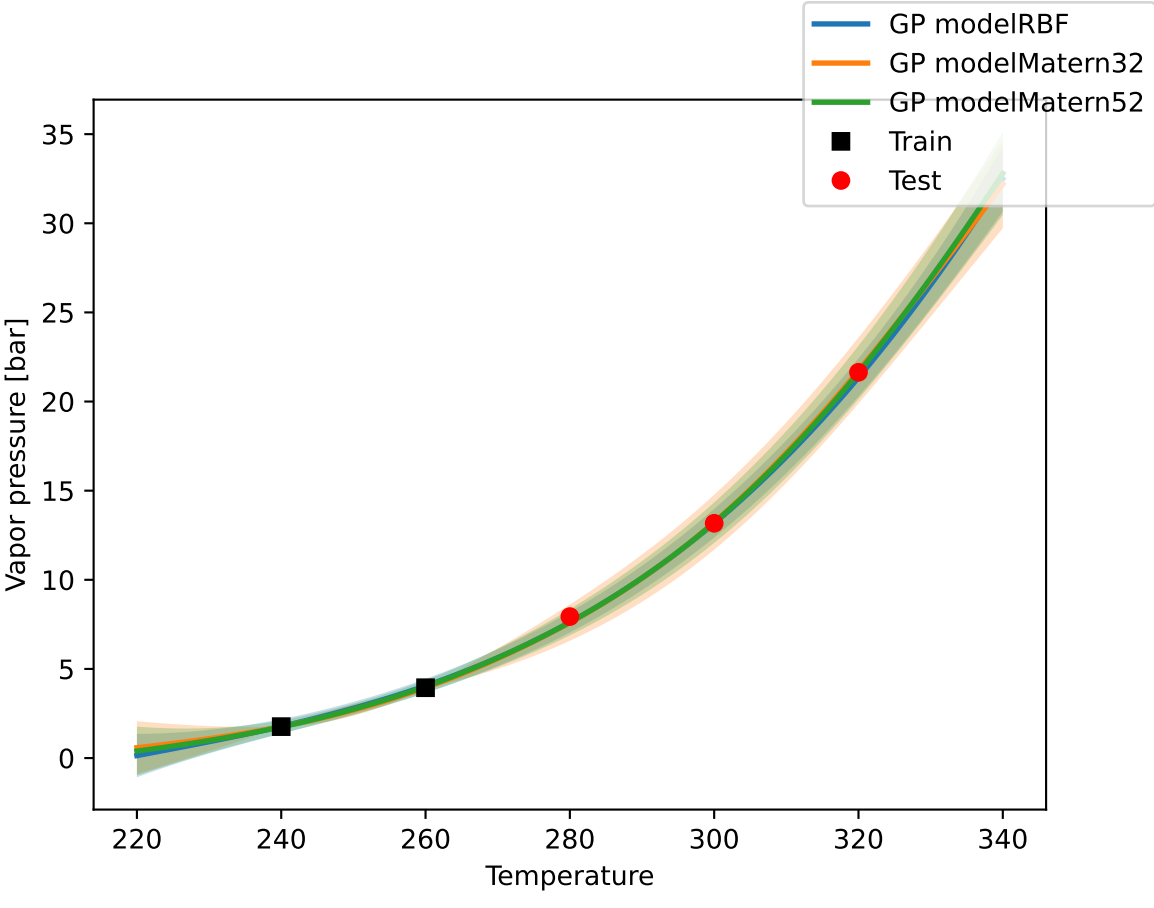
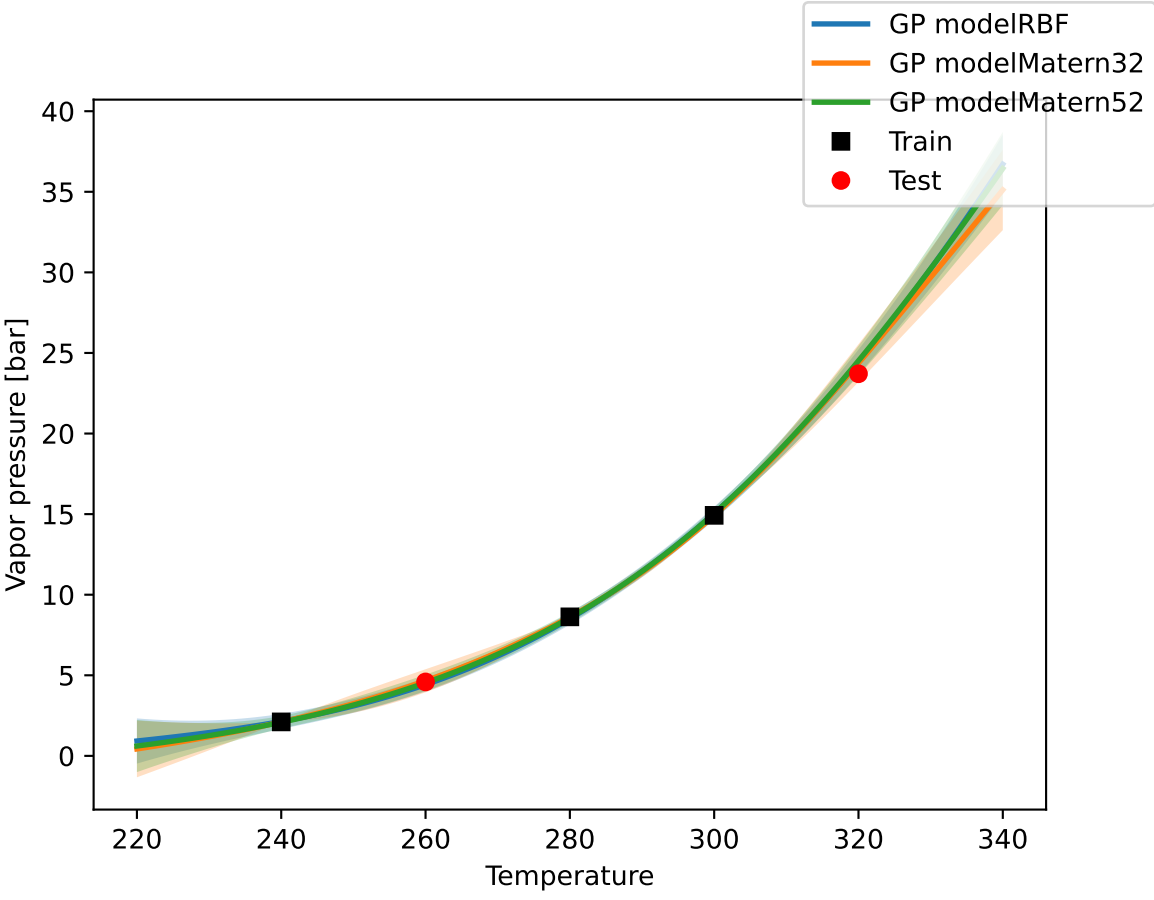
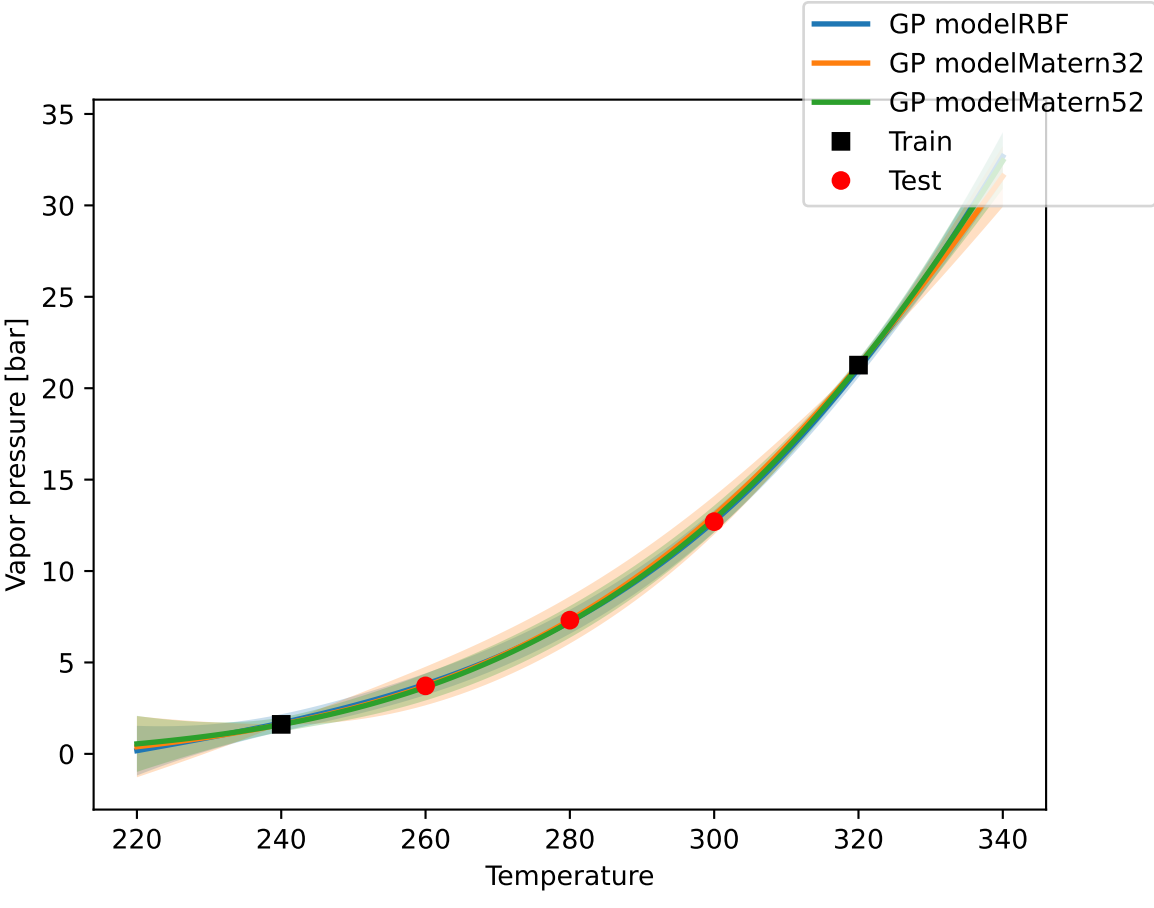
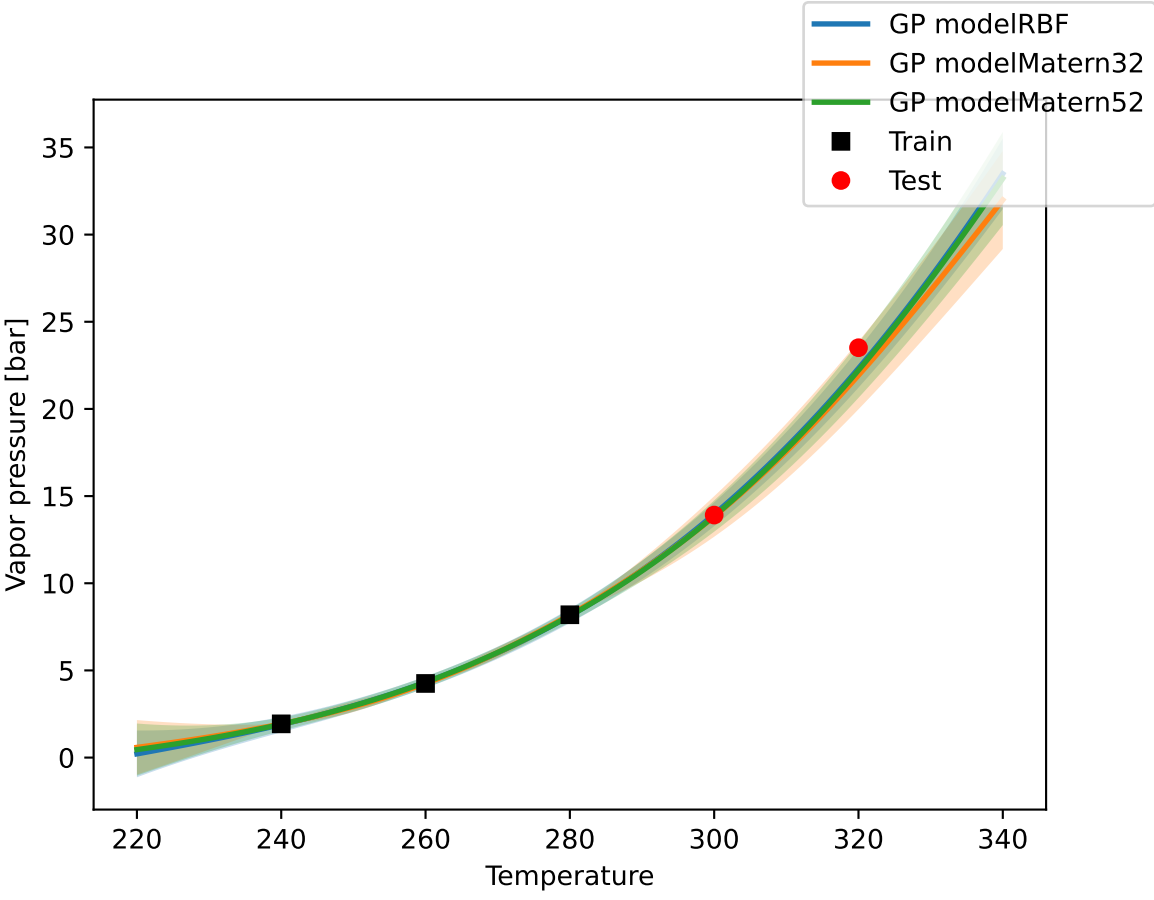
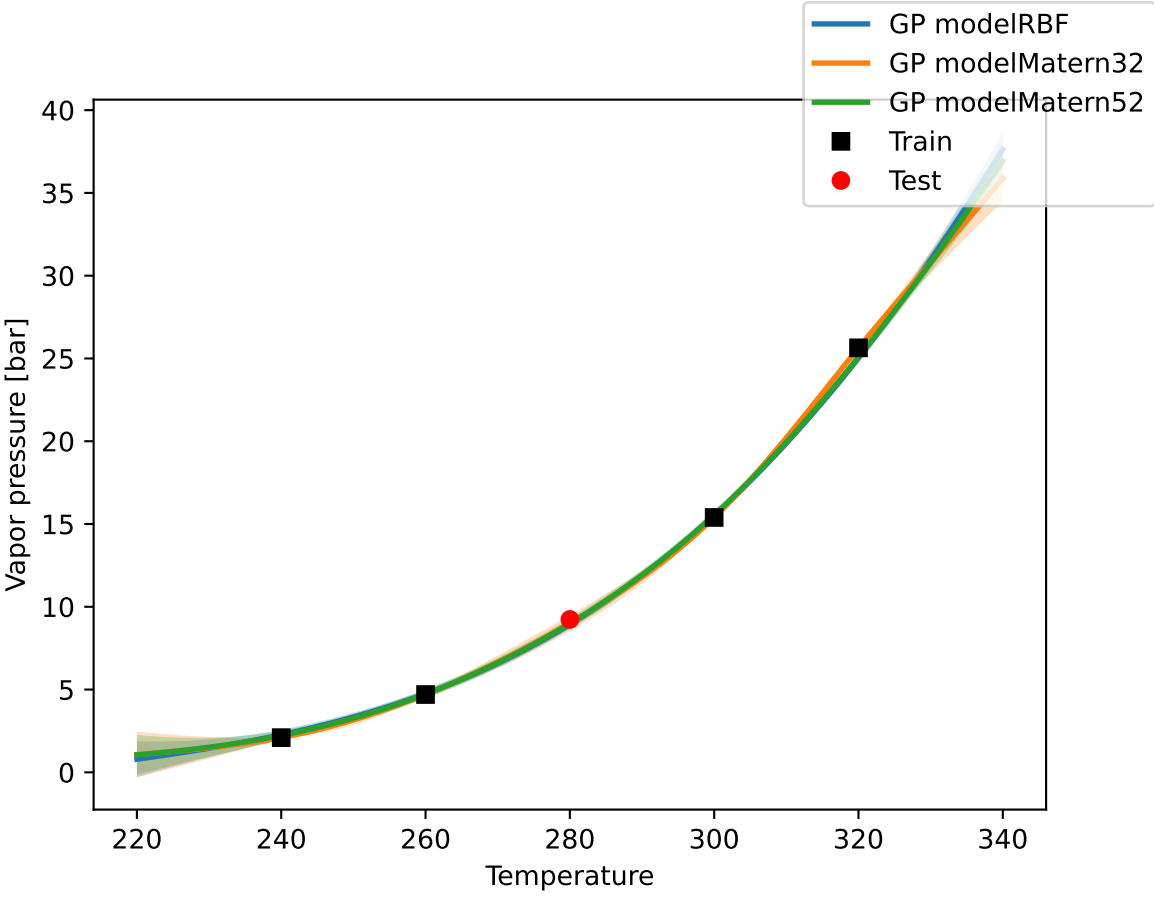

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

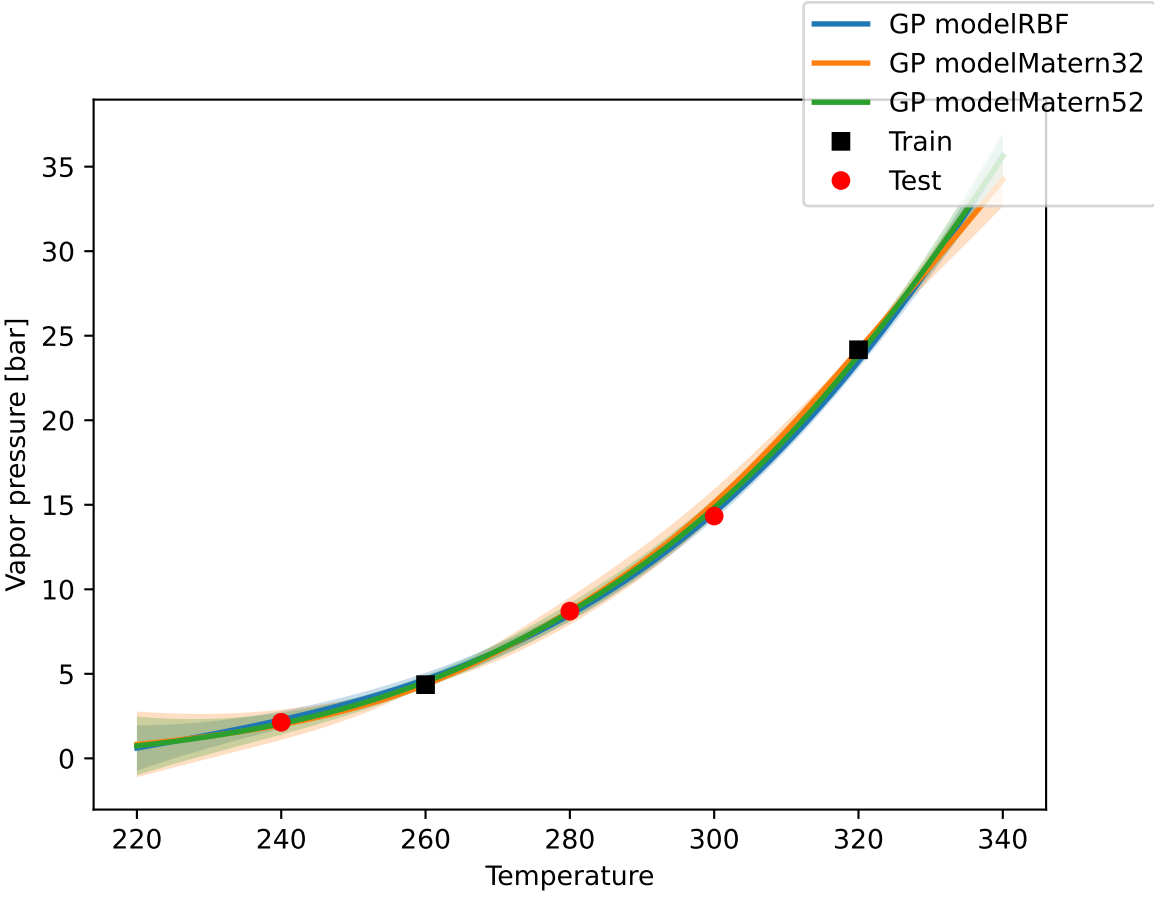

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

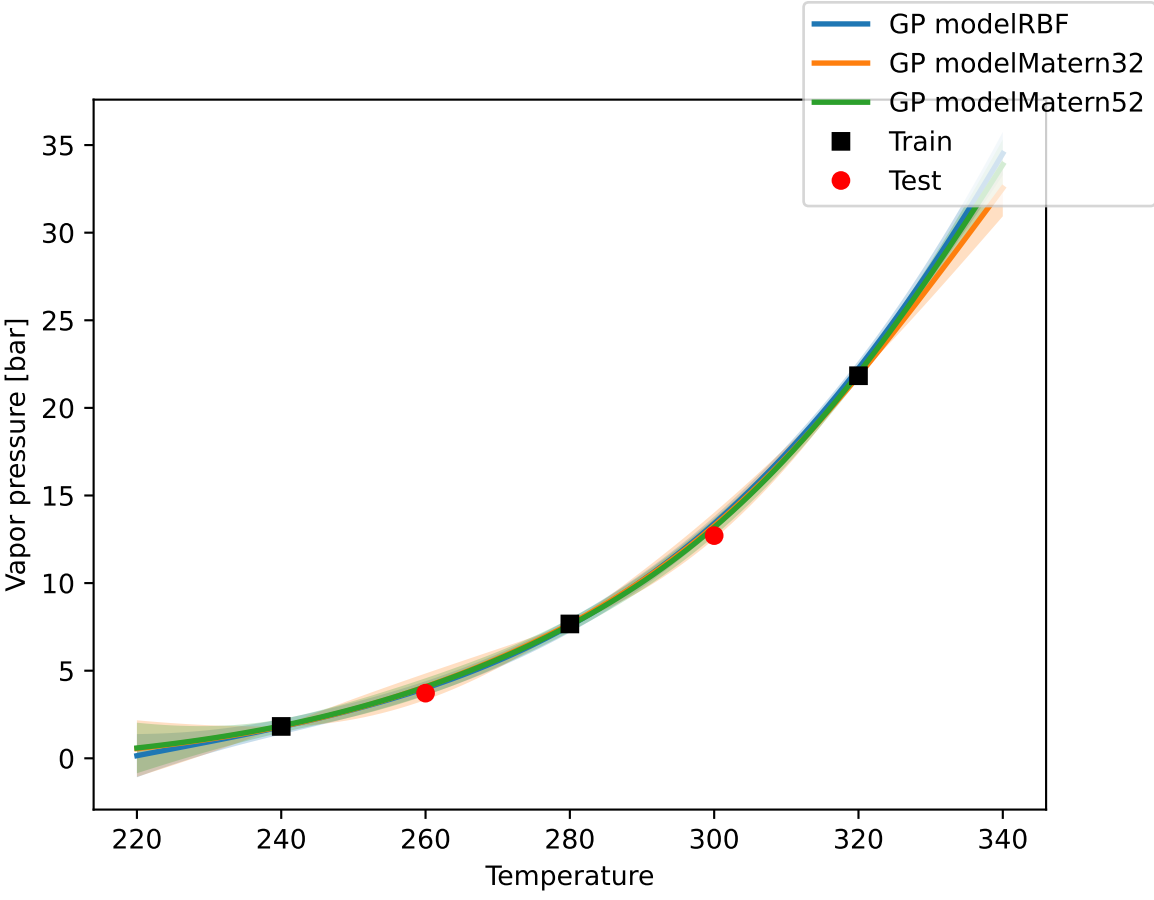

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
40
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

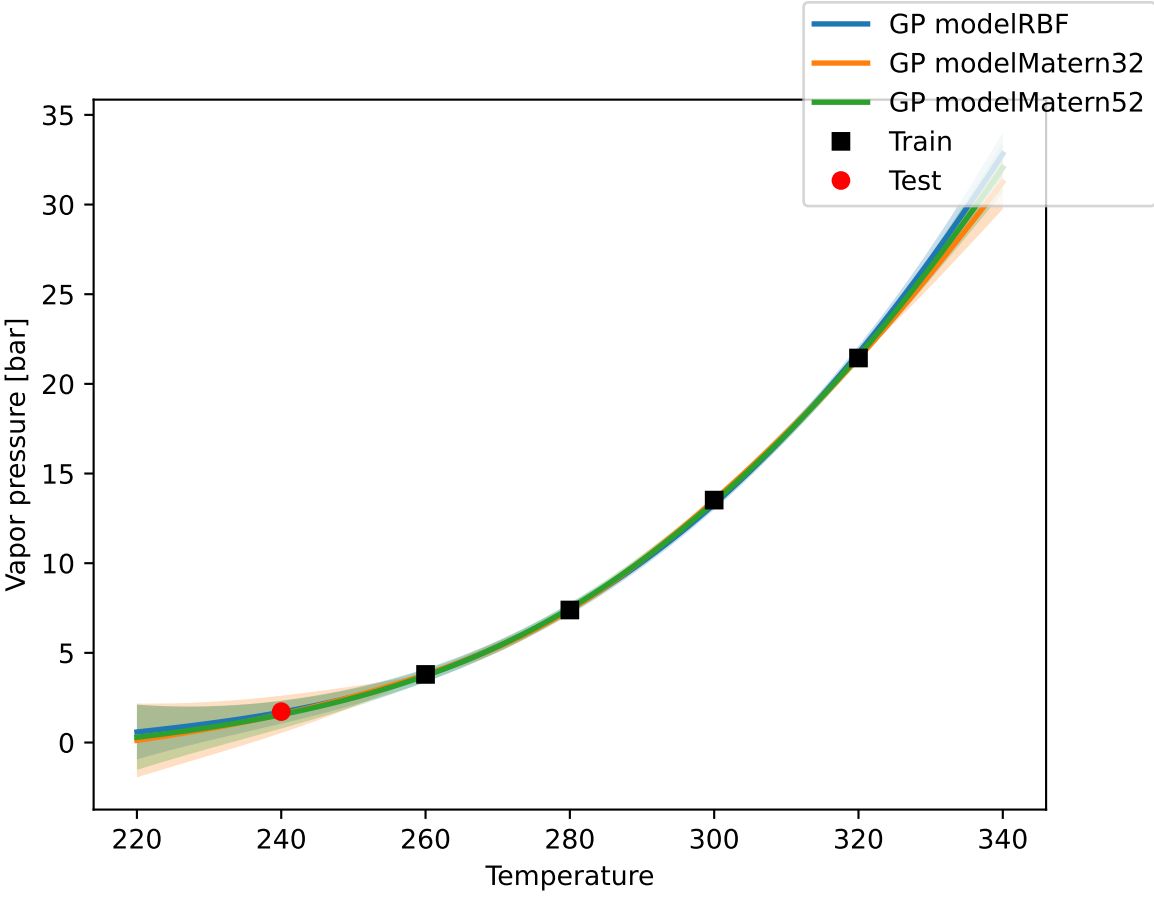

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

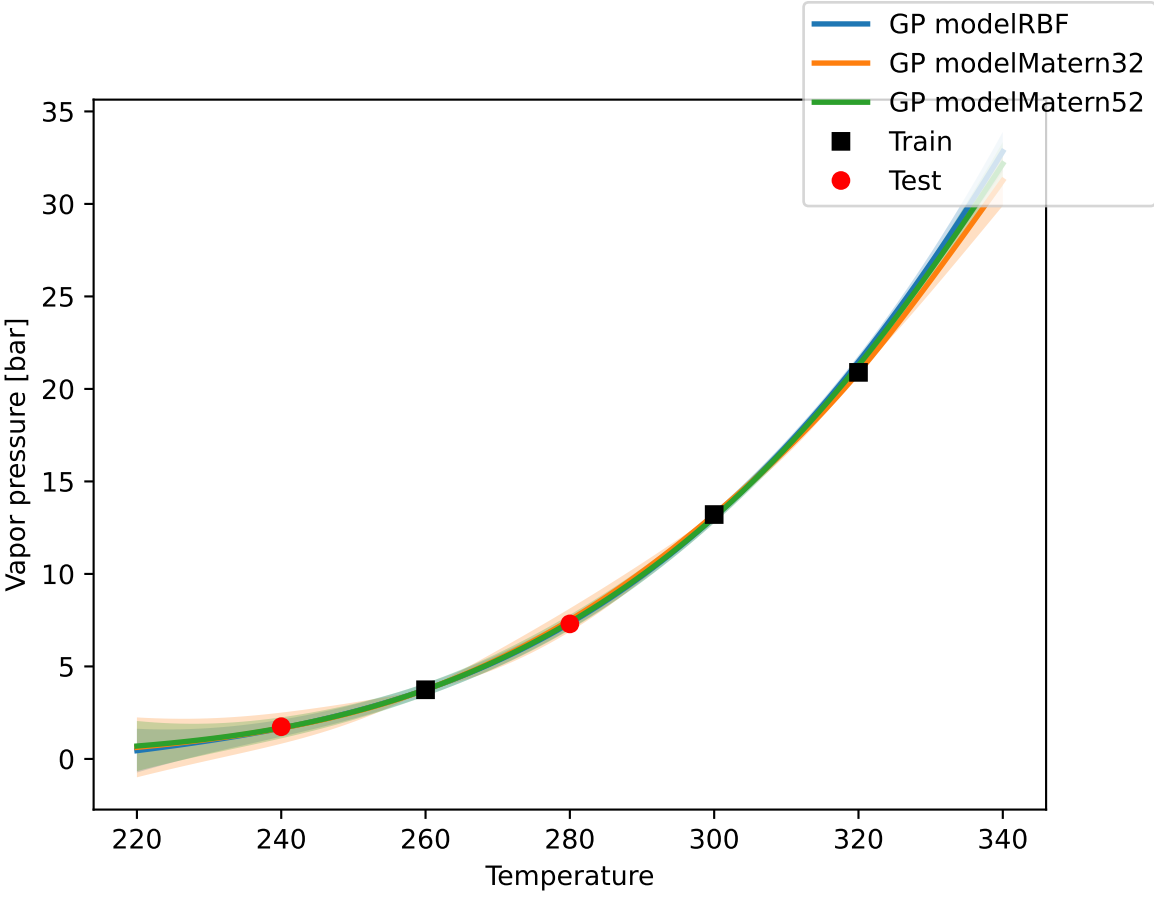

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

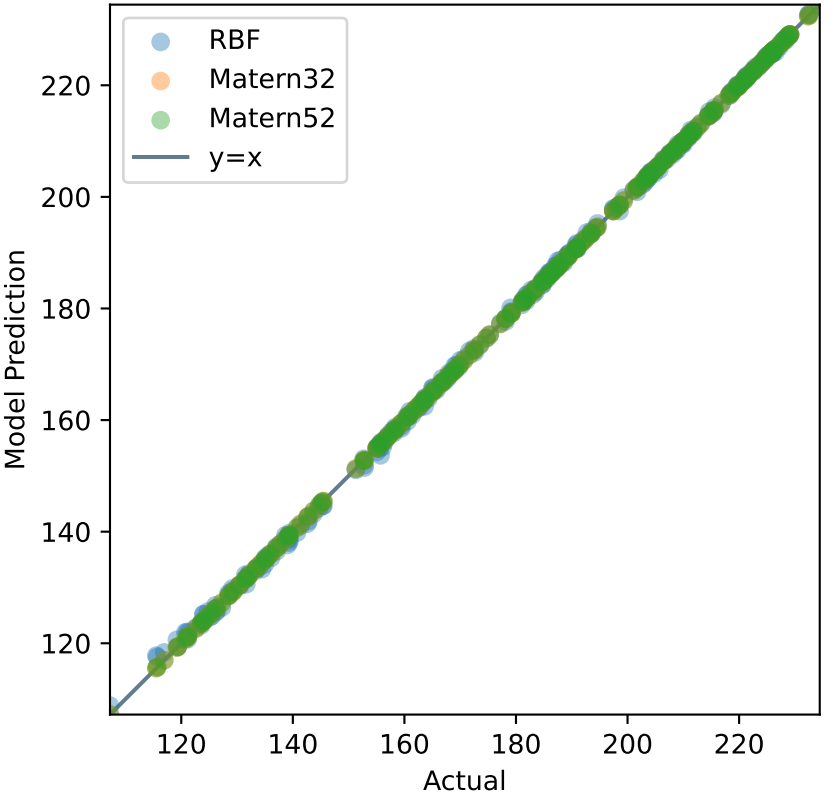

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
40
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

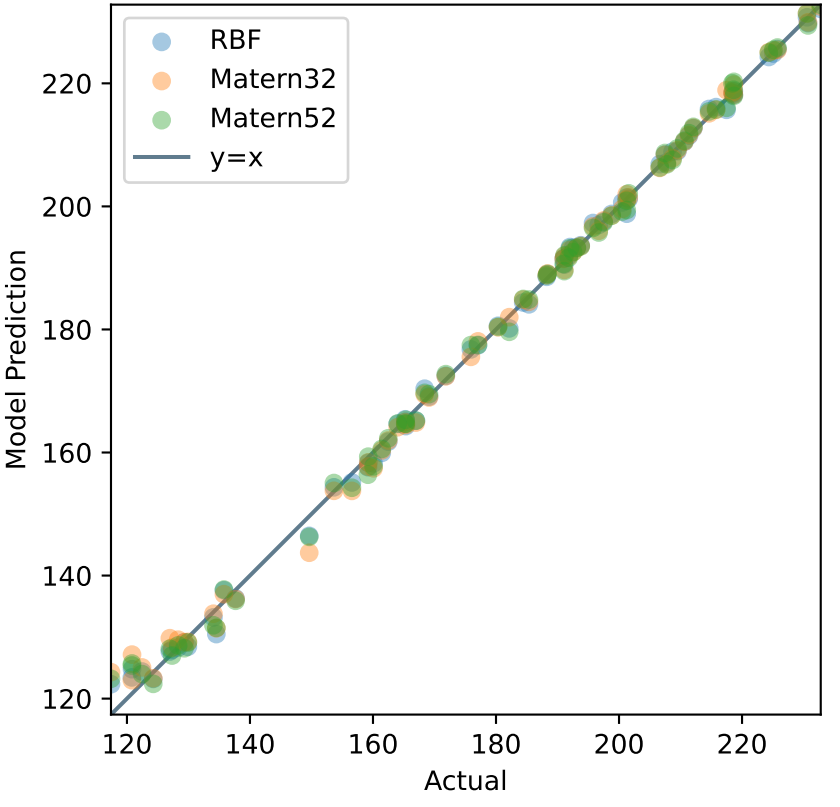

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

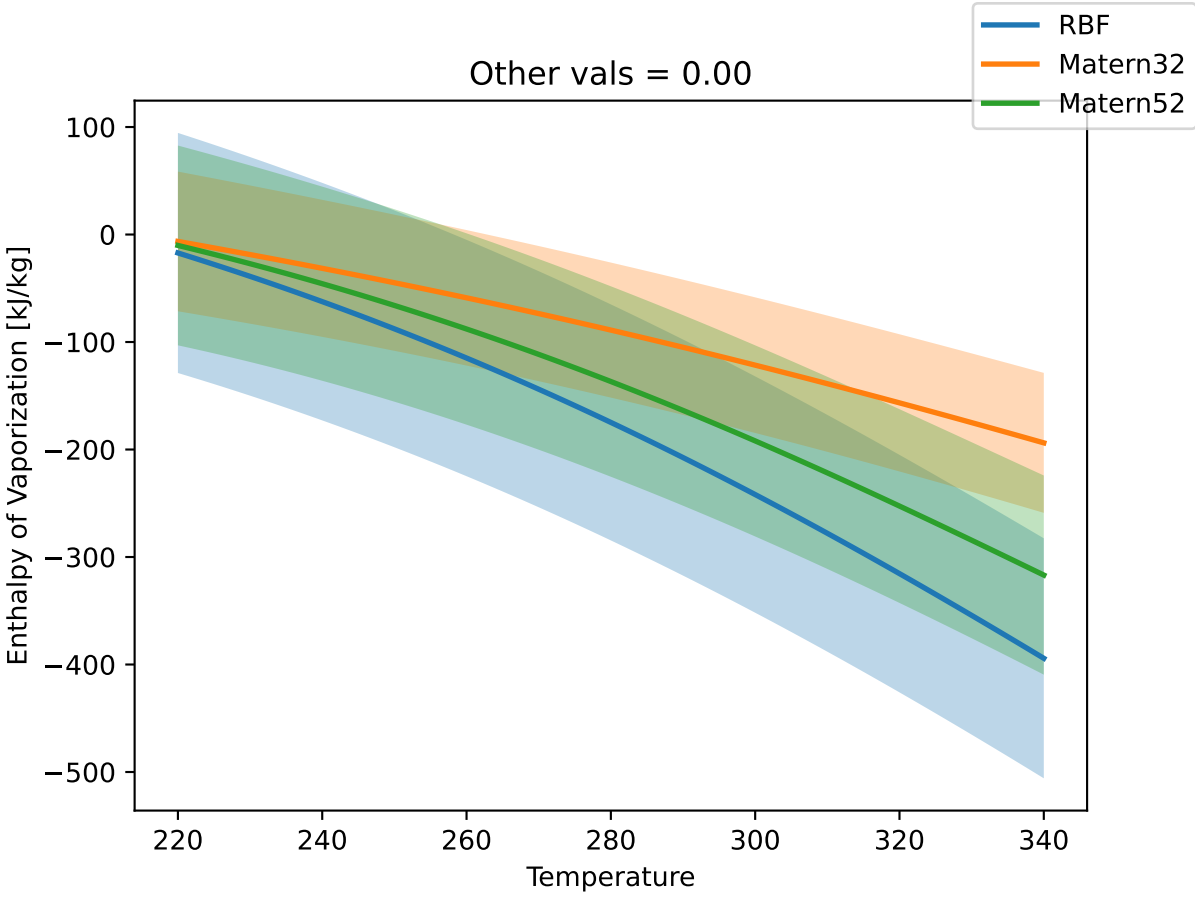

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

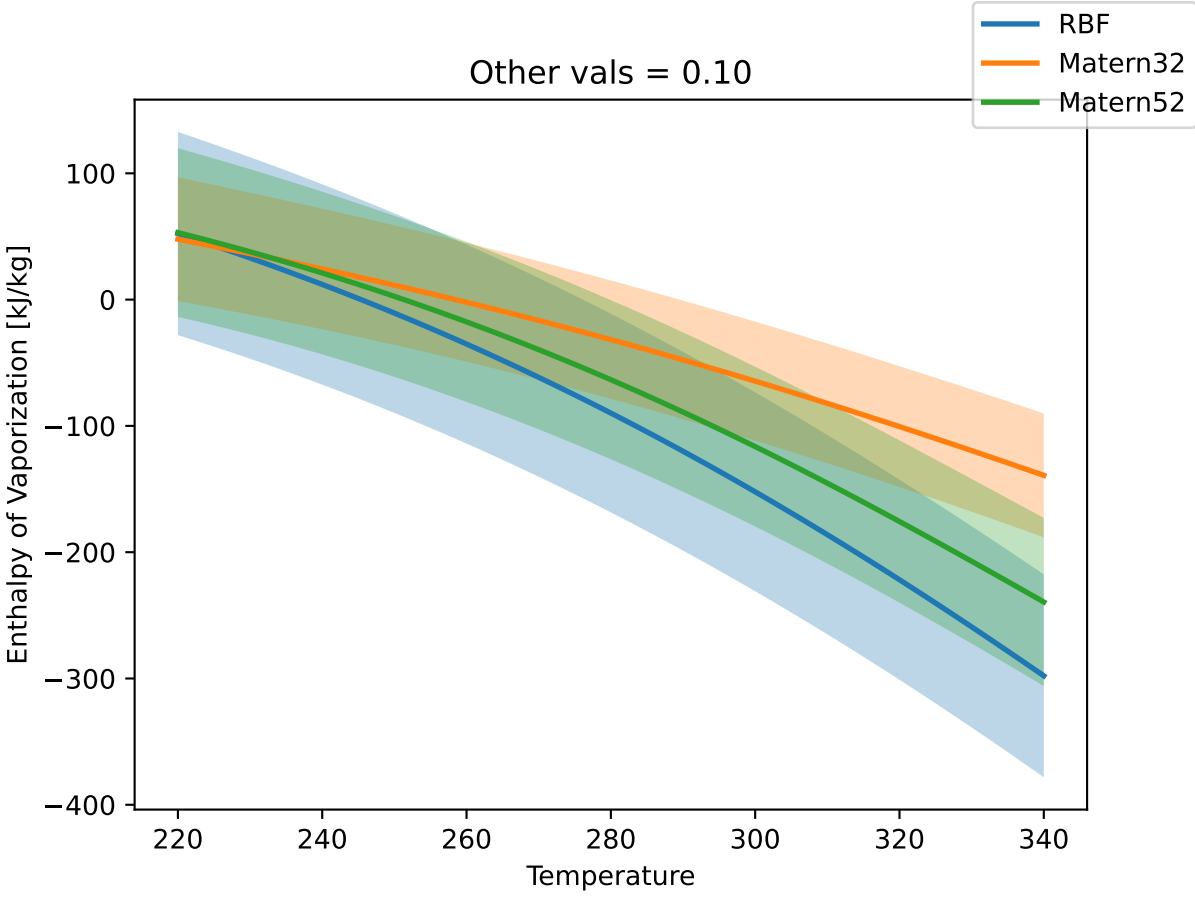

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

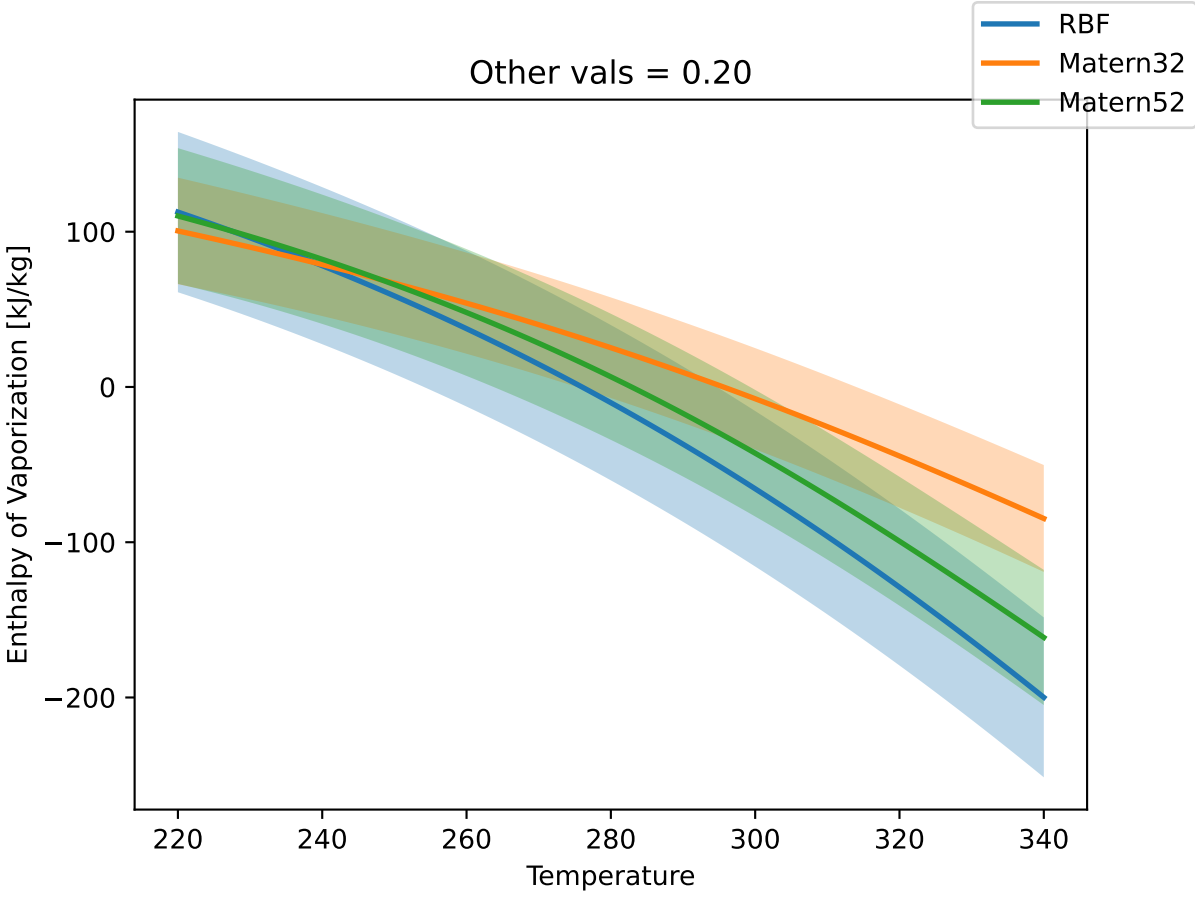

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Vapor pressure [bar]
Temperature
35
30
25
20
15
10
5
0
220
240
260
280
300
320
340

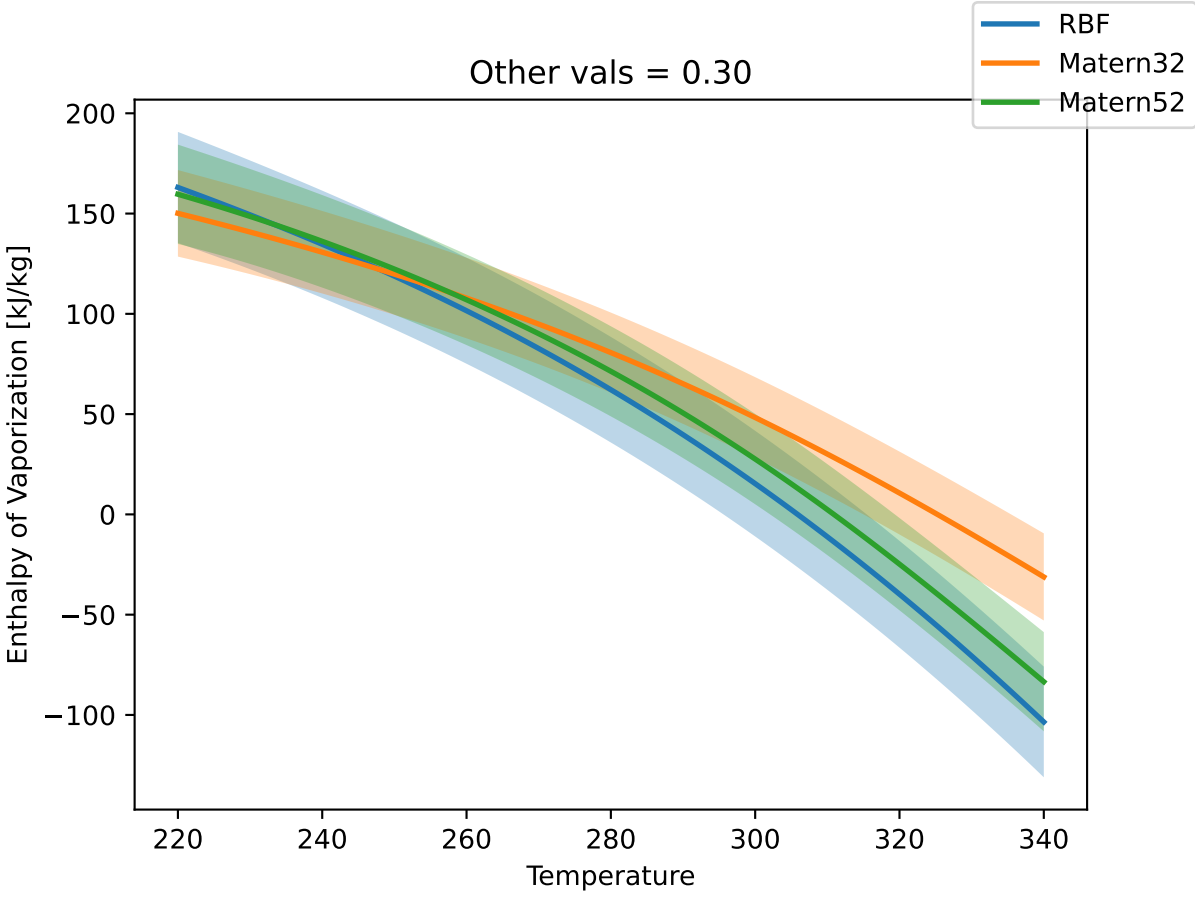

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
120
140
160
180
200
220

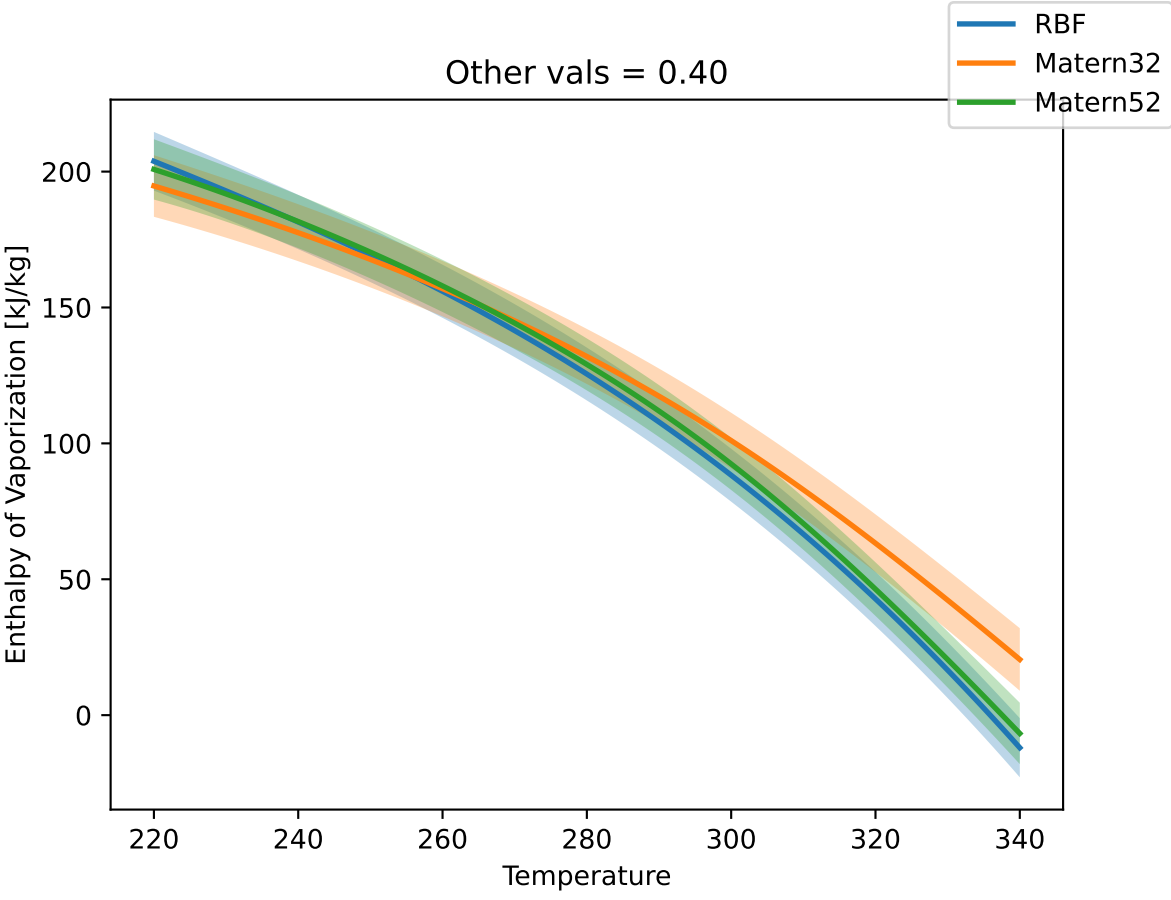

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
120
140
160
180
200
220

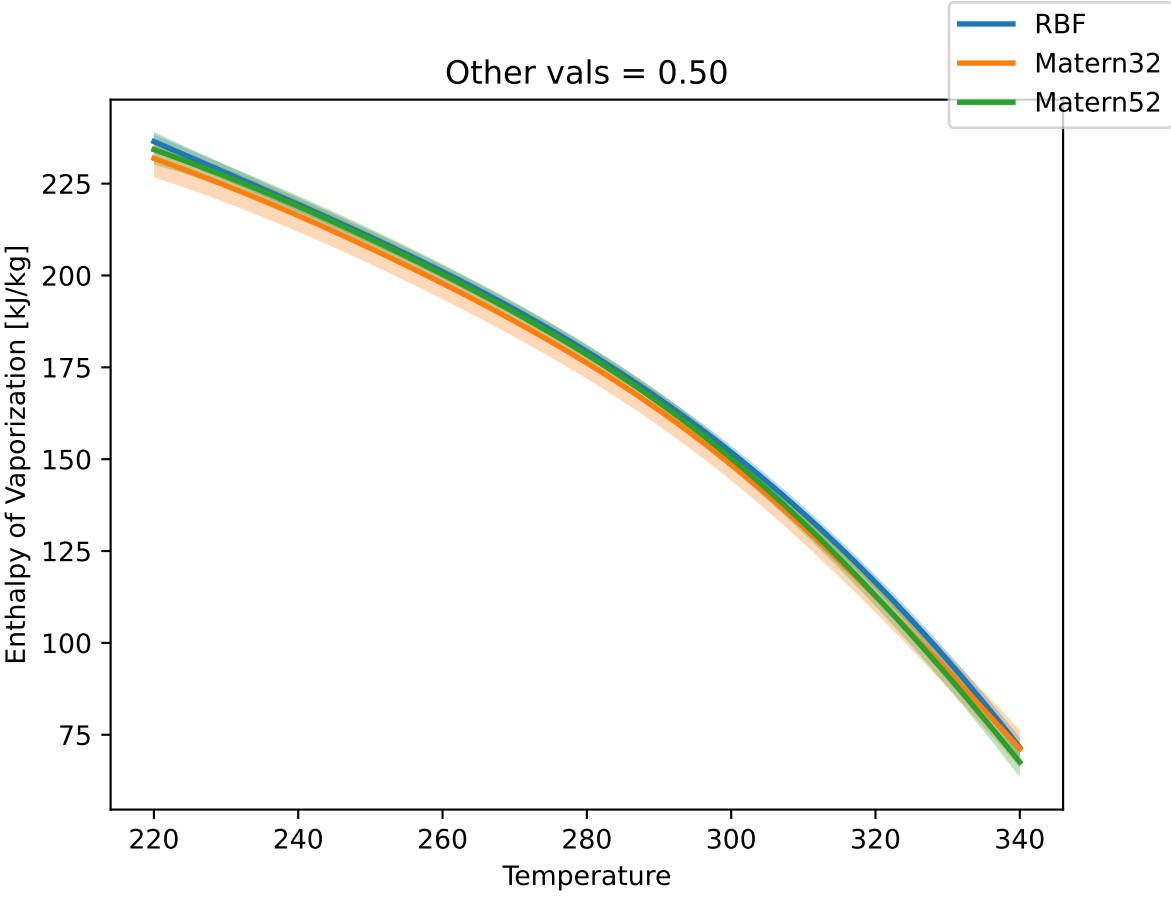

RBF
Matern32
Matern52
Other vals = 0.00
Enthalpy of Vaporization [kJ/kg]
100
0
−100
−200
−300
−400
−500
220
240
260
280
300
320
340
Temperature

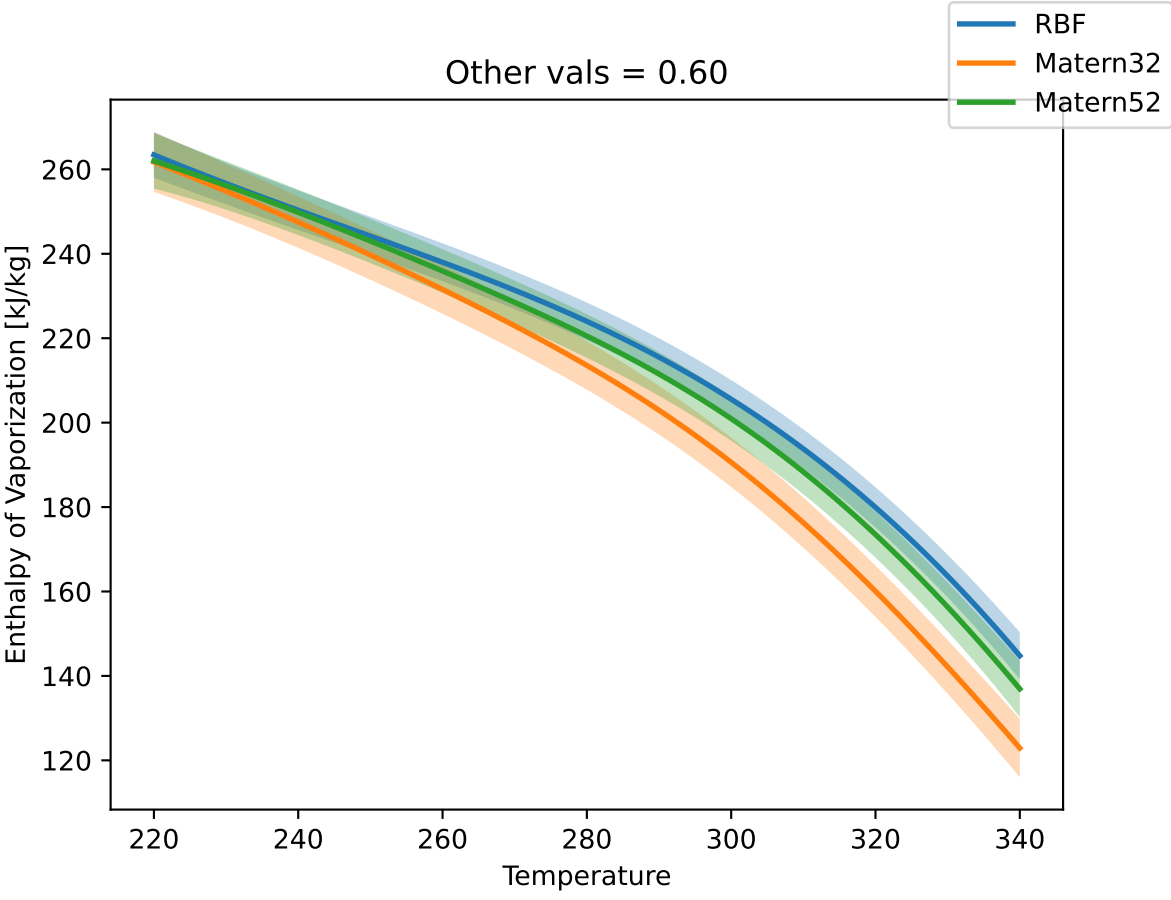

RBF
Matern32
Matern52
Other vals = 0.10
Enthalpy of Vaporization [kJ/kg]
100
0
−100
−200
−300
−400
220
240
260
280
300
320
340
Temperature

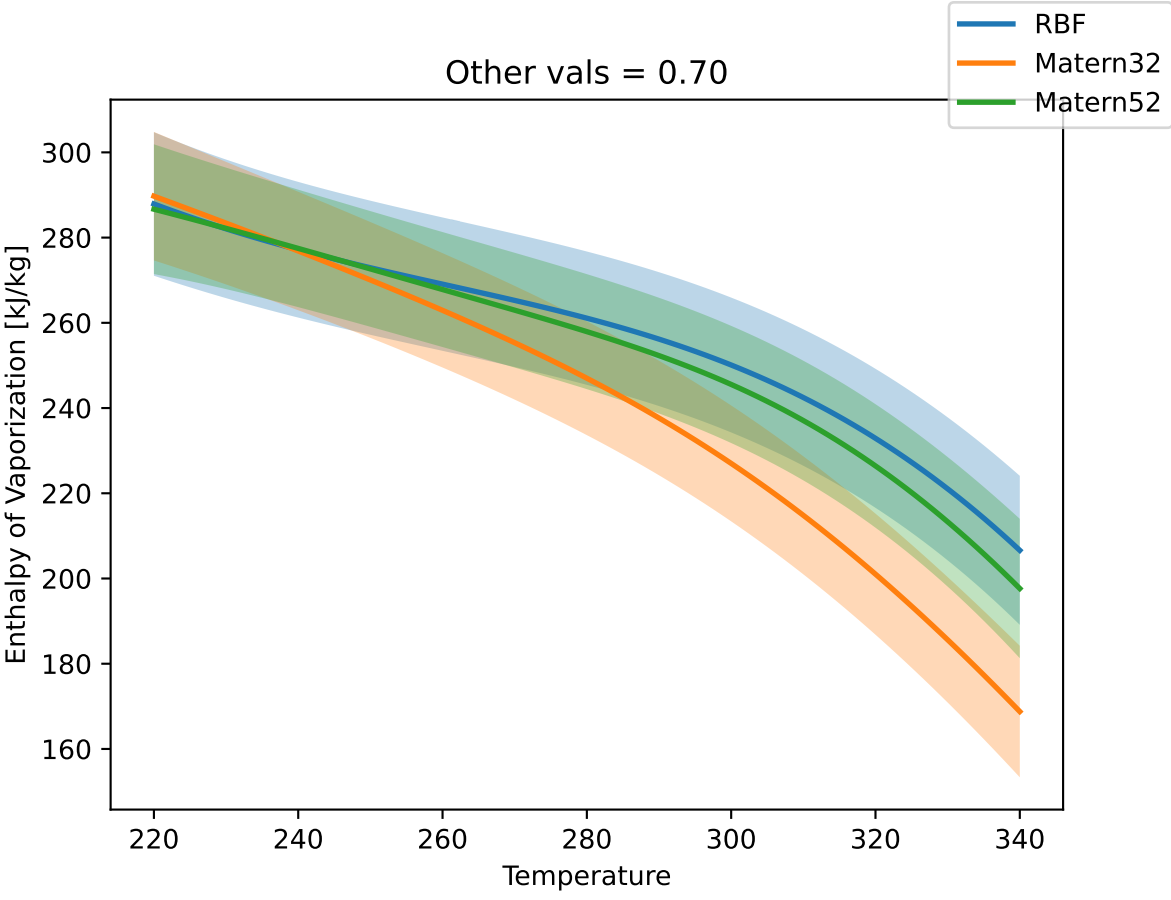

RBF
Matern32
Matern52
Other vals = 0.20
Enthalpy of Vaporization [kJ/kg]
100
0
−100
−200
220
240
260
280
300
320
340
Temperature

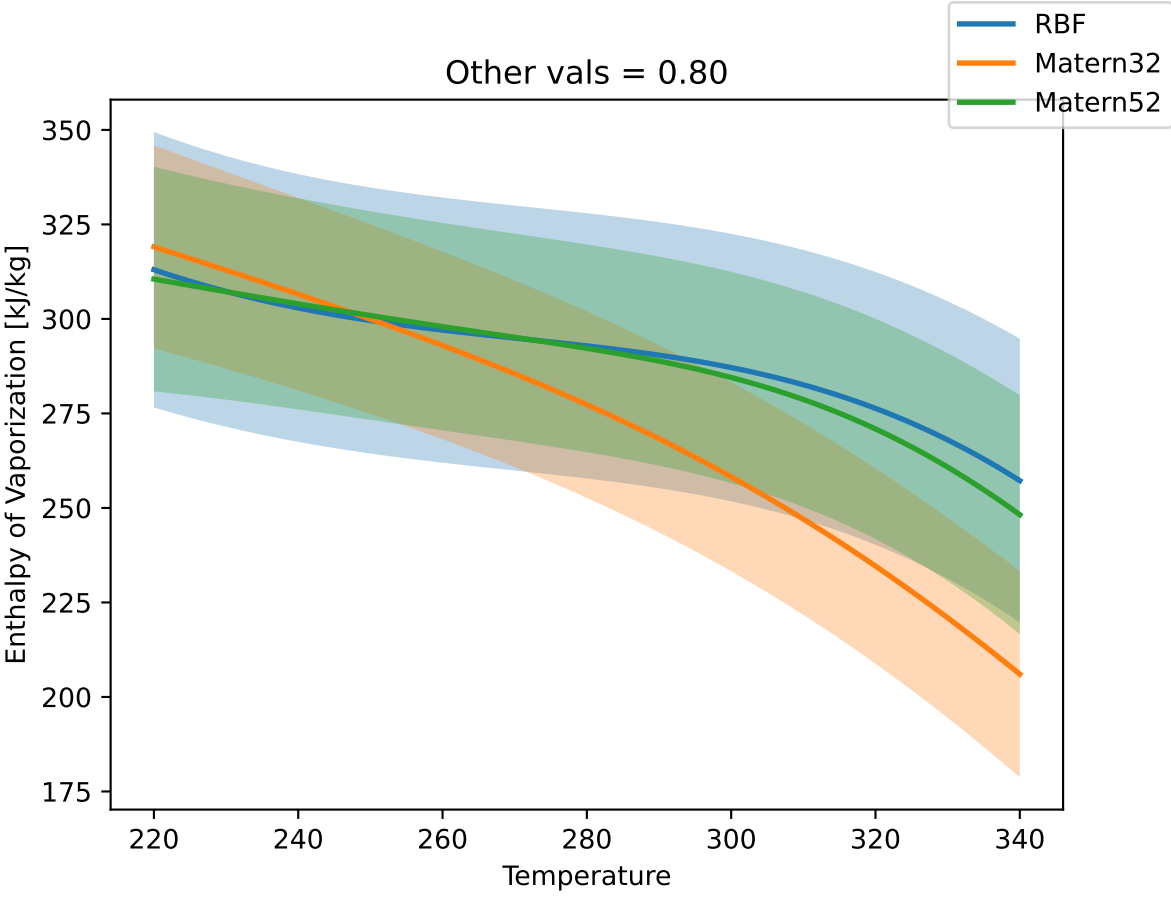

RBF
Matern32
Matern52
Other vals = 0.30
Enthalpy of Vaporization [kJ/kg]
Temperature
200
150
100
50
0
−50
−100
220
240
260
280
300
320
340

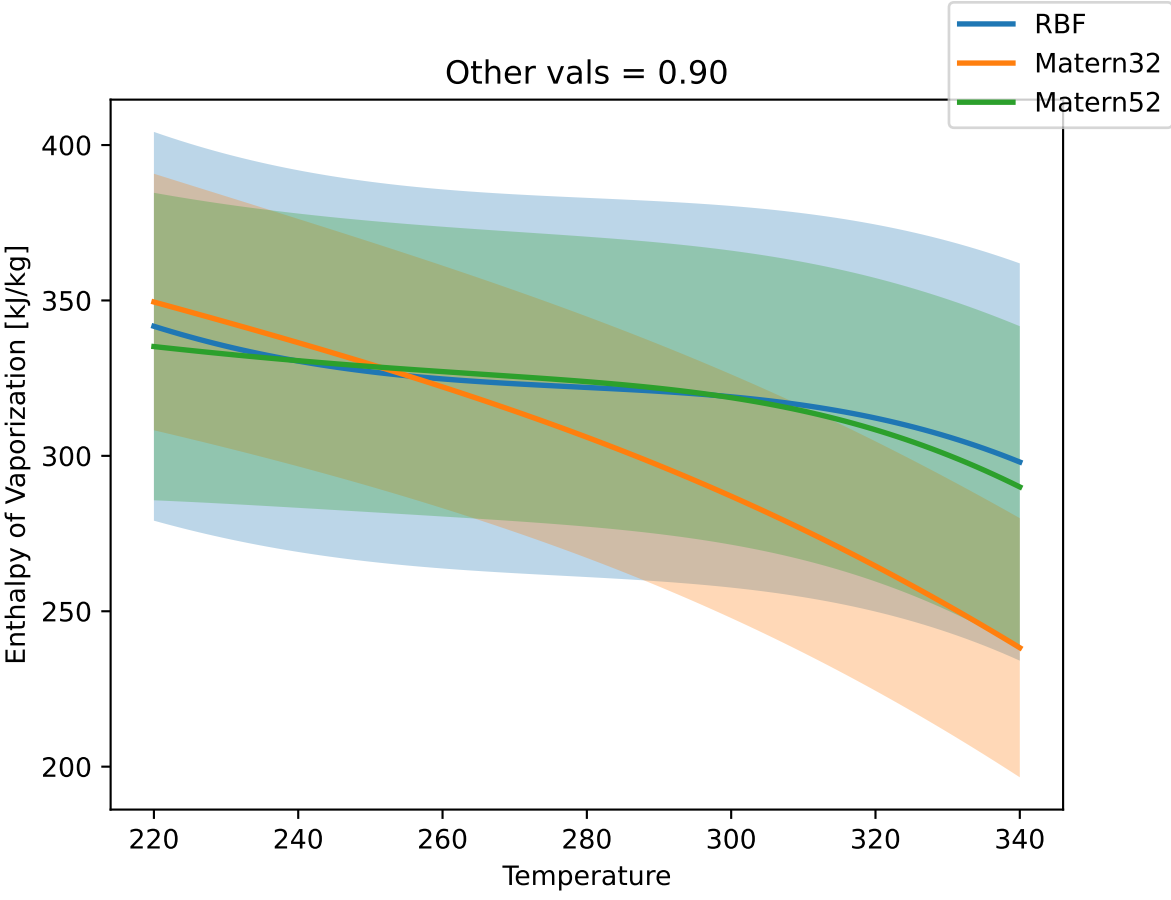

RBF
Matern32
Matern52
Other vals = 0.40
Enthalpy of Vaporization [kJ/kg]
200
150
100
50
0
220
240
260
280
300
320
340
Temperature

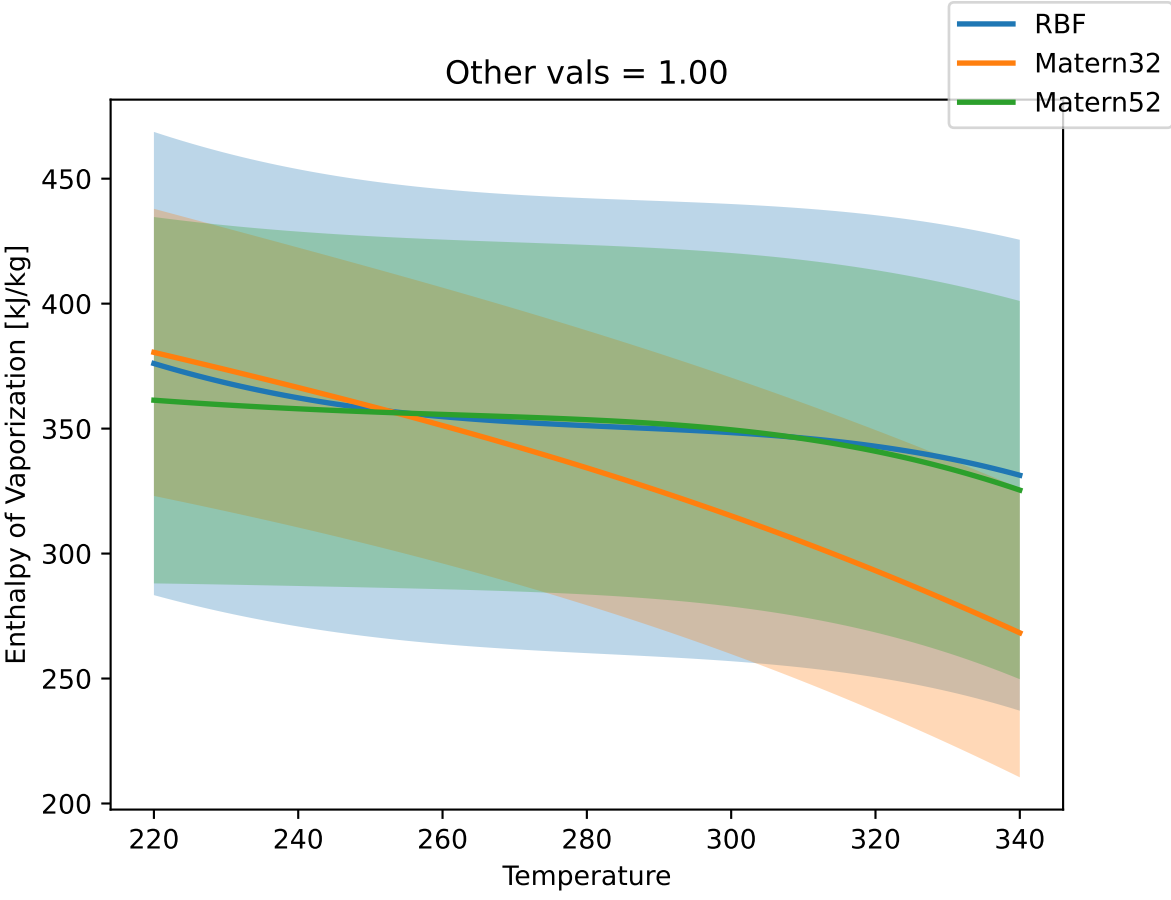

RBF
Matern32
Matern52
Other vals = 0.50
Enthalpy of Vaporization [kJ/kg]
225
200
175
150
125
100
75
220
240
260
280
300
320
340
Temperature

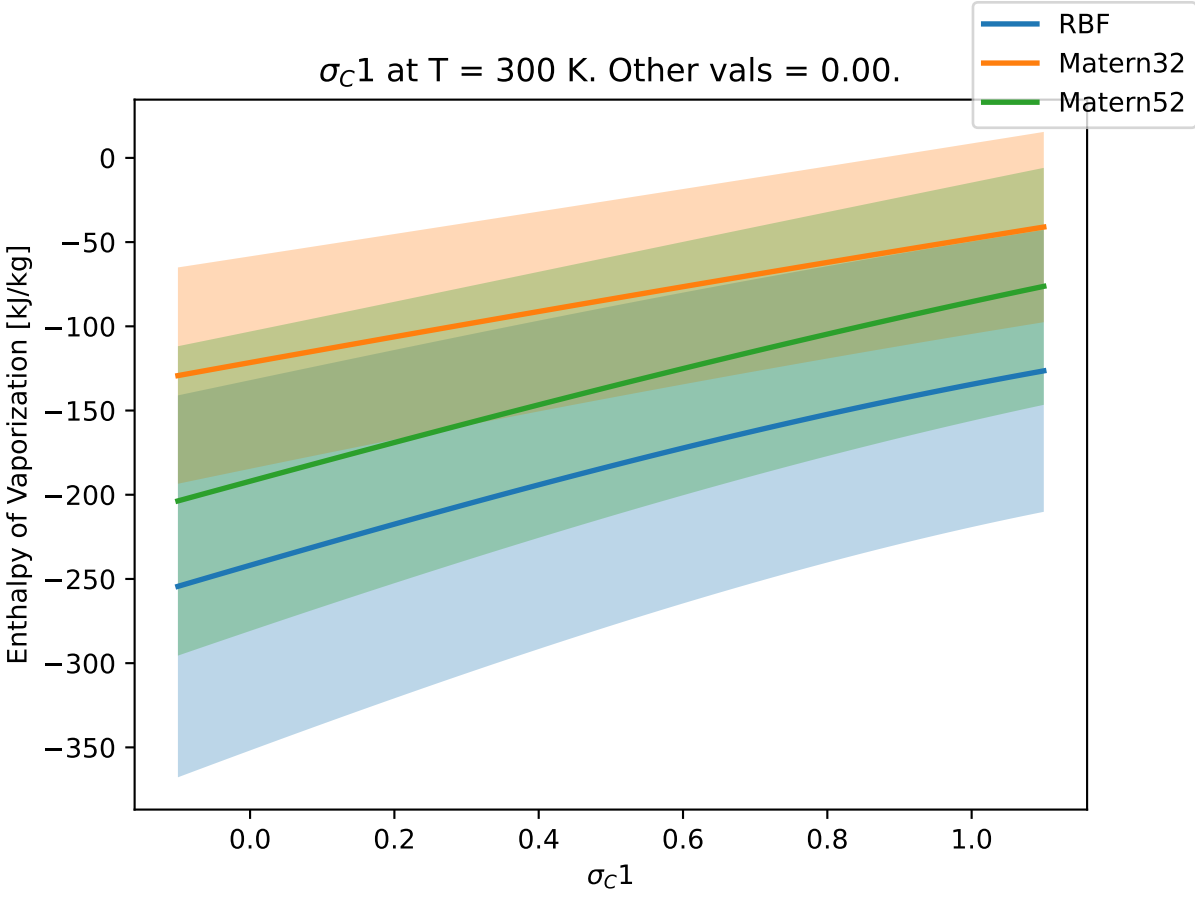

RBF
Matern32
Matern52
Other vals = 0.60
Enthalpy of Vaporization [kJ/kg]
260
240
220
200
180
160
140
120
220
240
260
280
300
320
340
Temperature

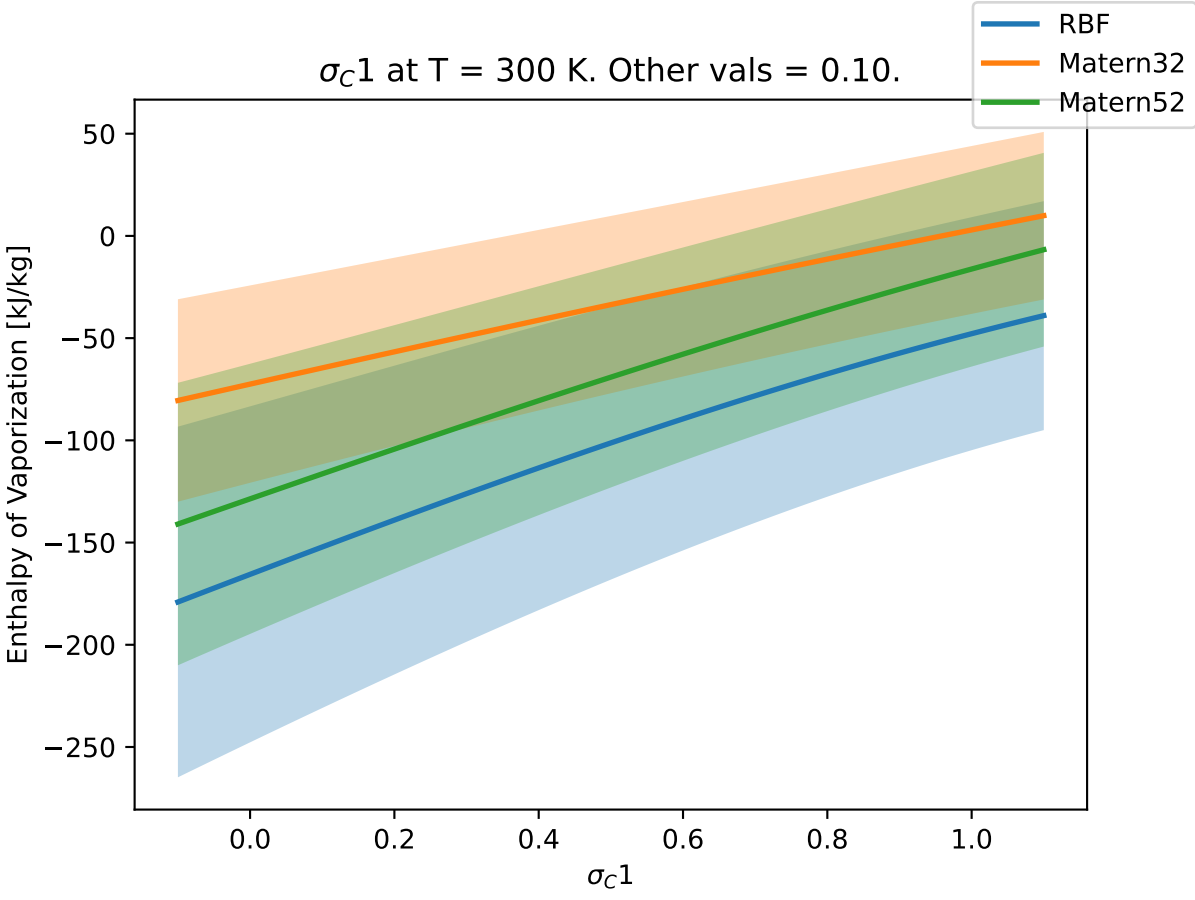

RBF
Matern32
Matern52
Other vals = 0.70
Enthalpy of Vaporization [kJ/kg]
300
280
260
240
220
200
180
160
220
240
260
280
300
320
340
Temperature

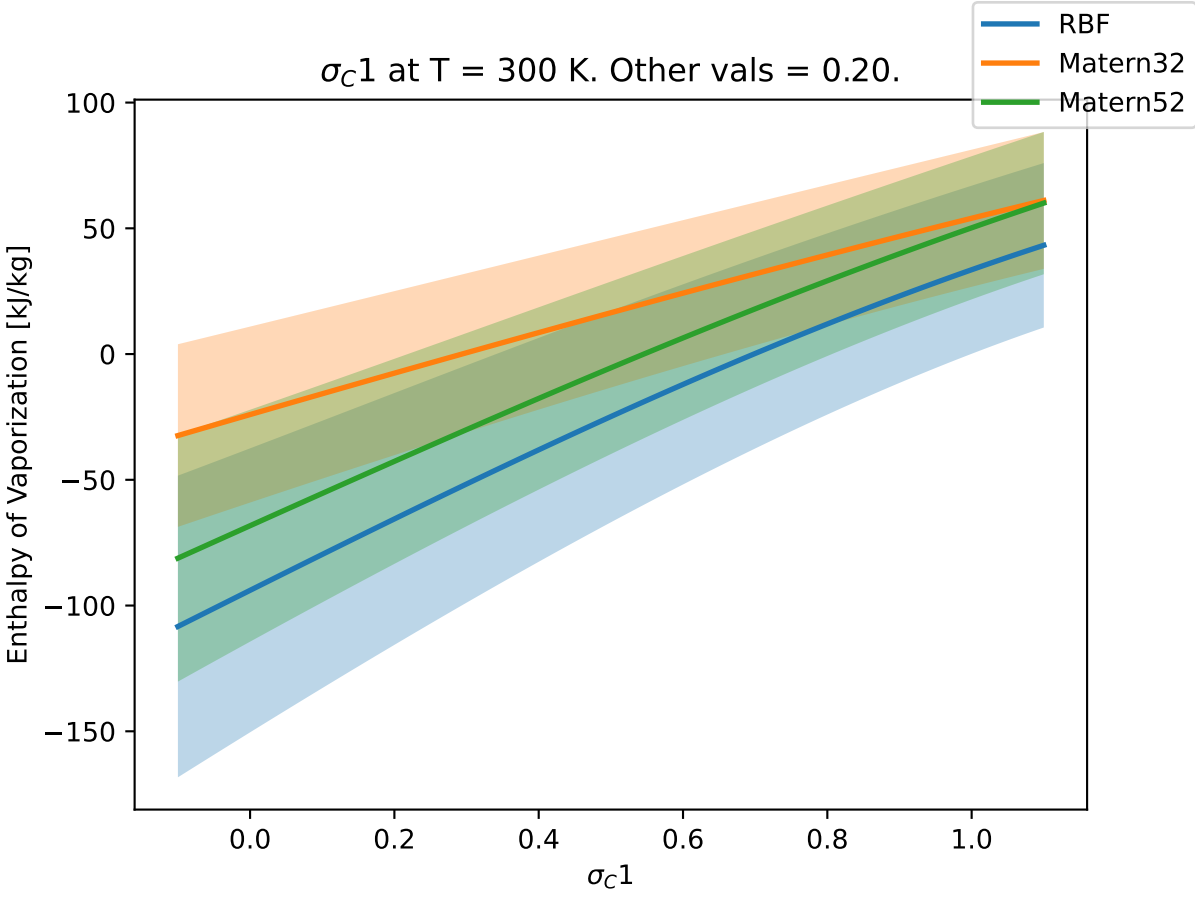

RBF
Matern32
Matern52
Other vals = 0.80
Enthalpy of Vaporization [kJ/kg]
350
325
300
275
250
225
200
175
220
240
260
280
300
320
340
Temperature

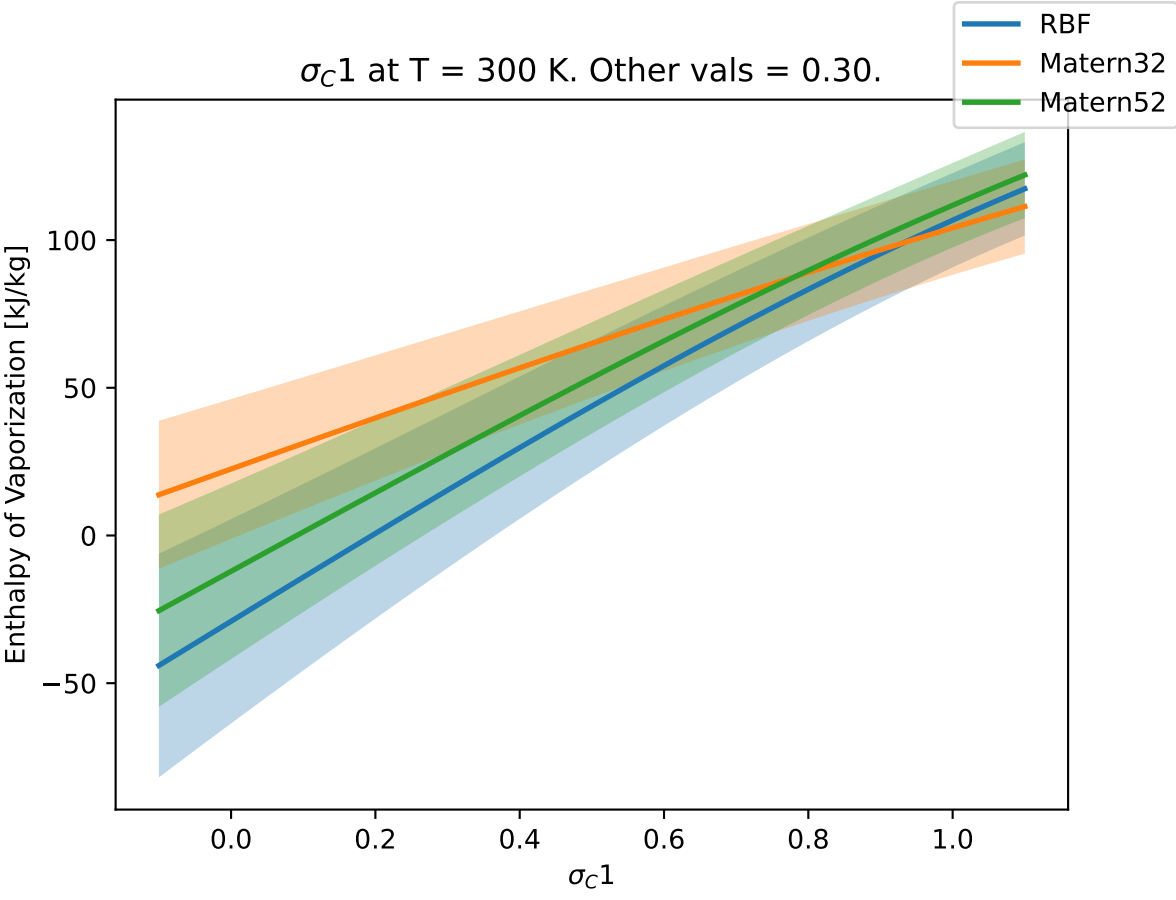

RBF
Matern32
Matern52
Other vals = 0.90
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
220
240
260
280
300
320
340
Temperature

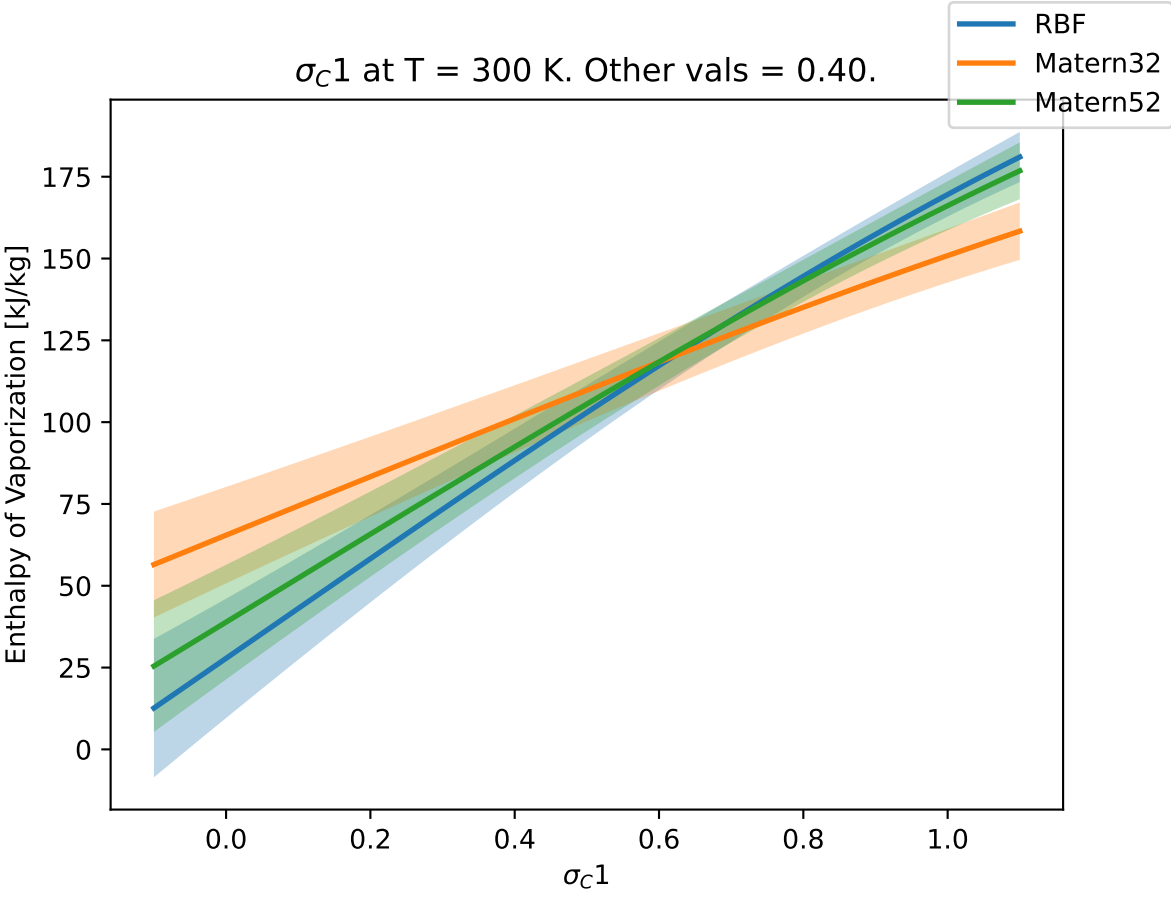

RBF
Matern32
Matern52
Other vals = 1.00
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
220
240
260
280
300
320
340
Temperature

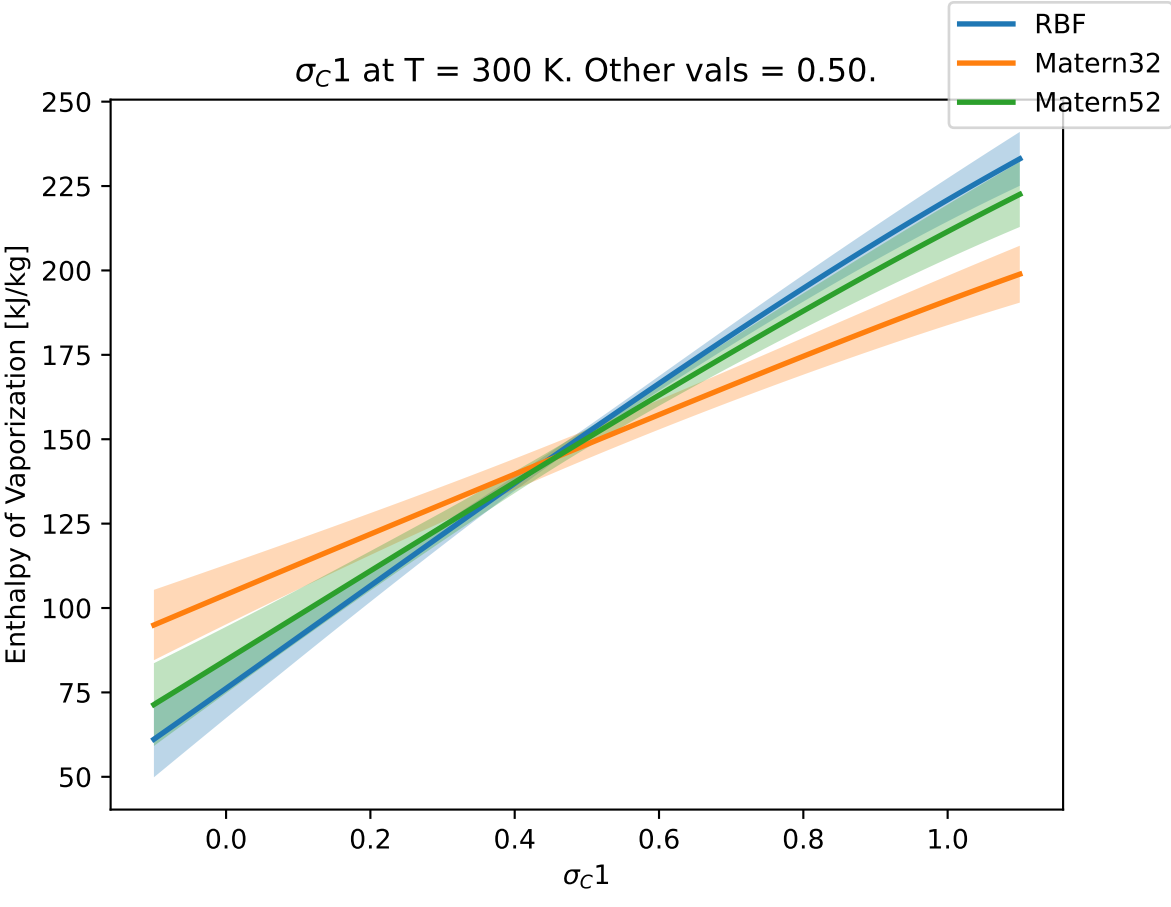

RBF
Matern32
Matern52
$\sigma_C 1$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 1$

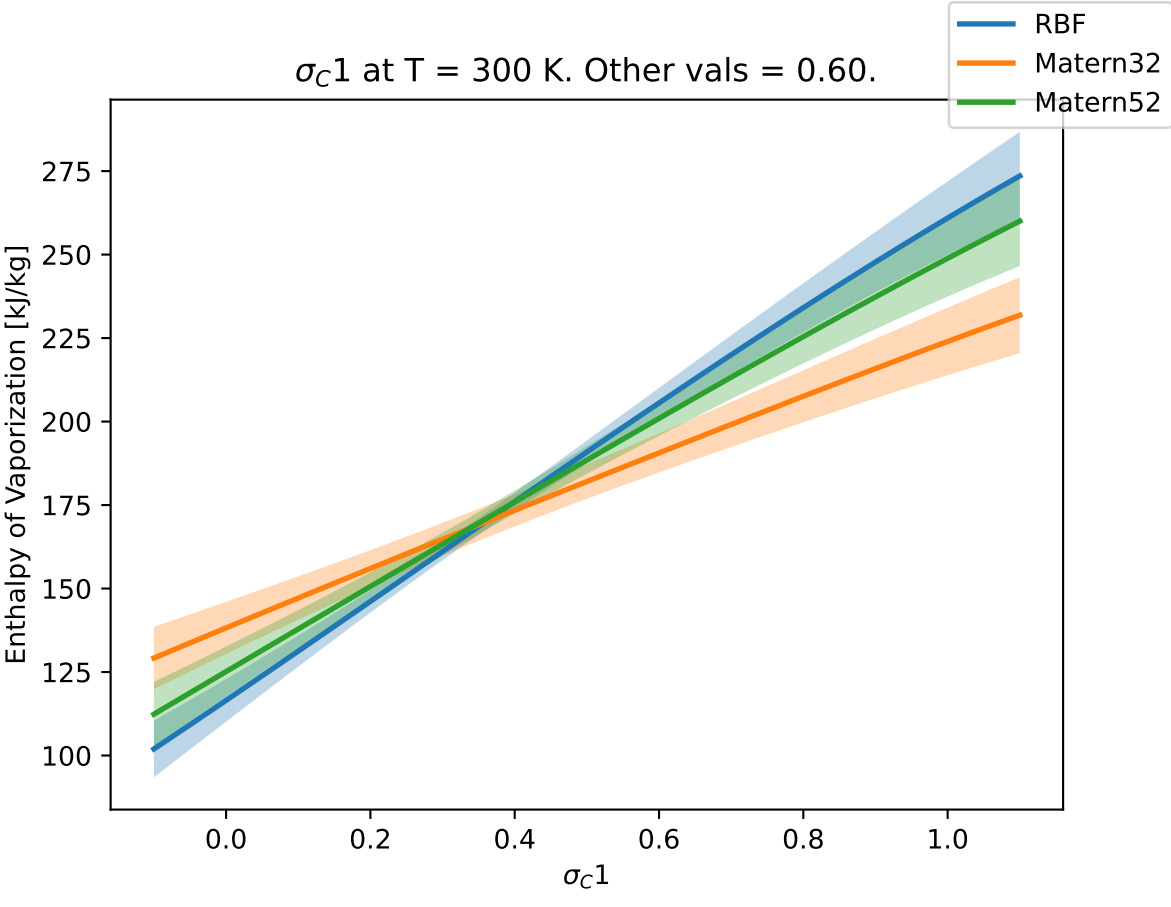

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

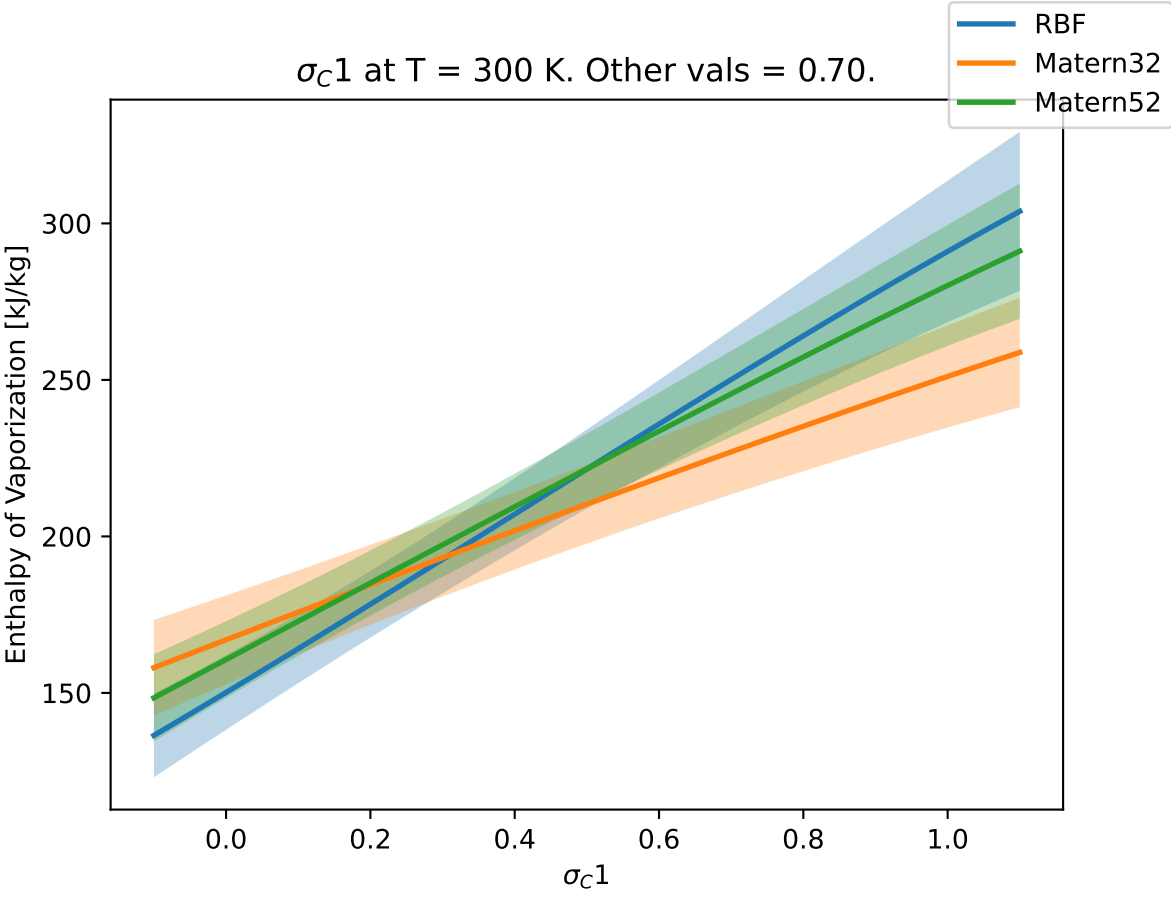

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

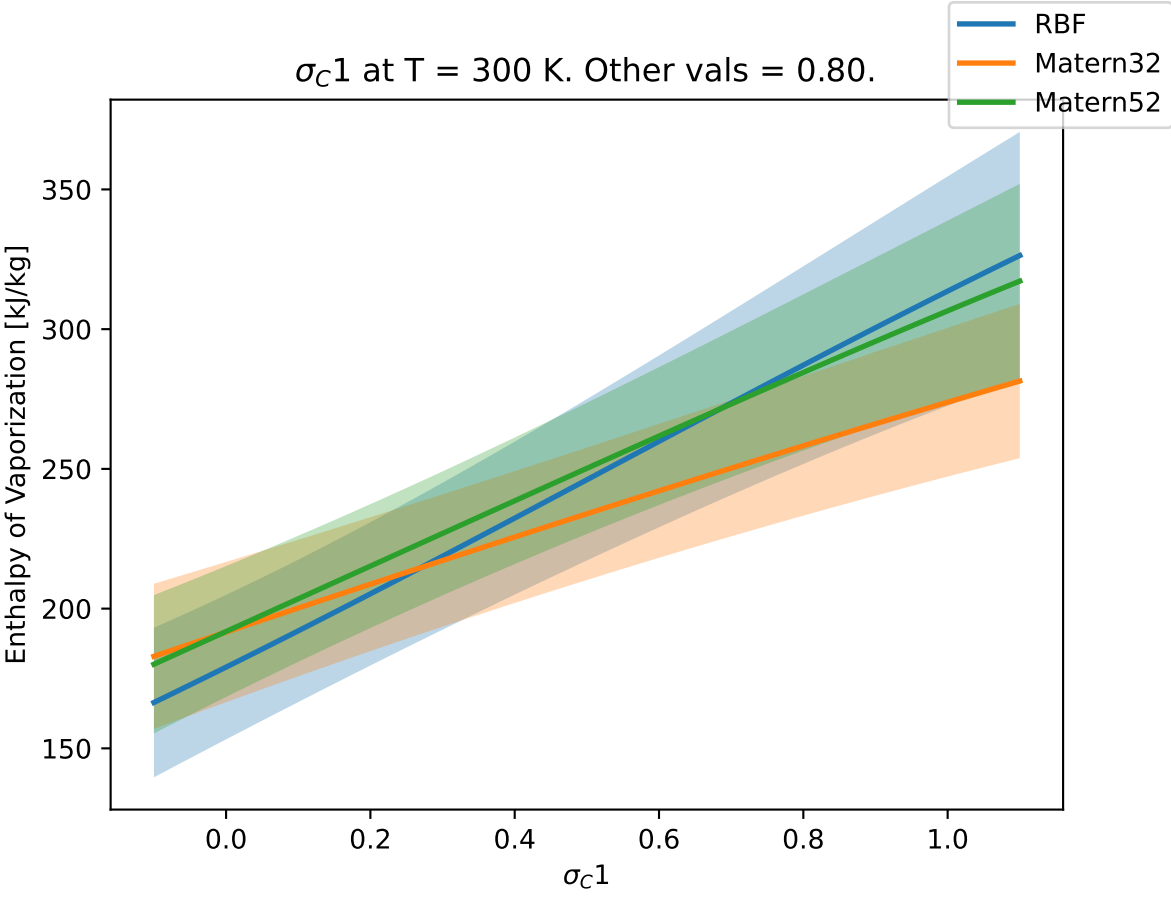

RBF
Matern32
Matern52
$\sigma_C 1$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 1$

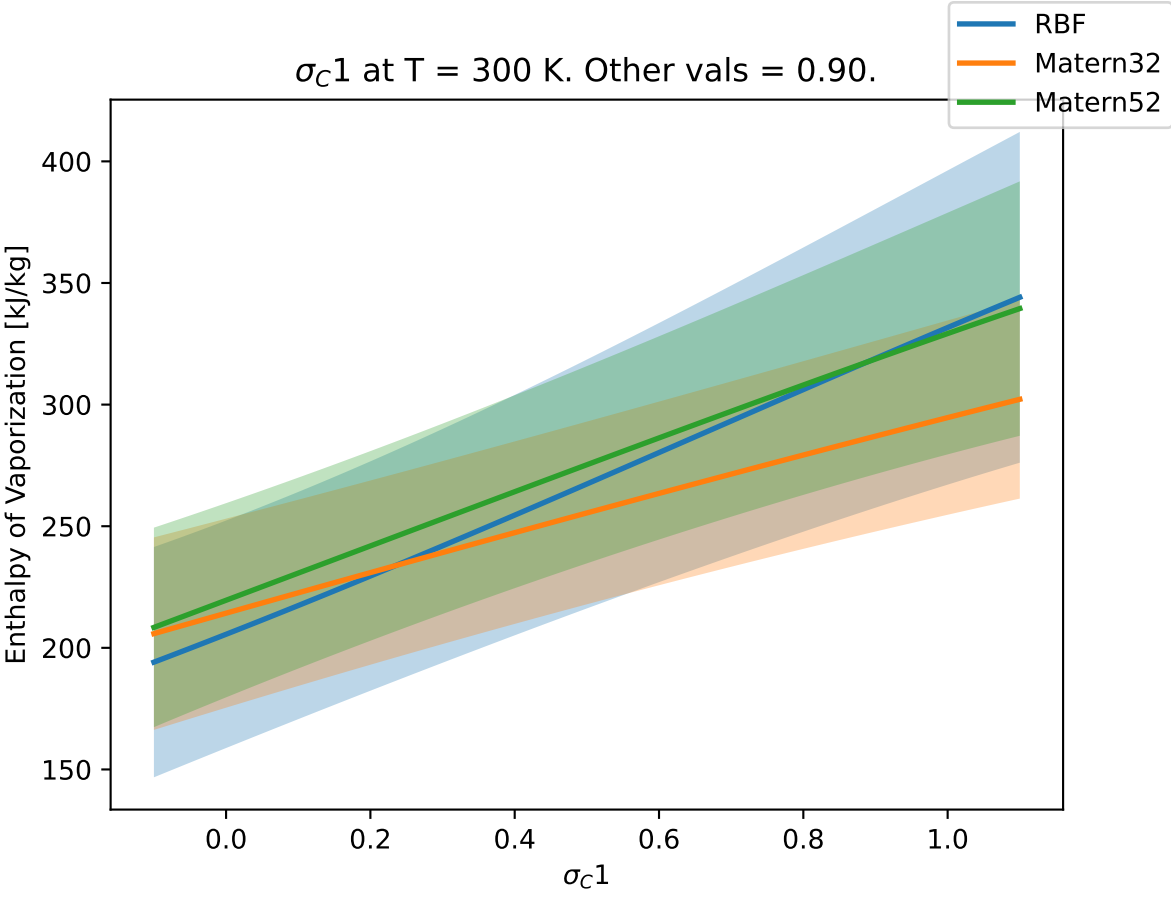

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

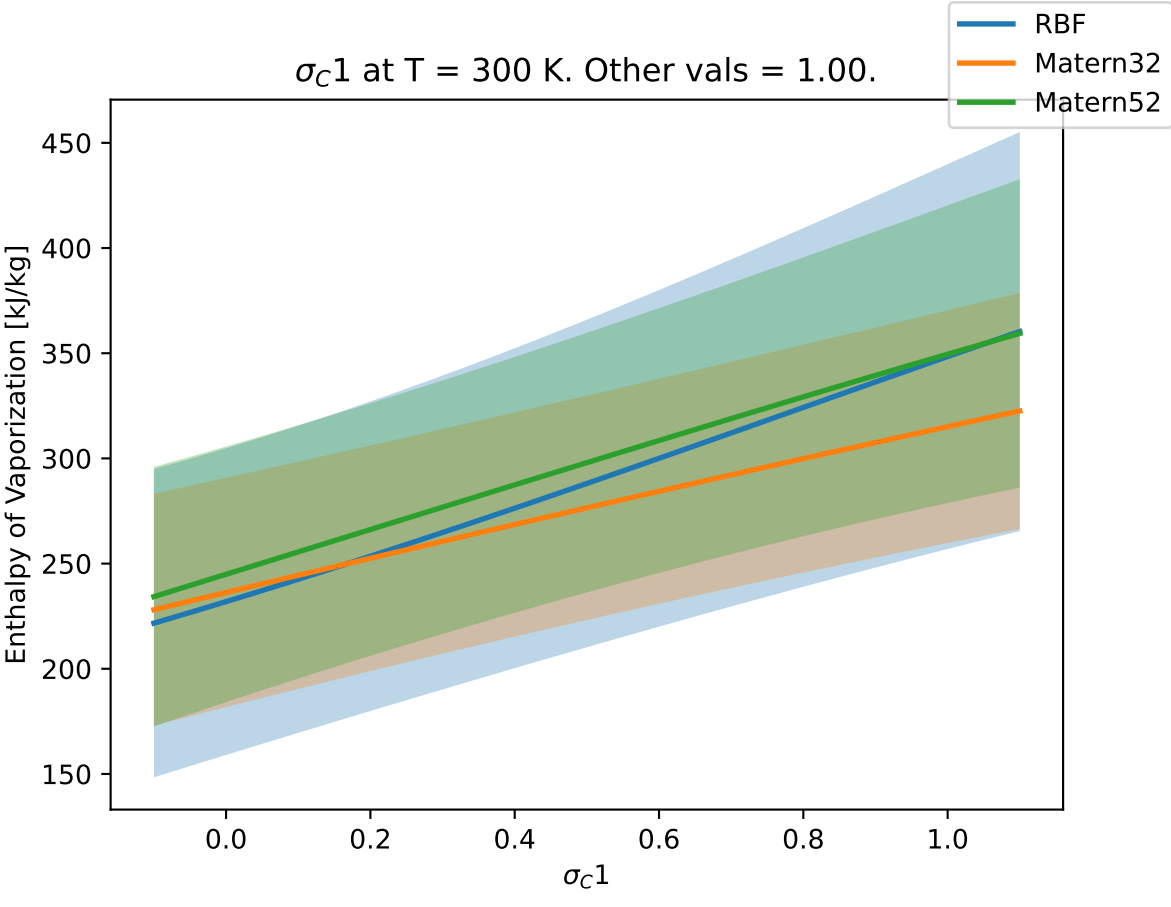

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
250
225
200
175
150
125
100
75
50
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

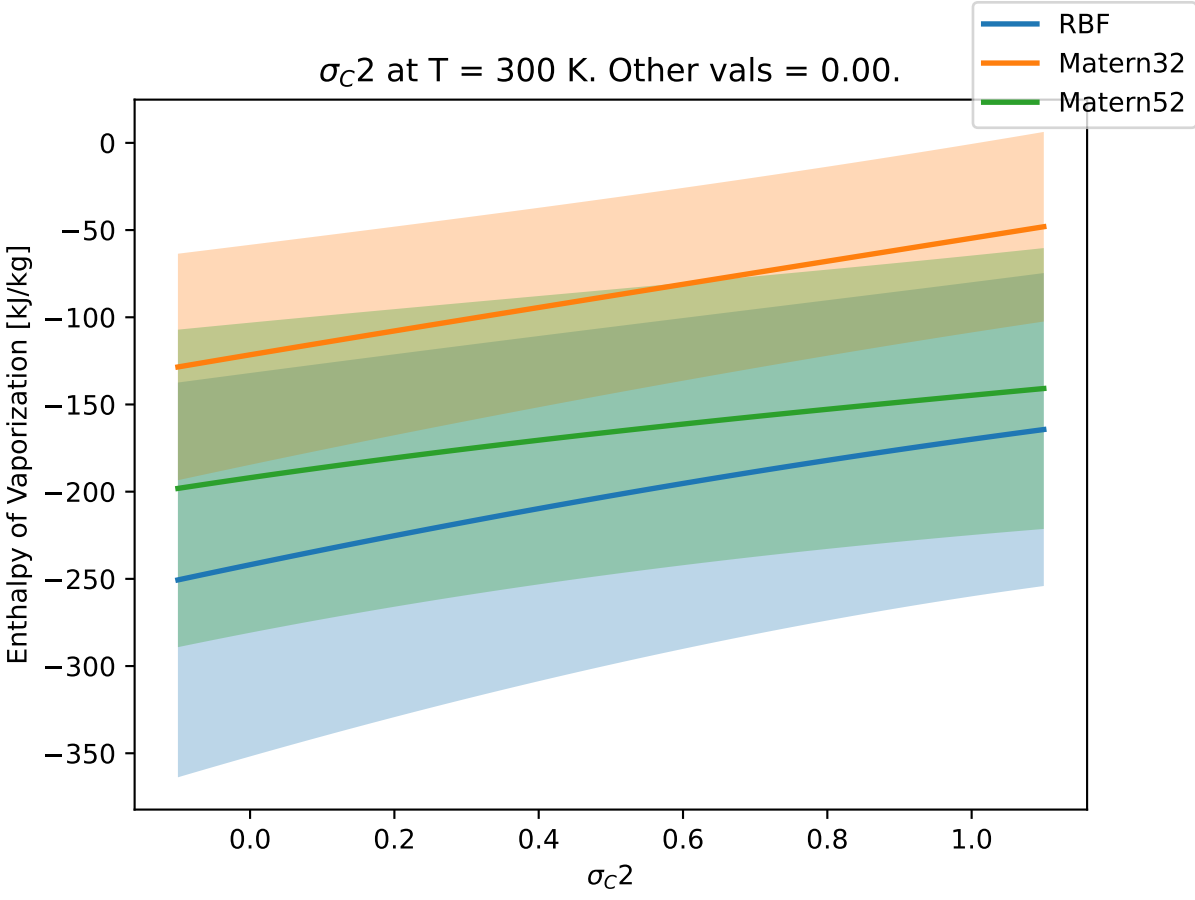

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
100
125
150
175
200
225
250
275
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

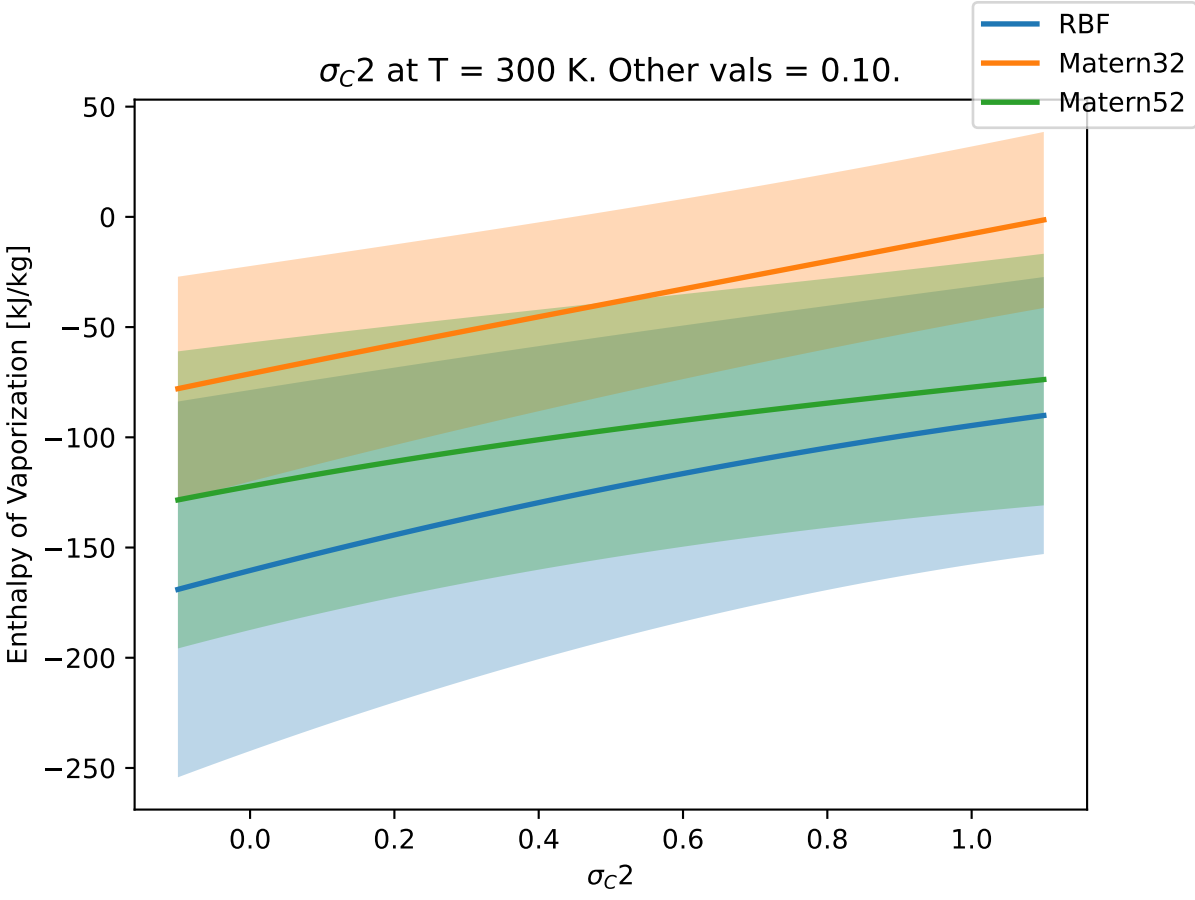

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

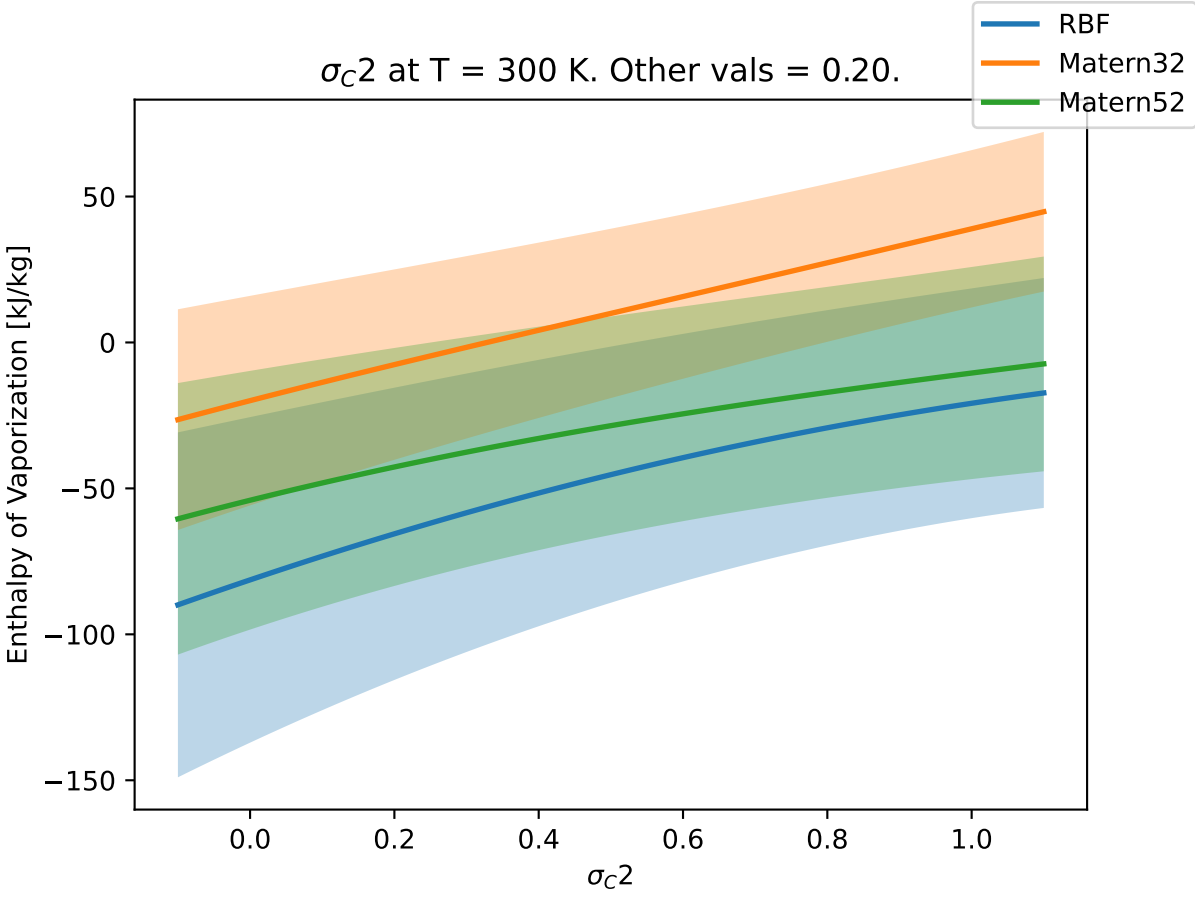

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

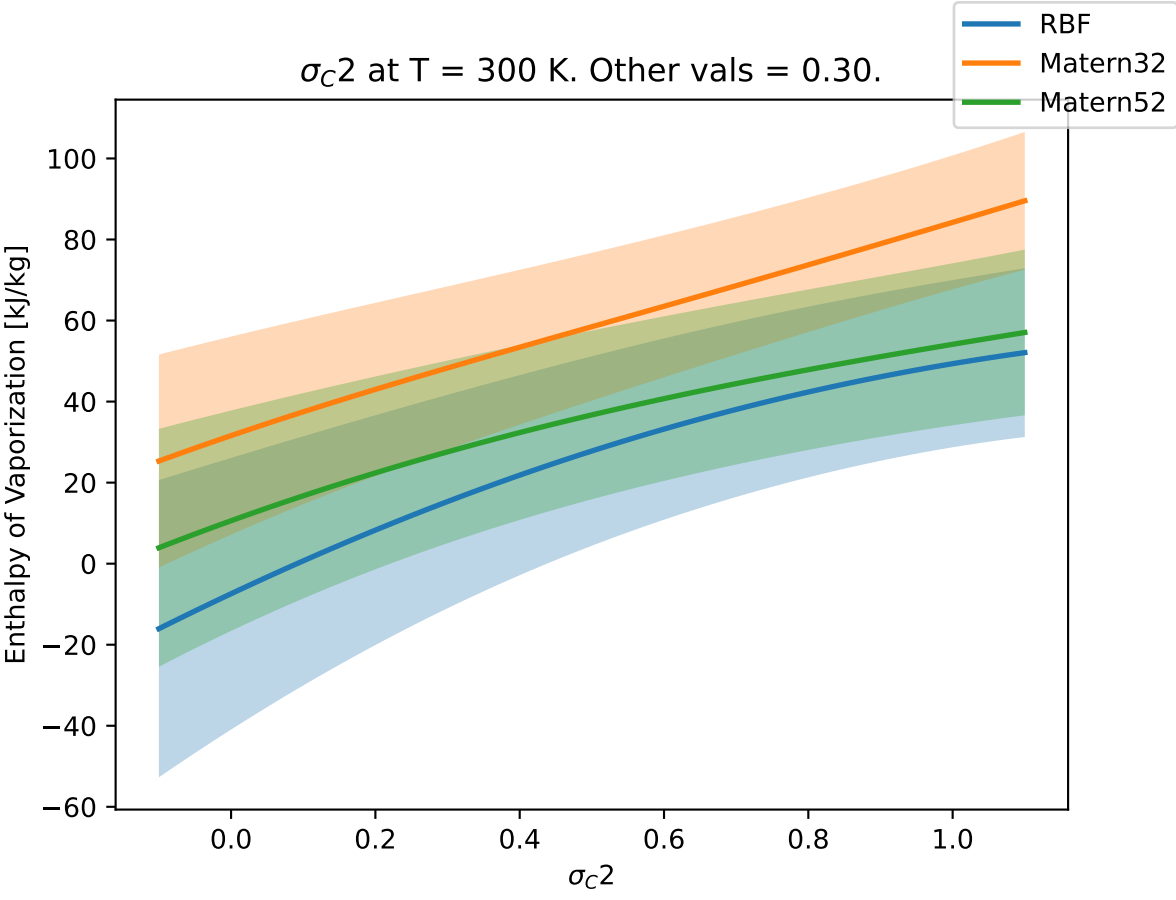

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

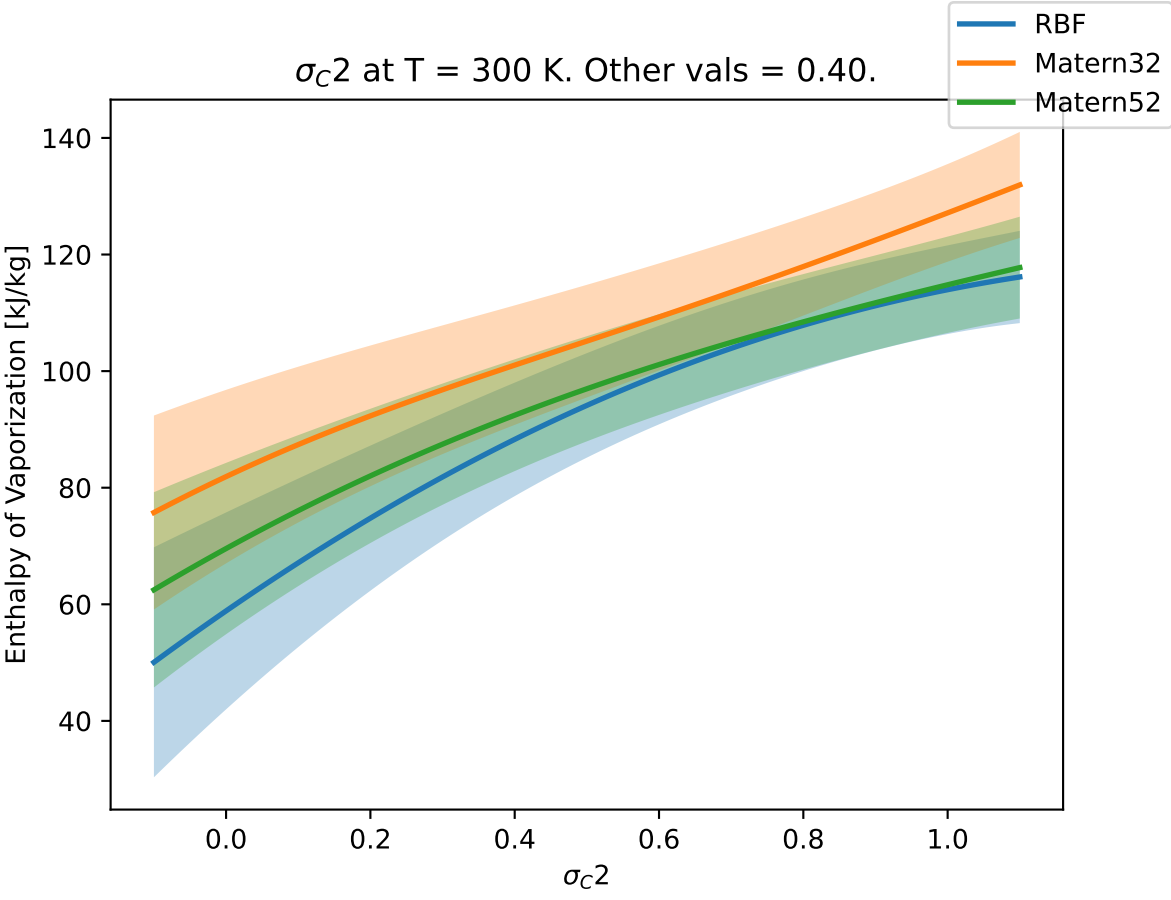

RBF
Matern32
Matern52
σ_C1 at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

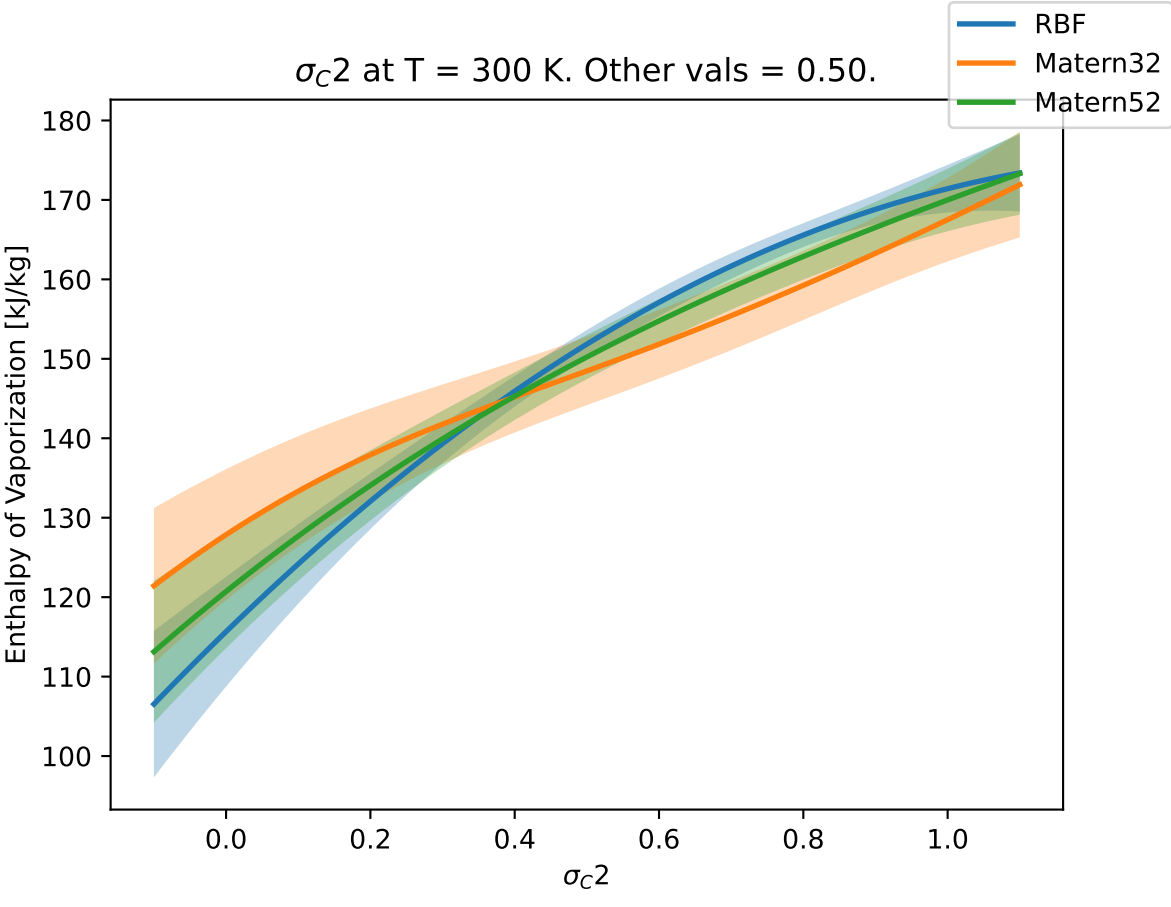

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

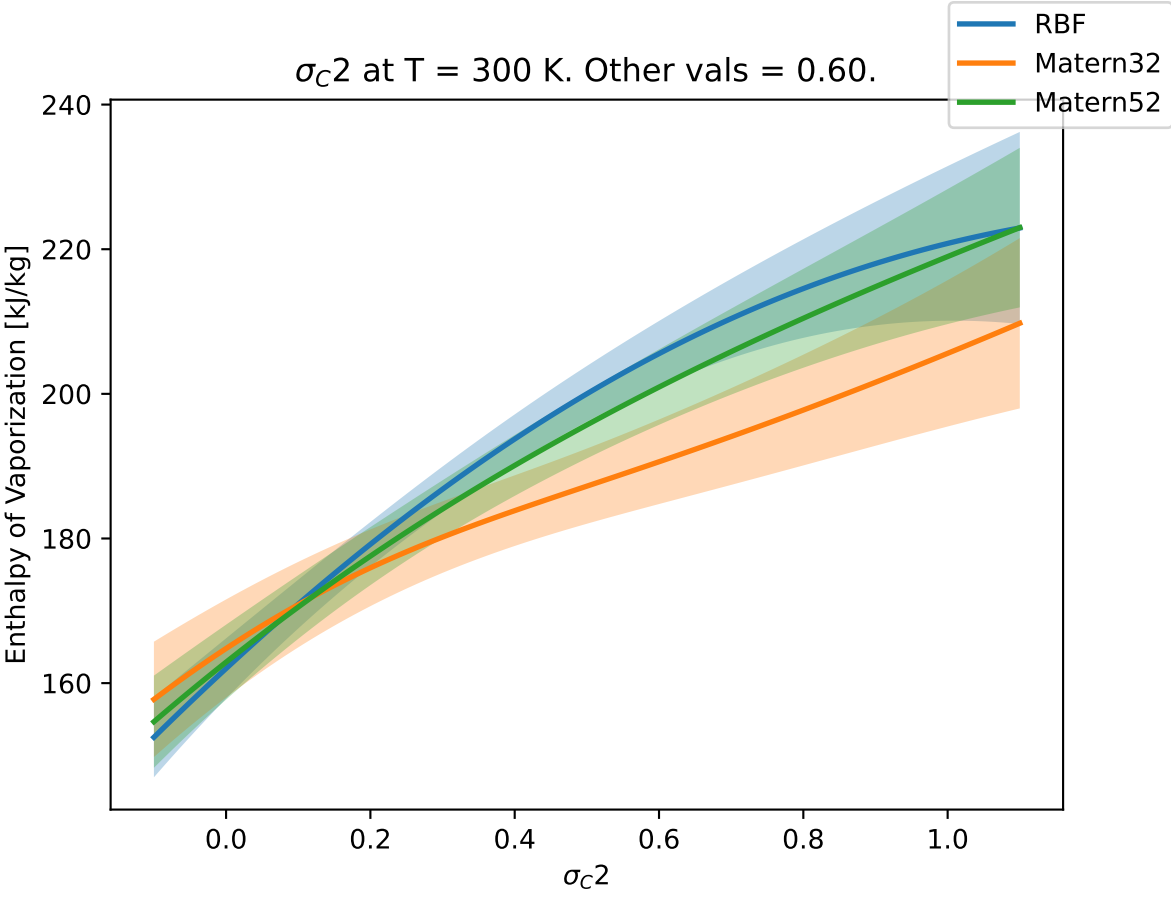

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

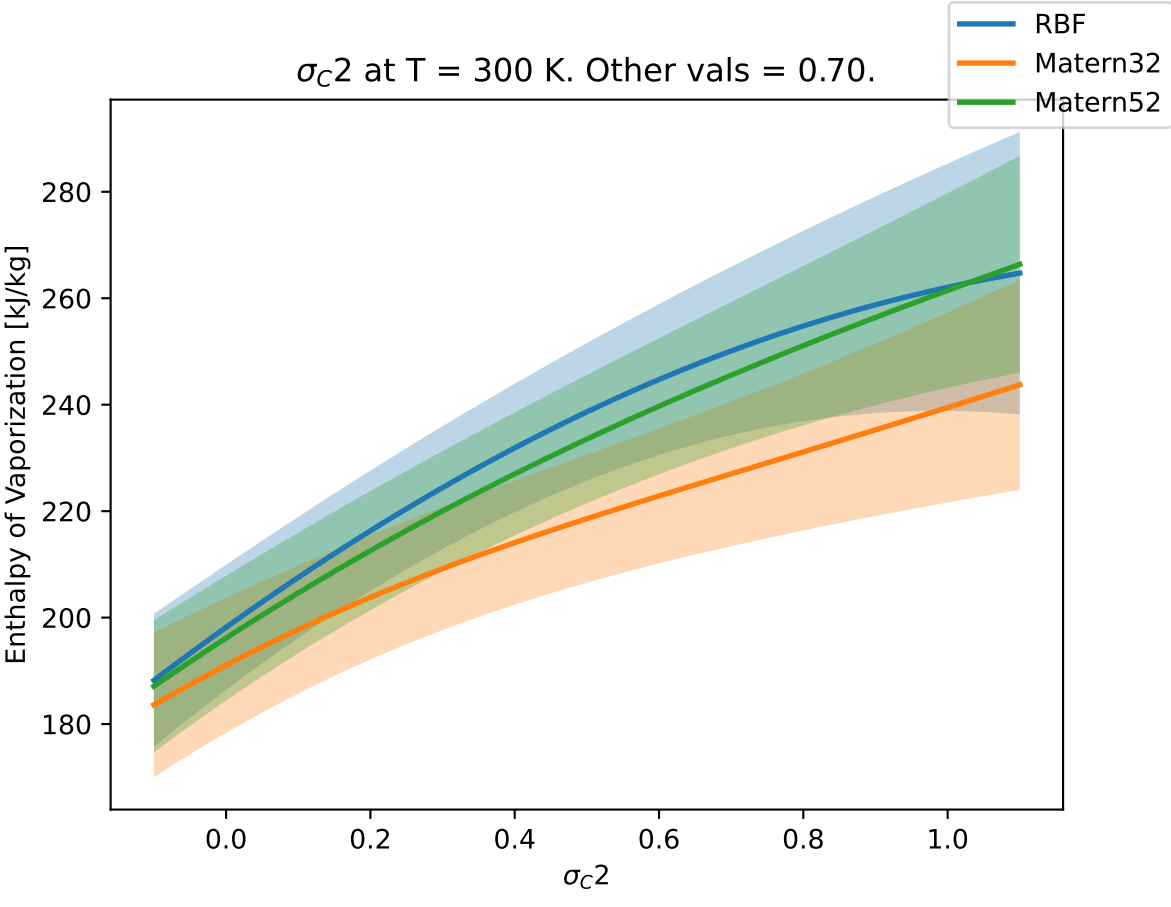

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

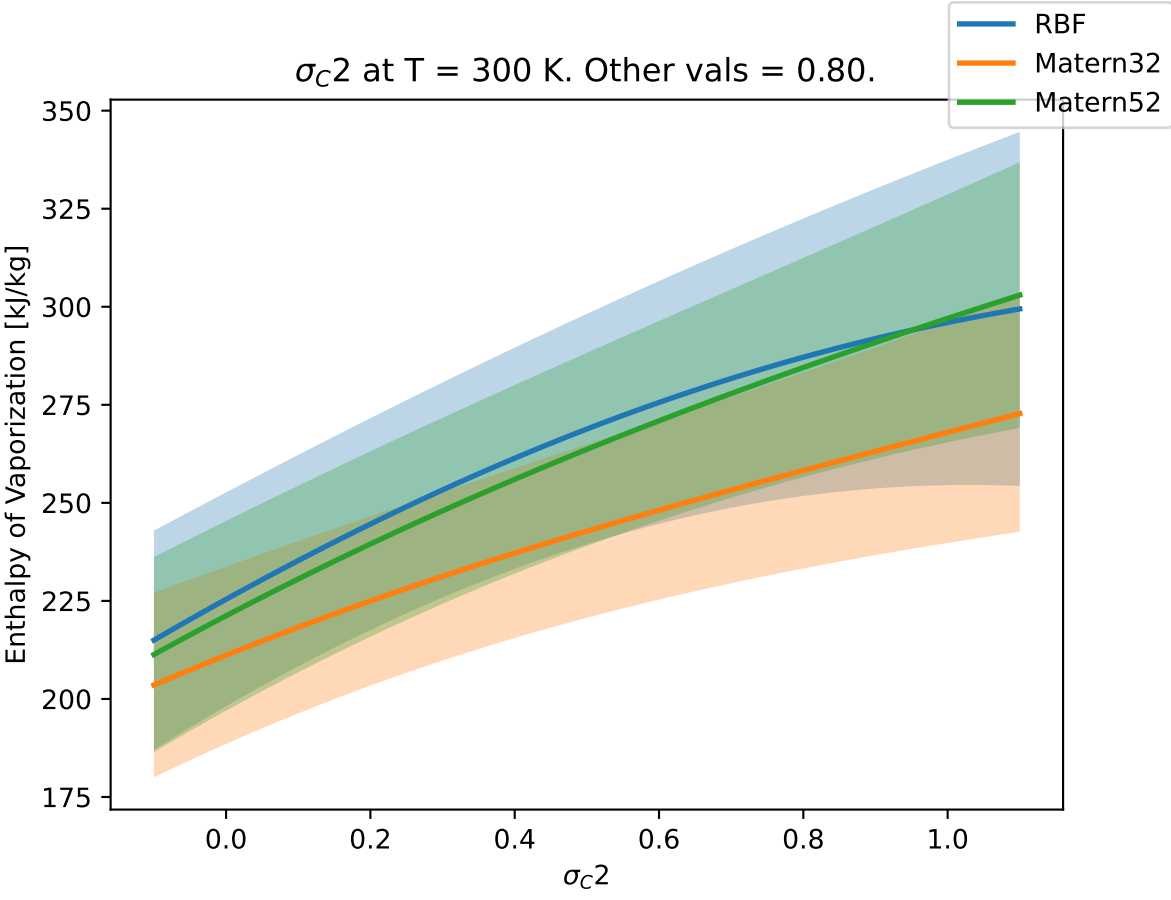

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
100
80
60
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

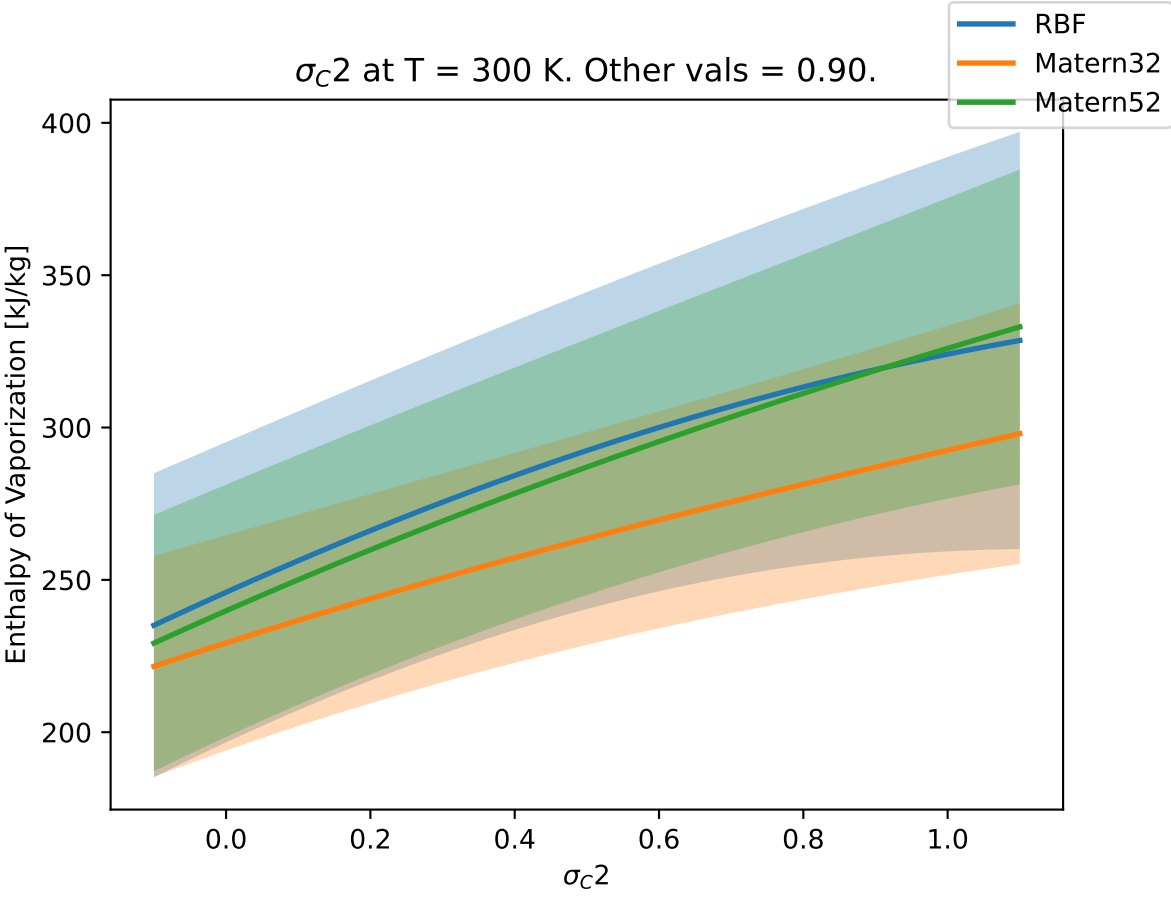

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
140
120
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

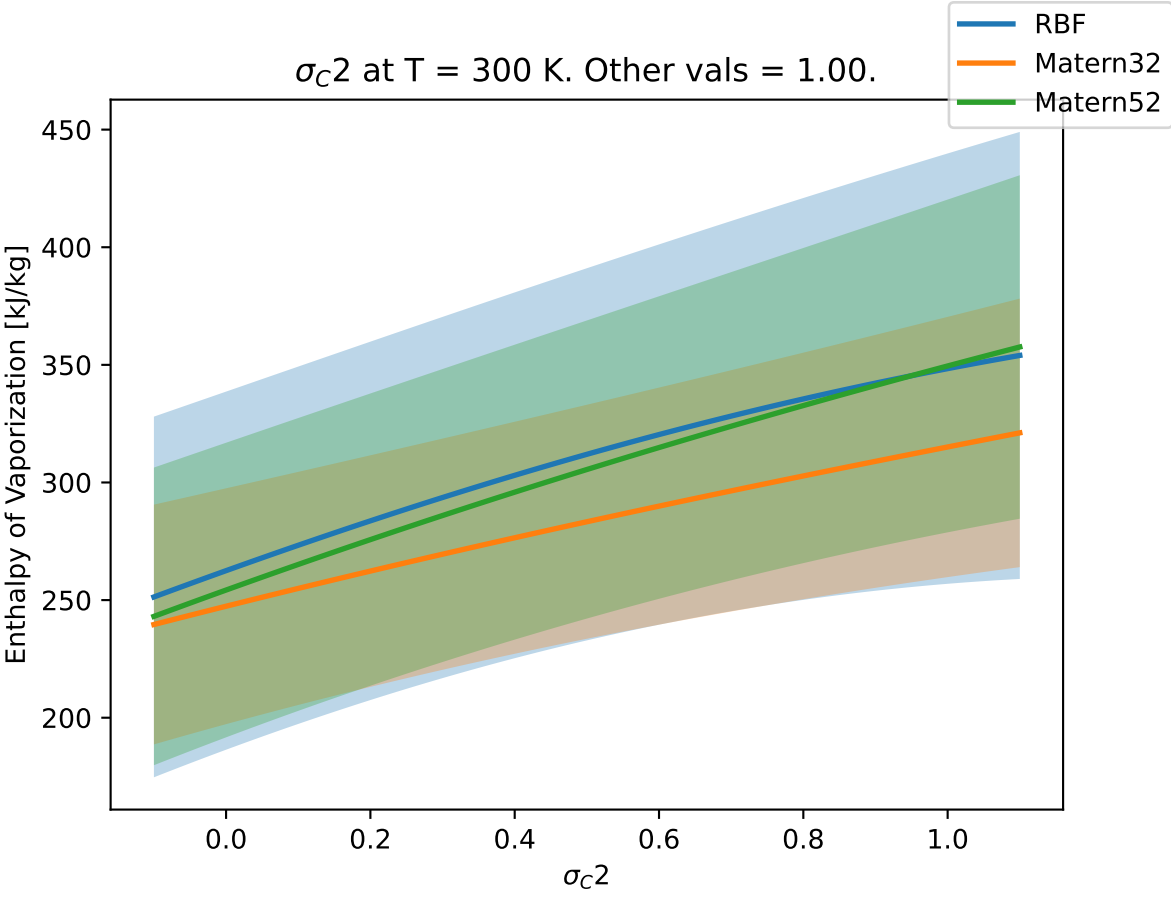

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
180
170
160
150
140
130
120
110
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

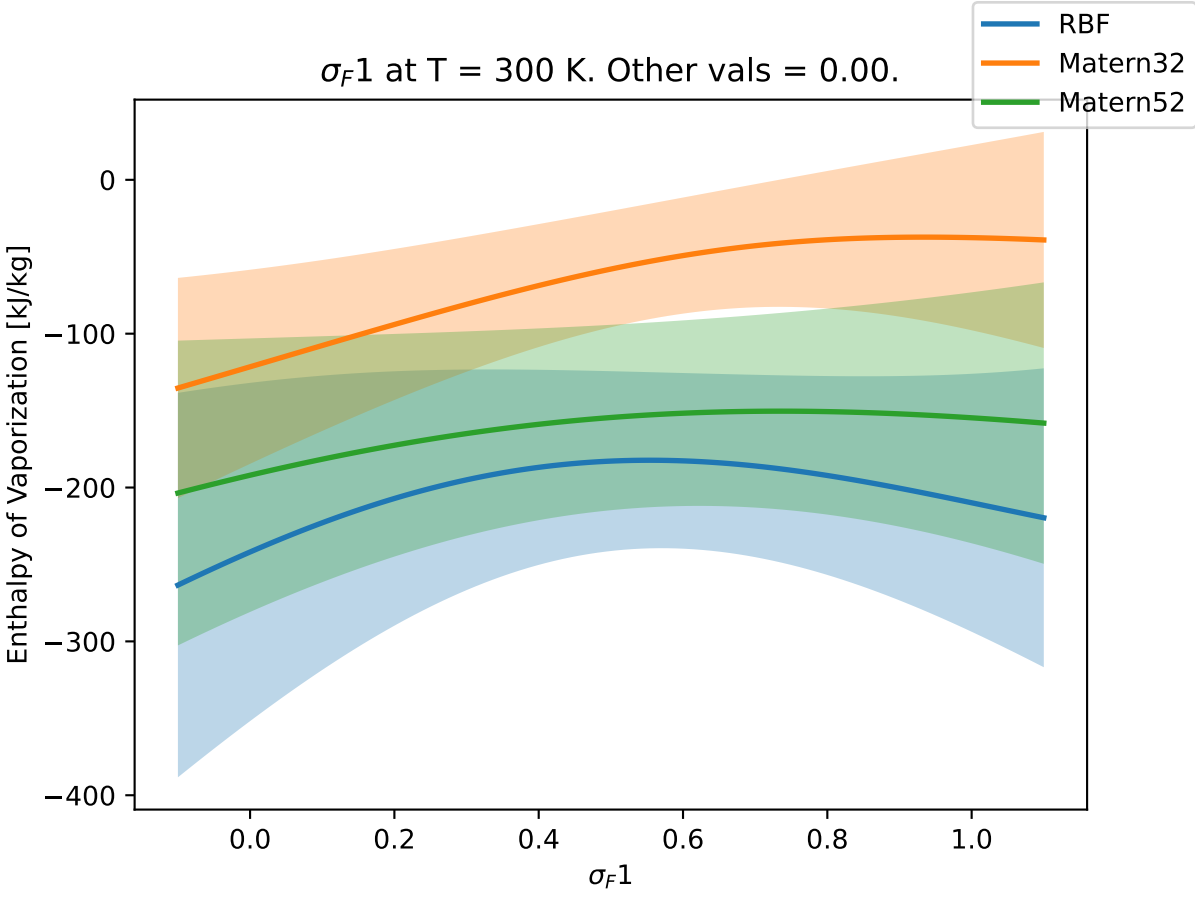

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
240
220
200
180
160
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

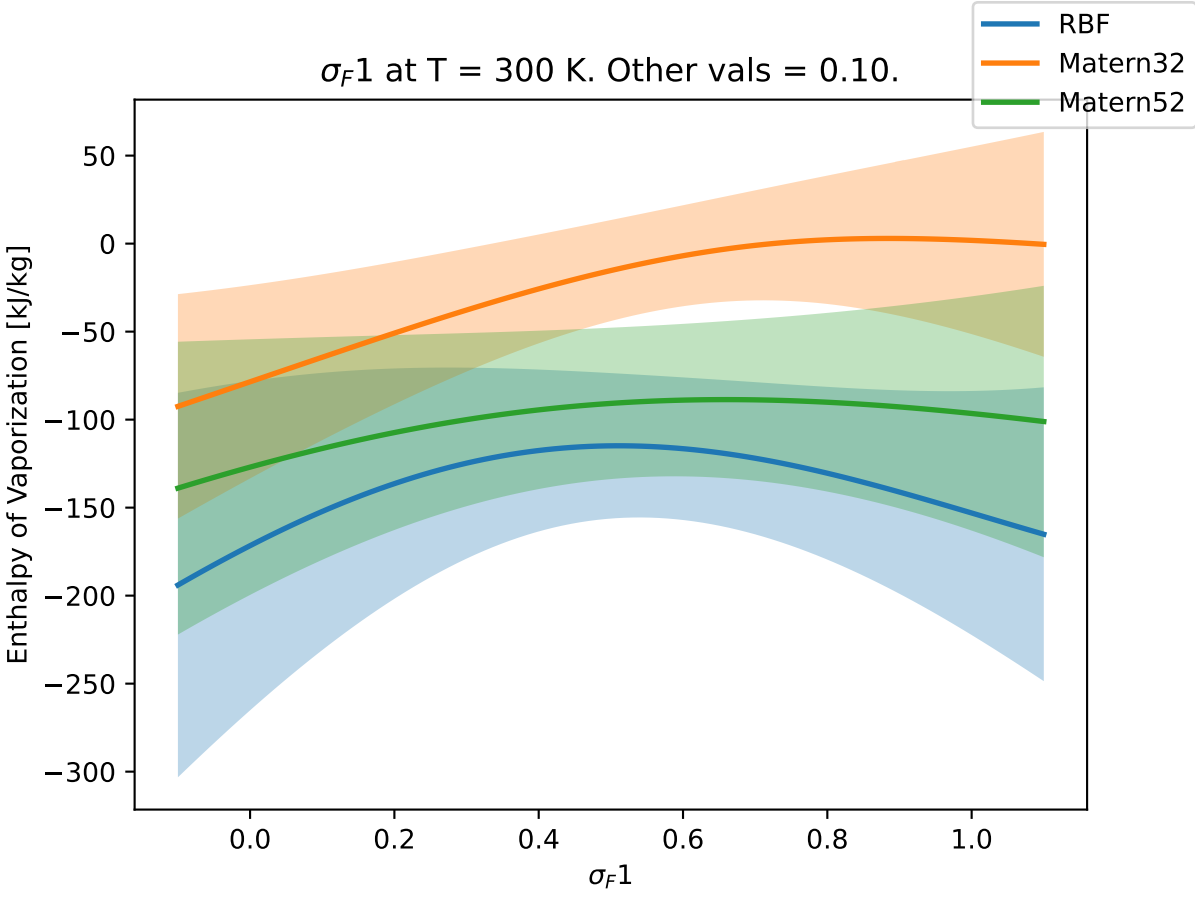

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
280
260
240
220
200
180
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

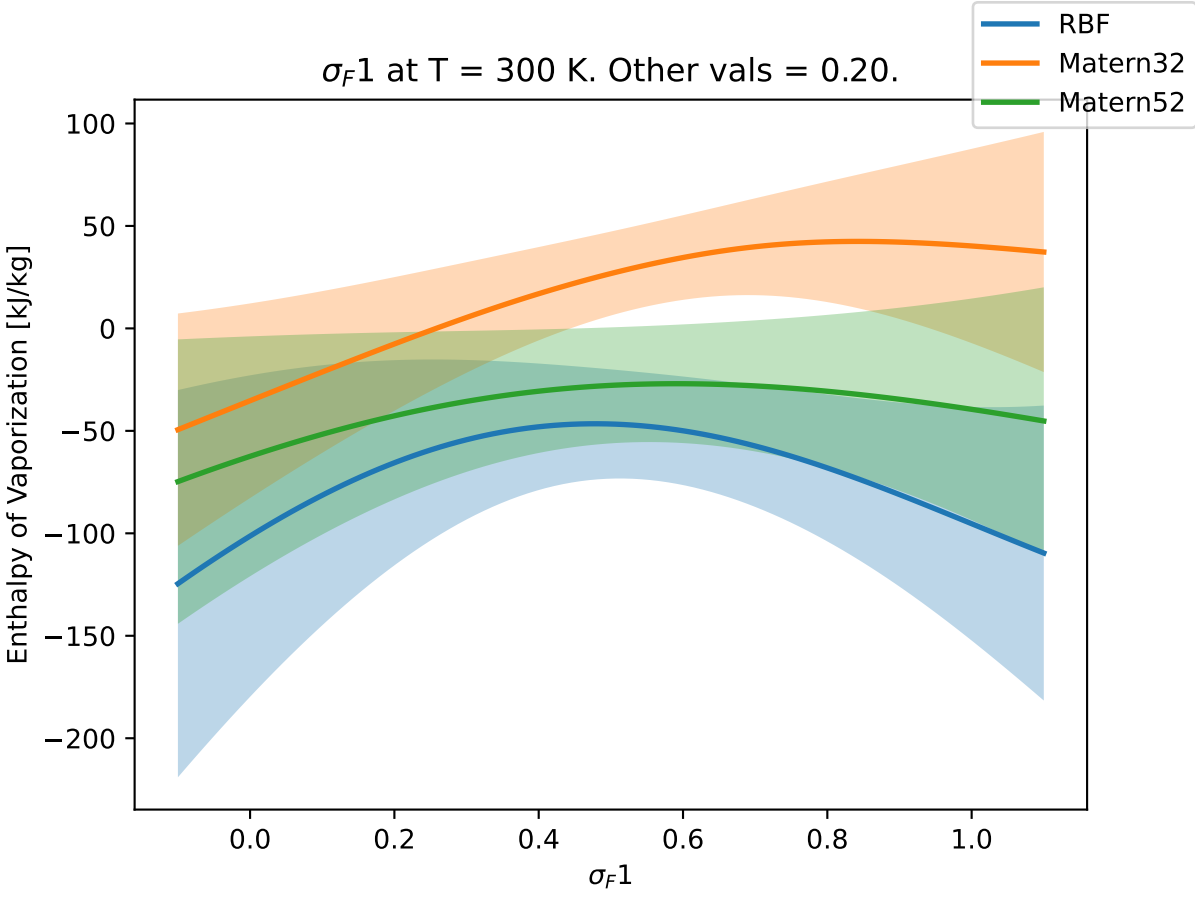

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
350
325
300
275
250
225
200
175
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

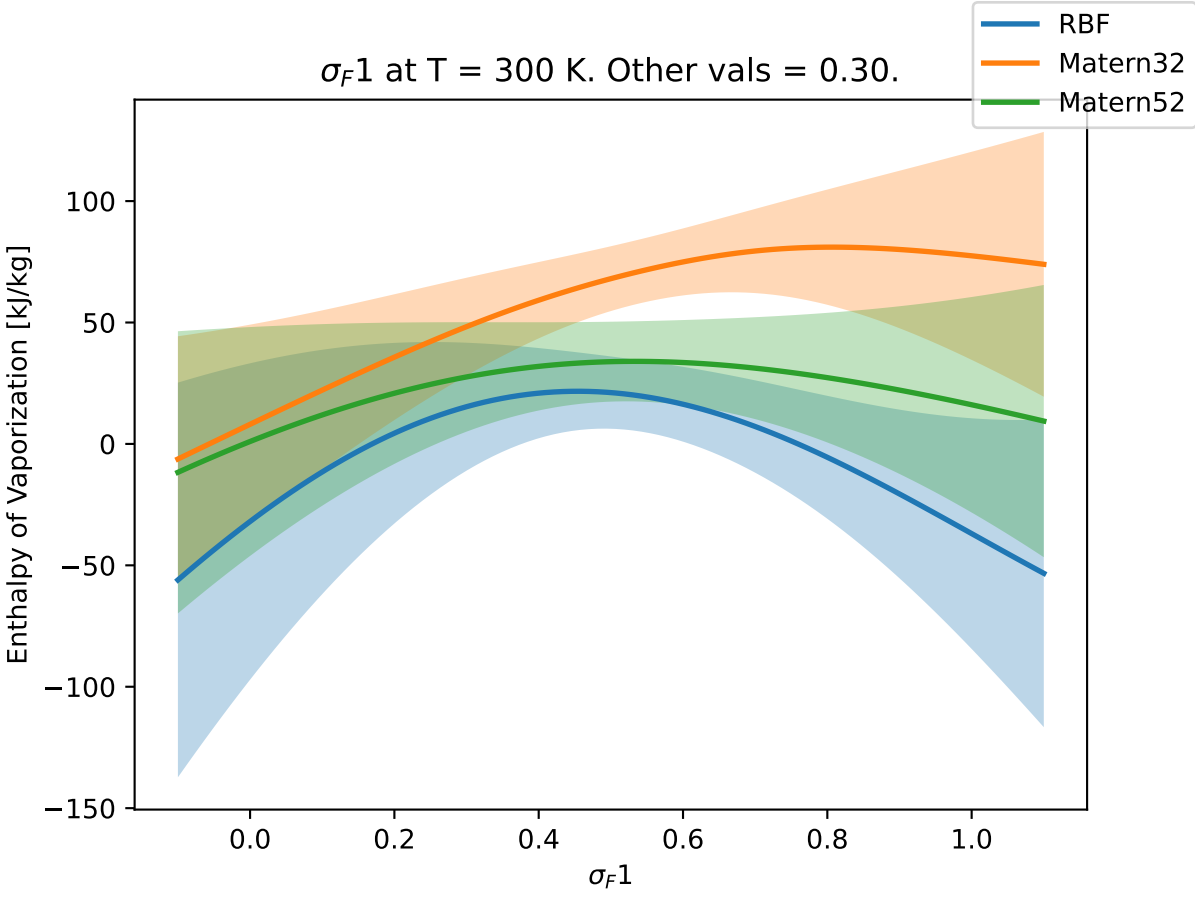

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

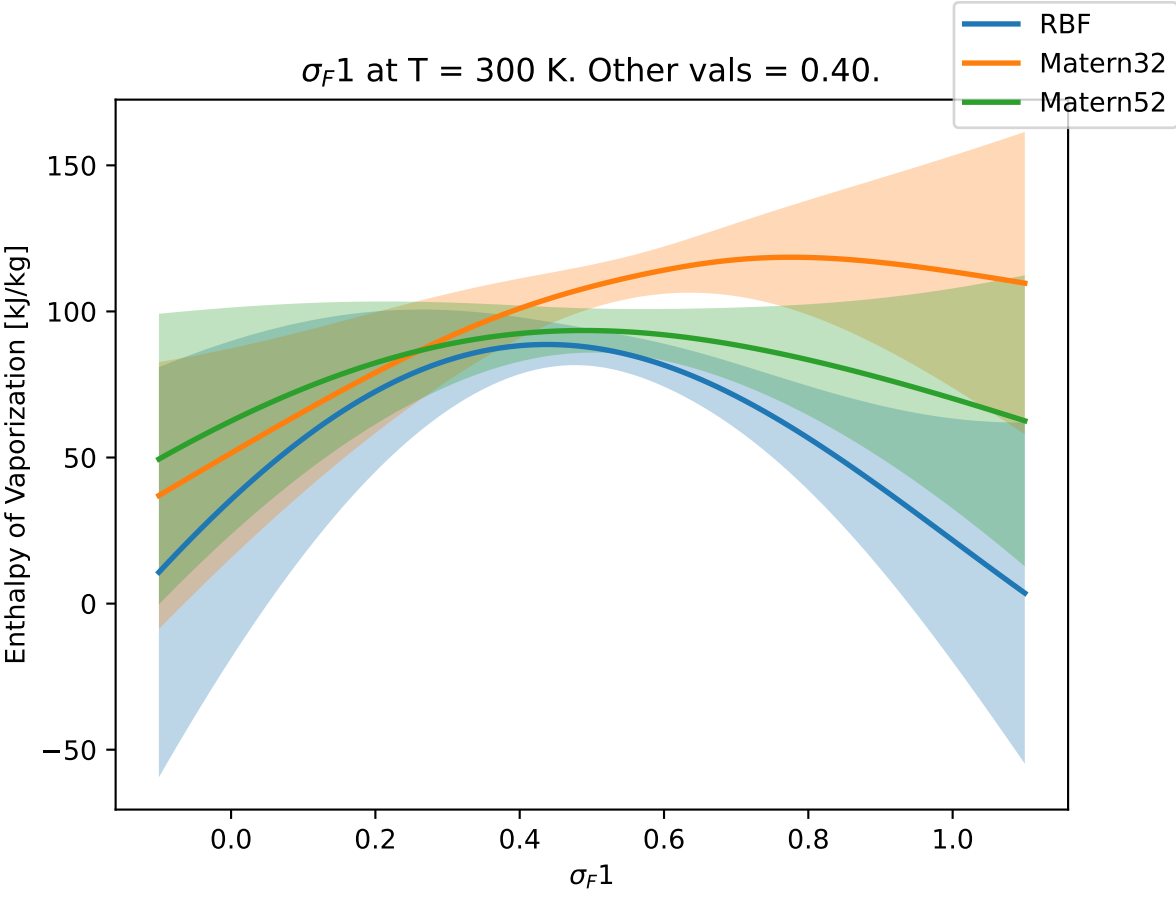

RBF
Matern32
Matern52
$\sigma_C 2$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_C 2$

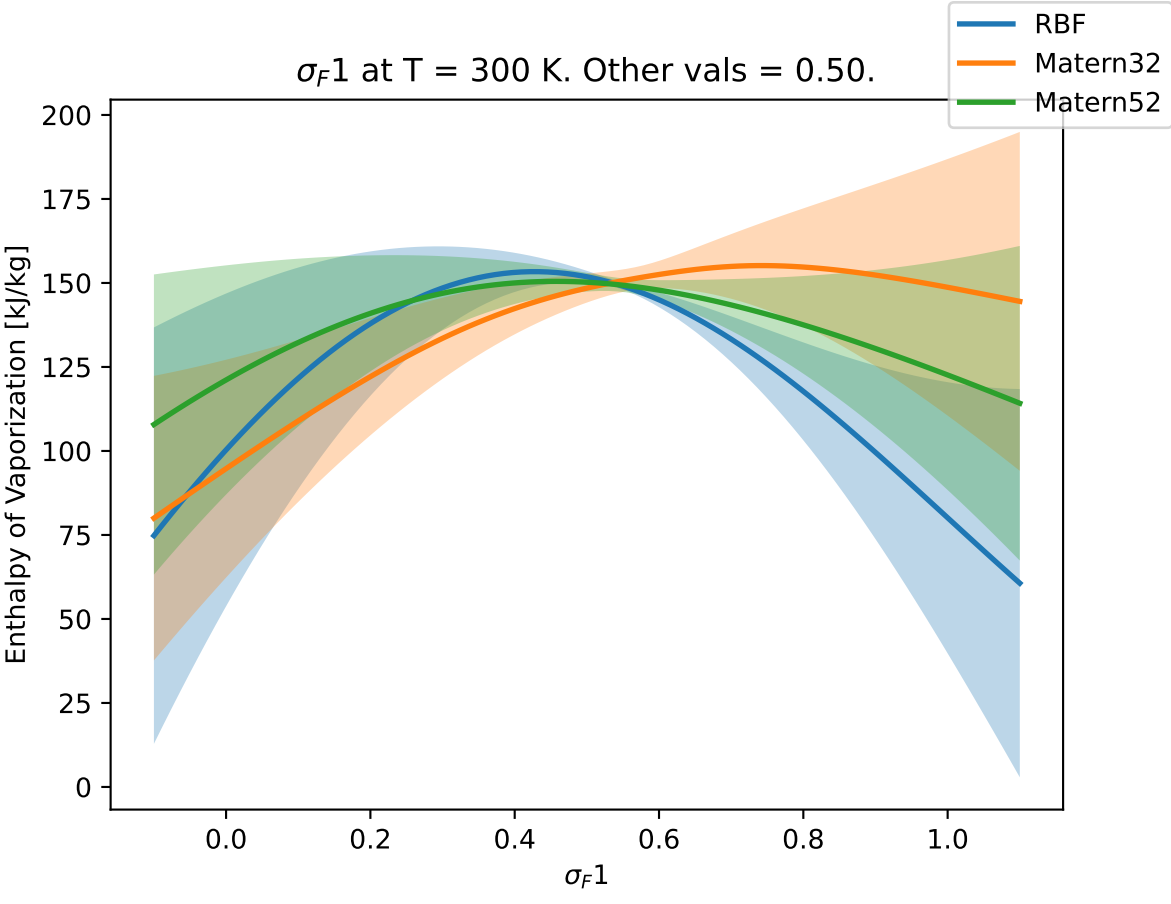

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−100
−200
−300
−400
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

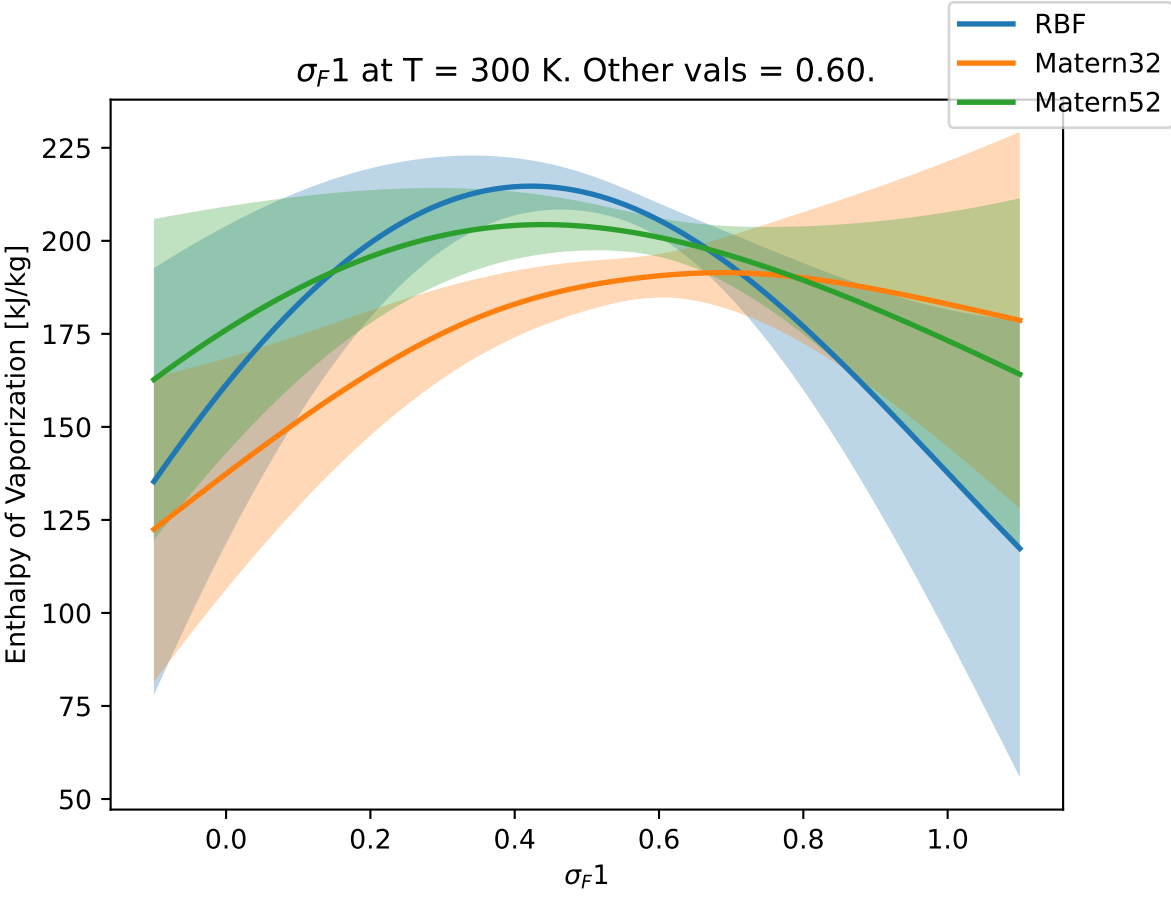

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
−300
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

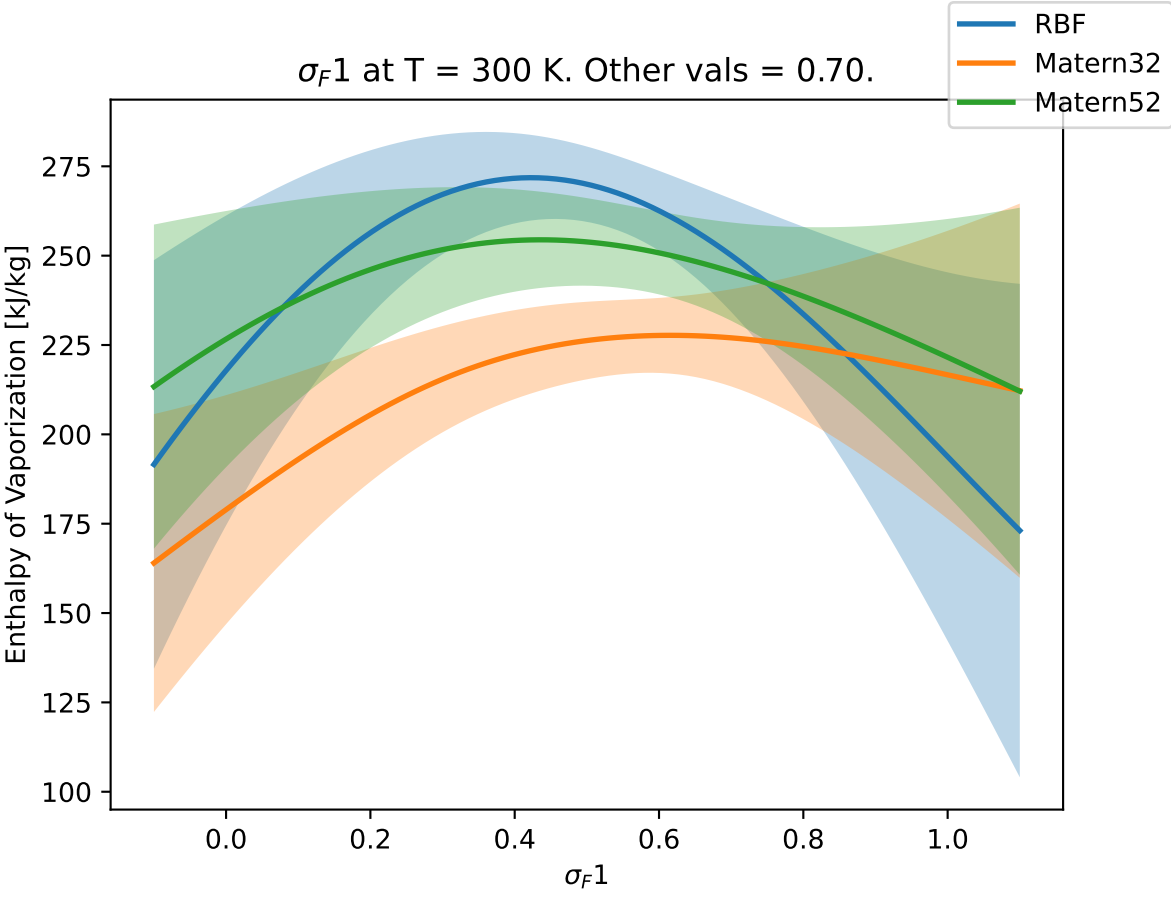

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
−100
−150
−200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

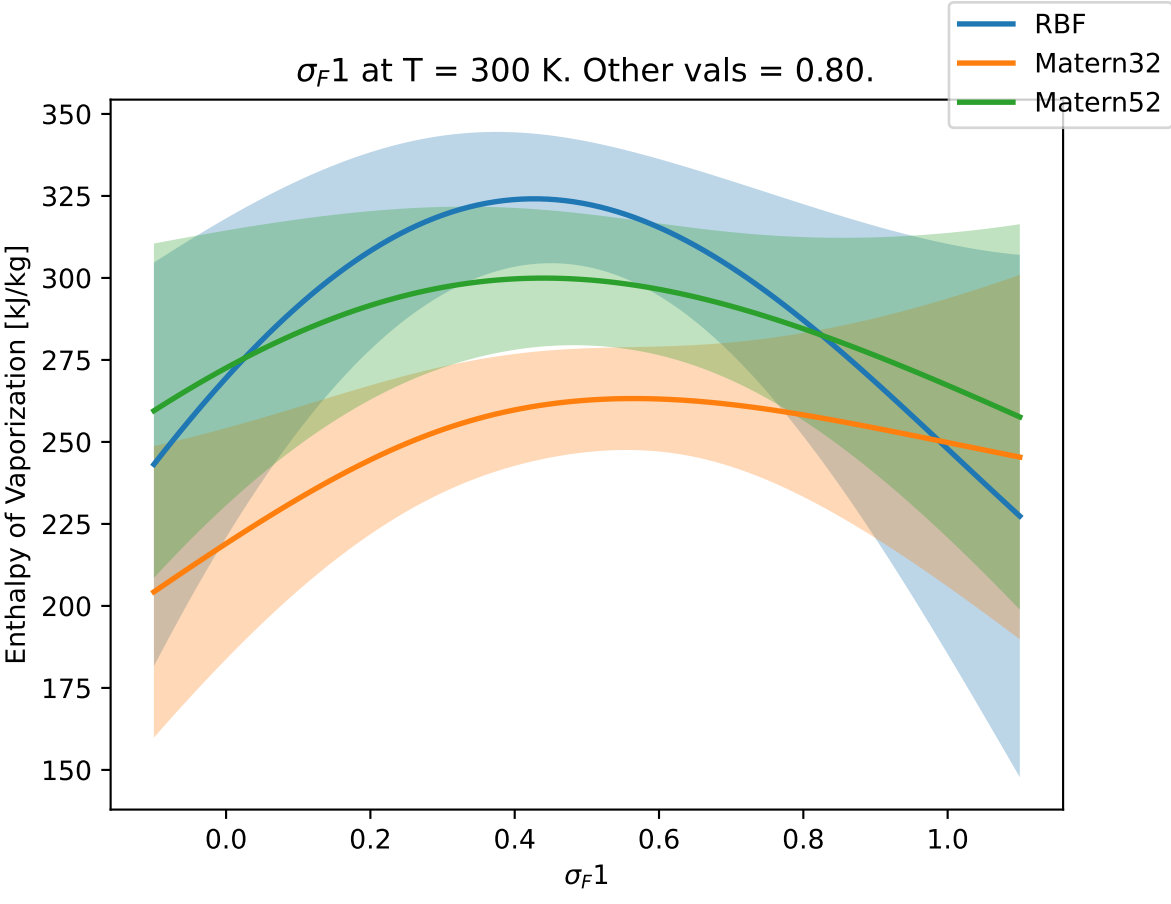

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

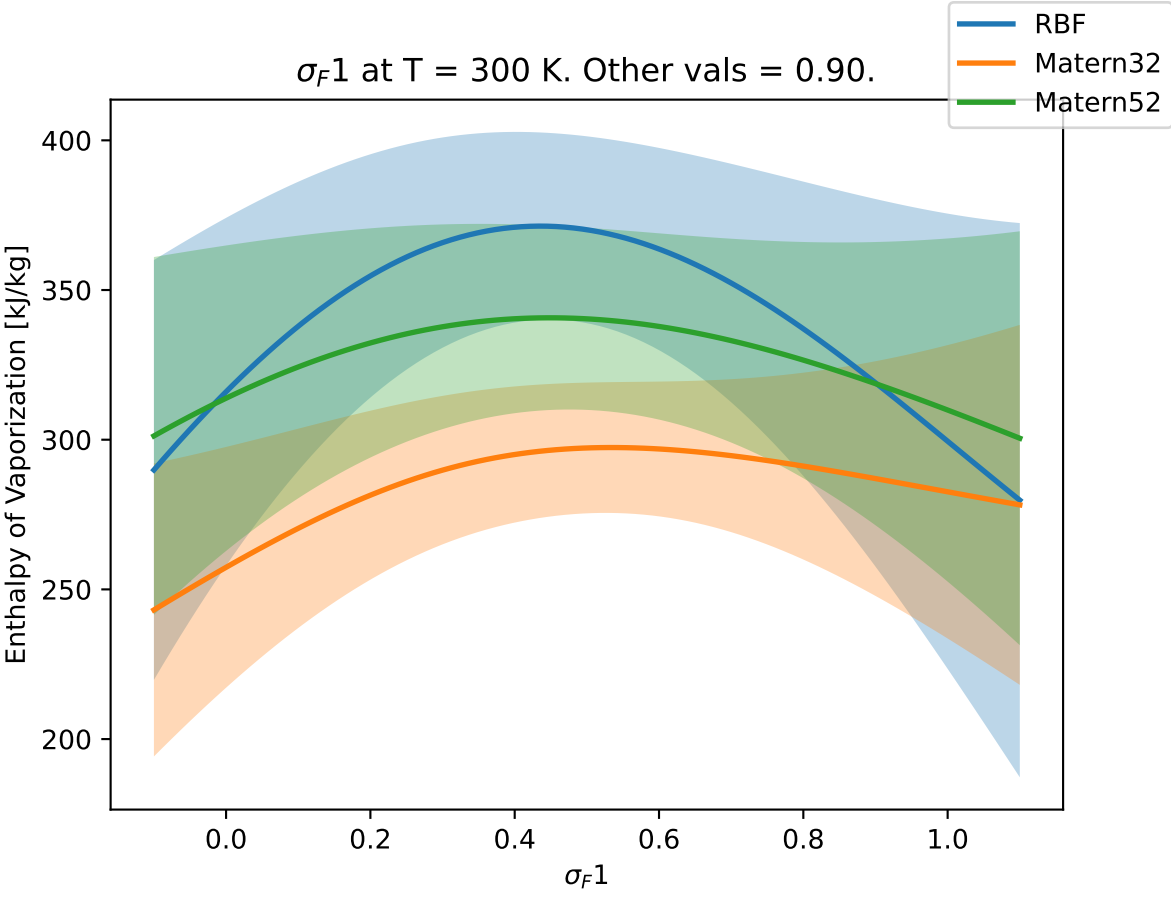

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
150
100
50
0
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

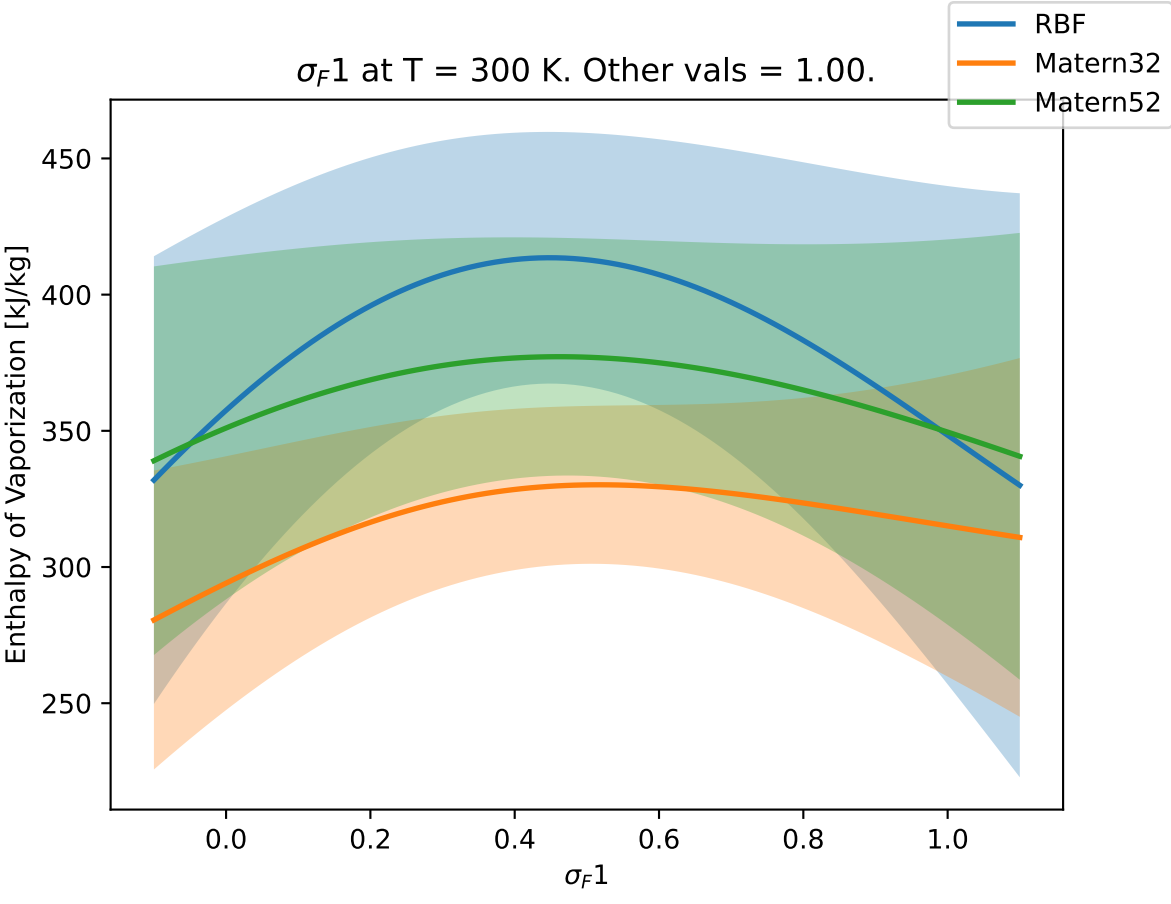

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
200
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

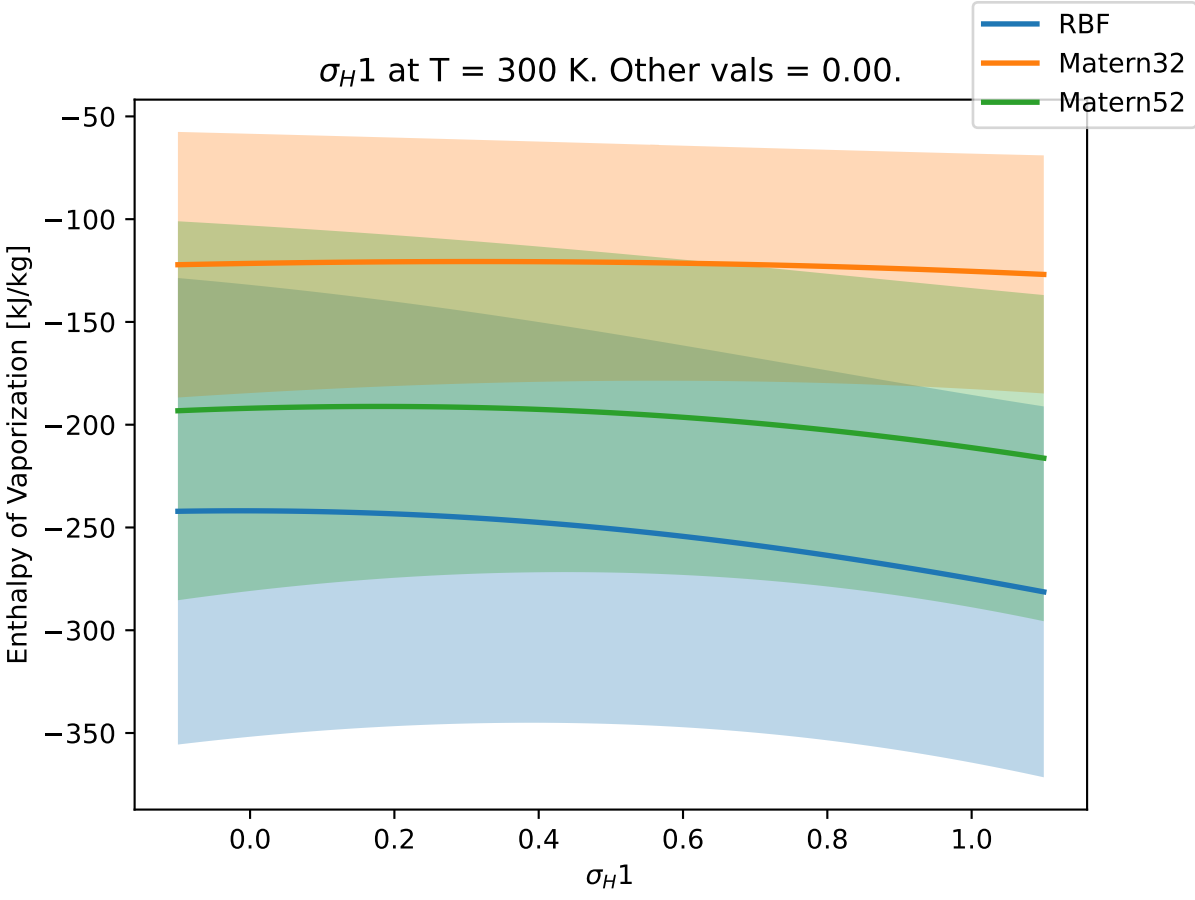

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
225
200
175
150
125
100
75
50
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

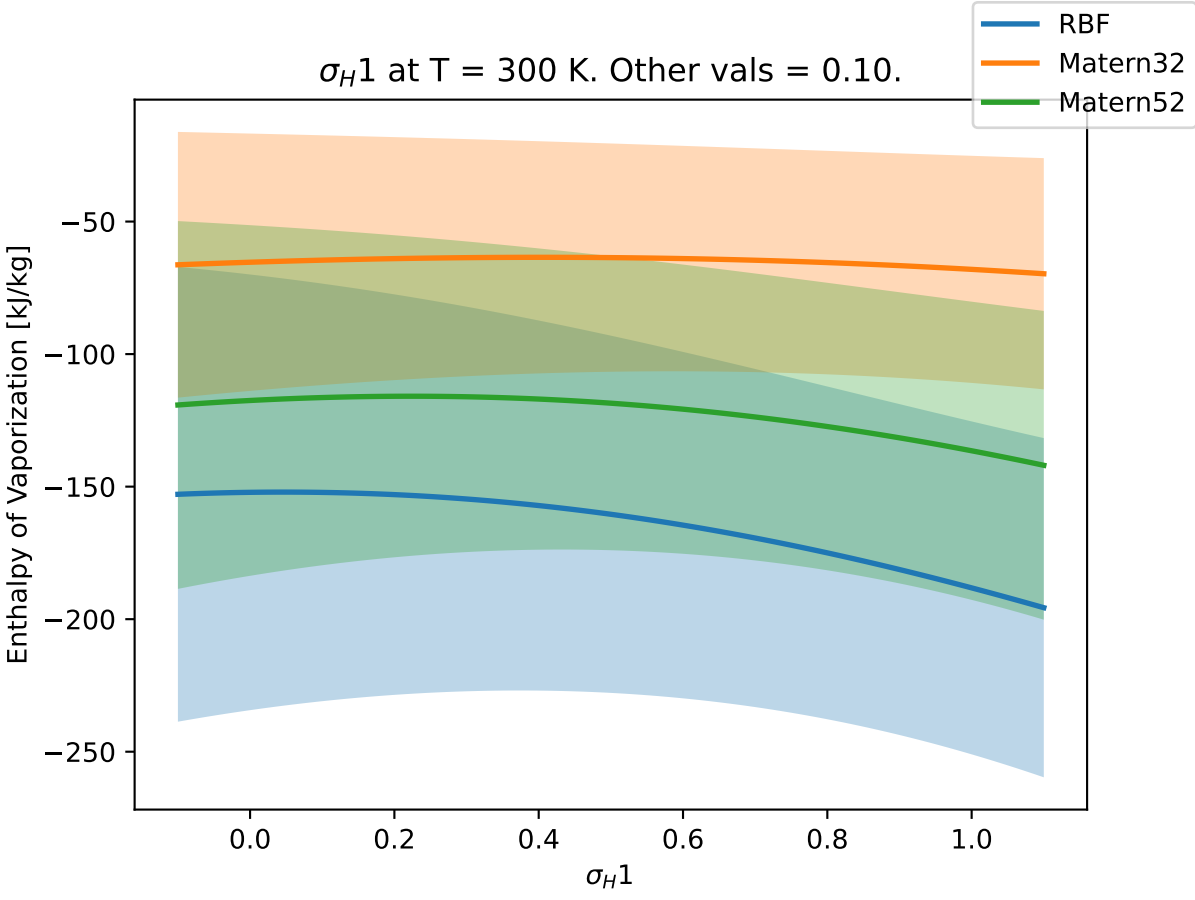

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
275
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

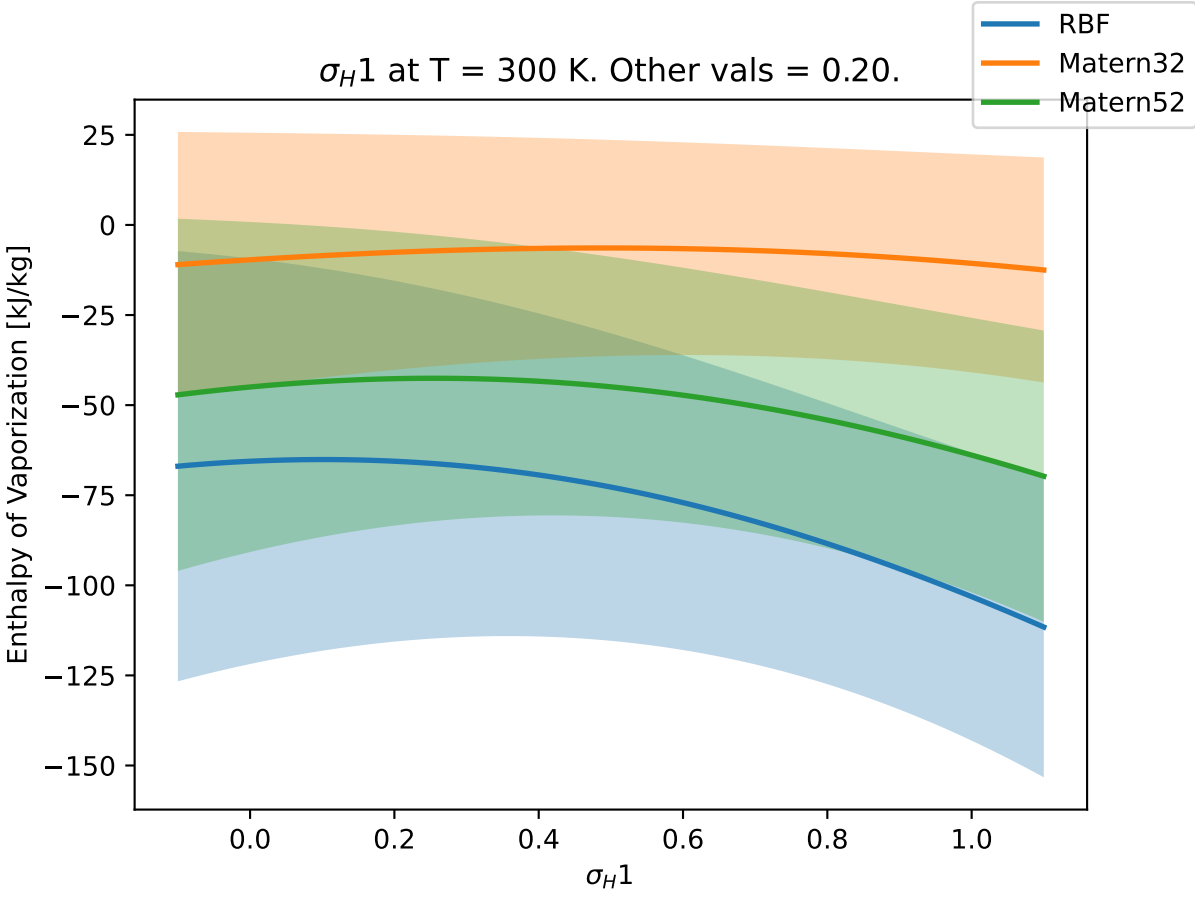

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
350
325
300
275
250
225
200
175
150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

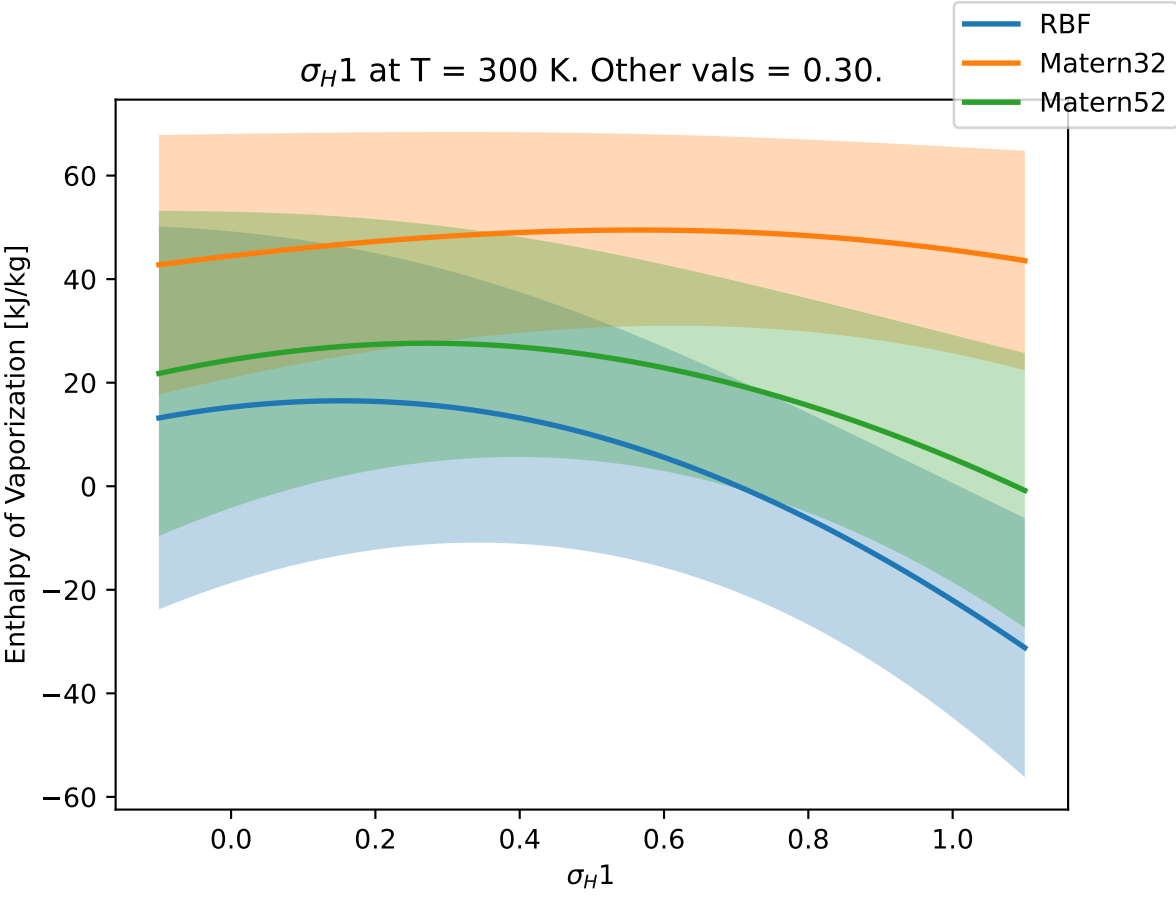

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

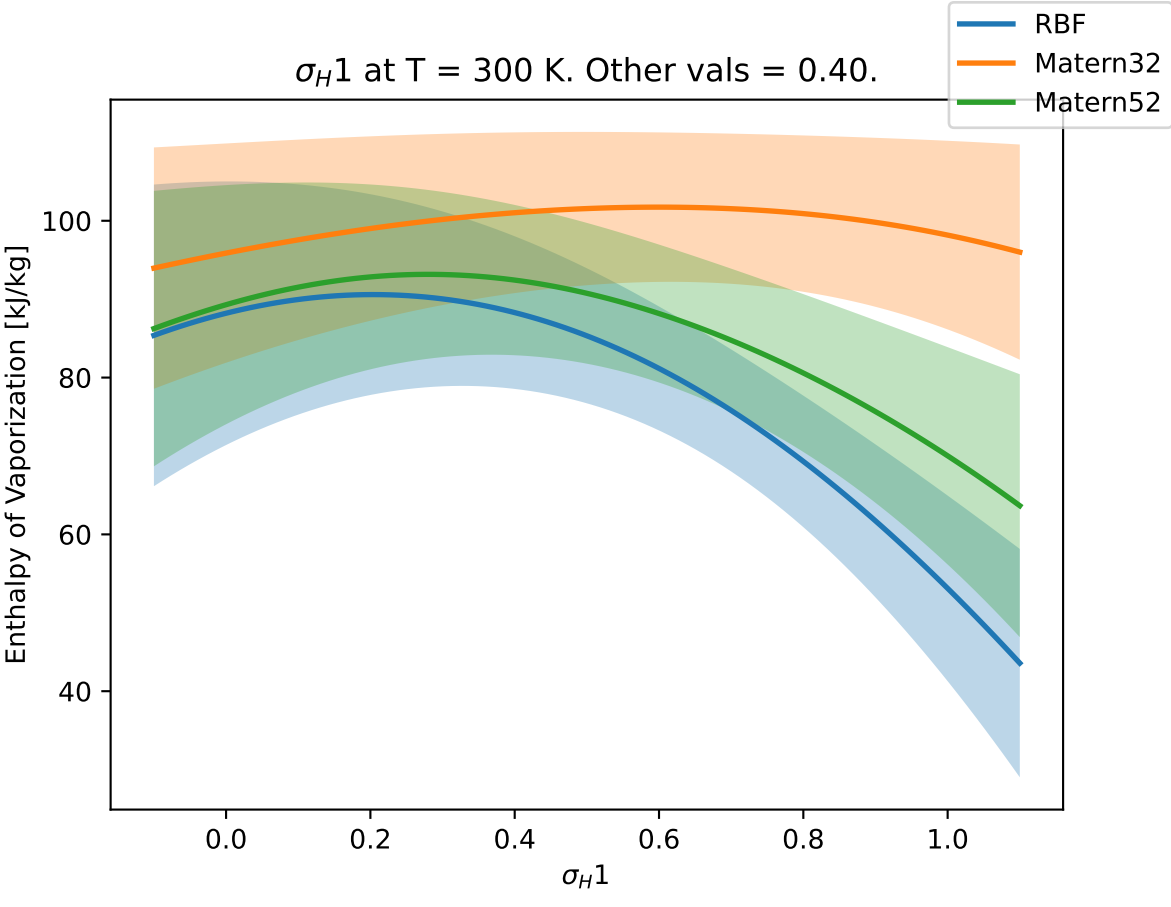

RBF
Matern32
Matern52
$\sigma_F 1$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_F 1$

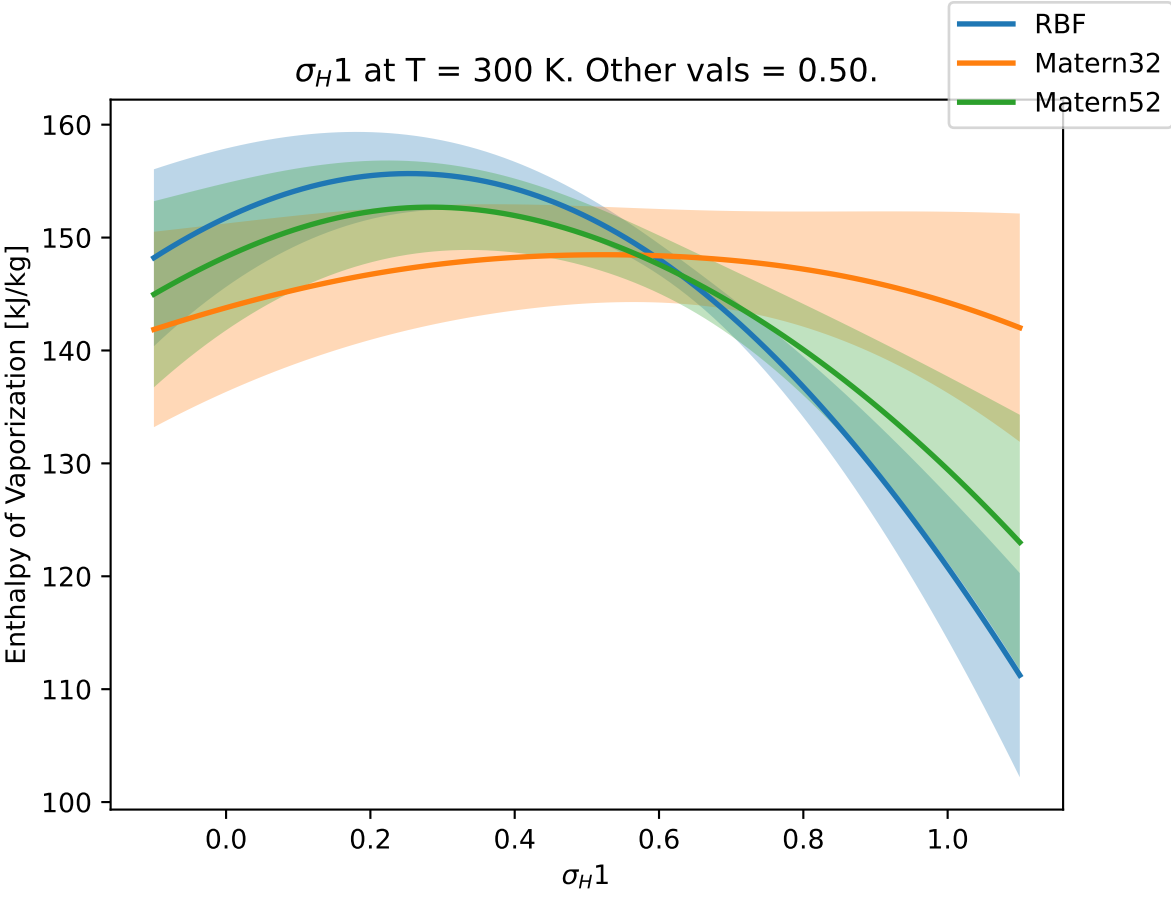

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

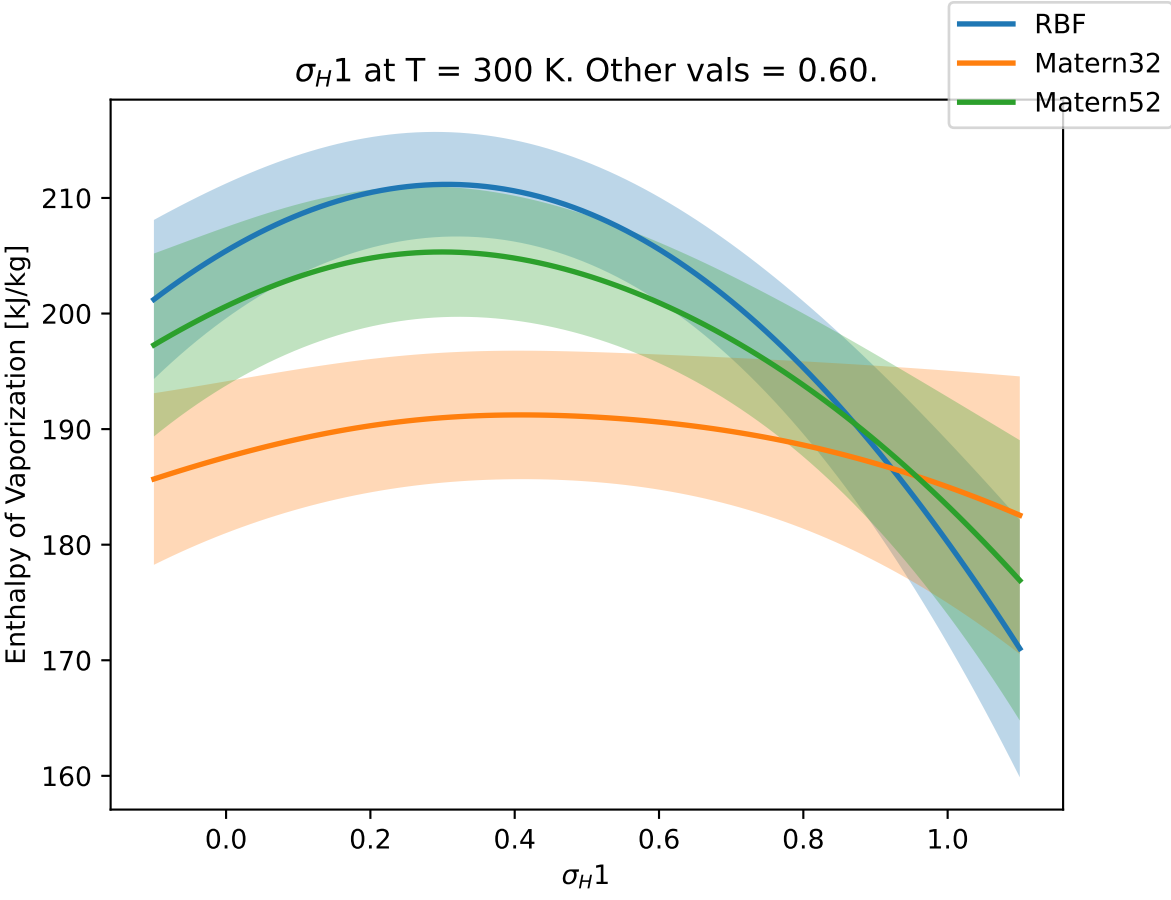

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

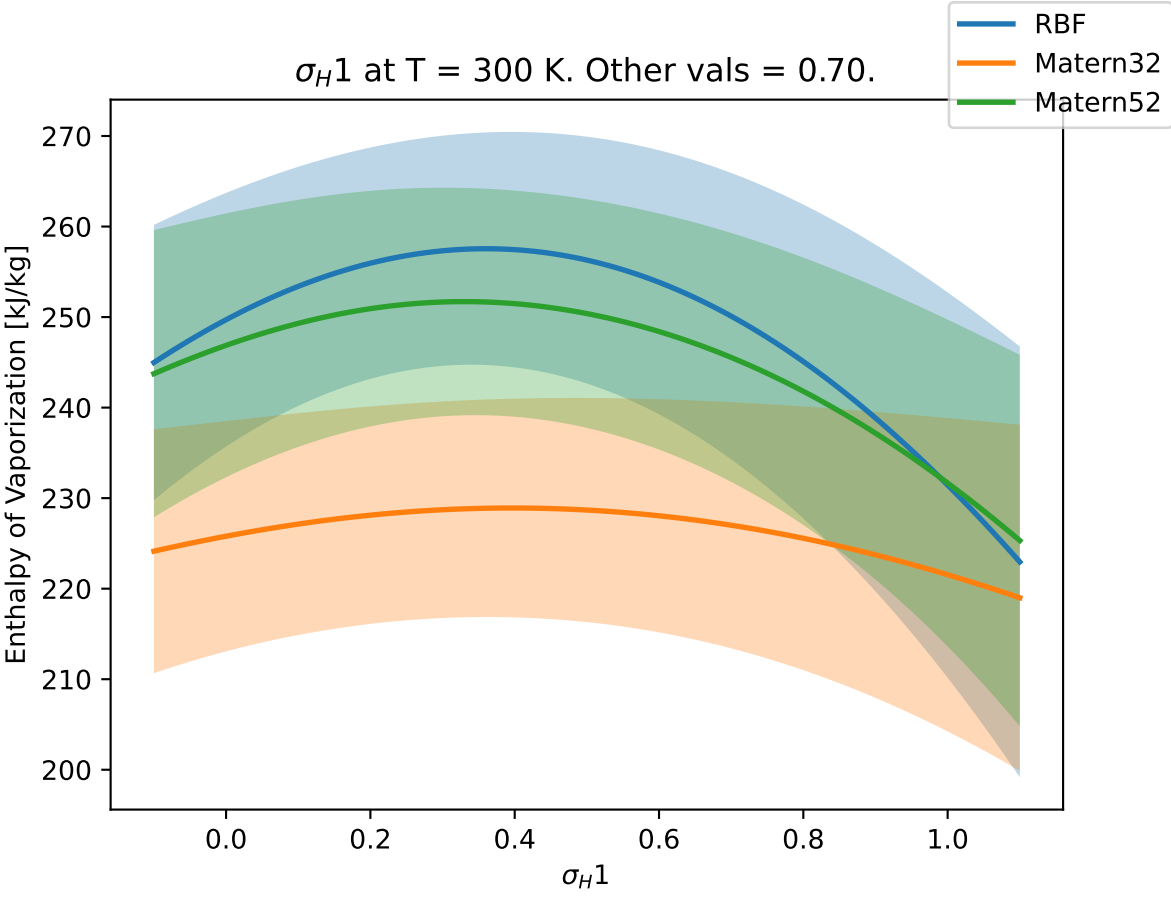

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
25
0
−25
−50
−75
−100
−125
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

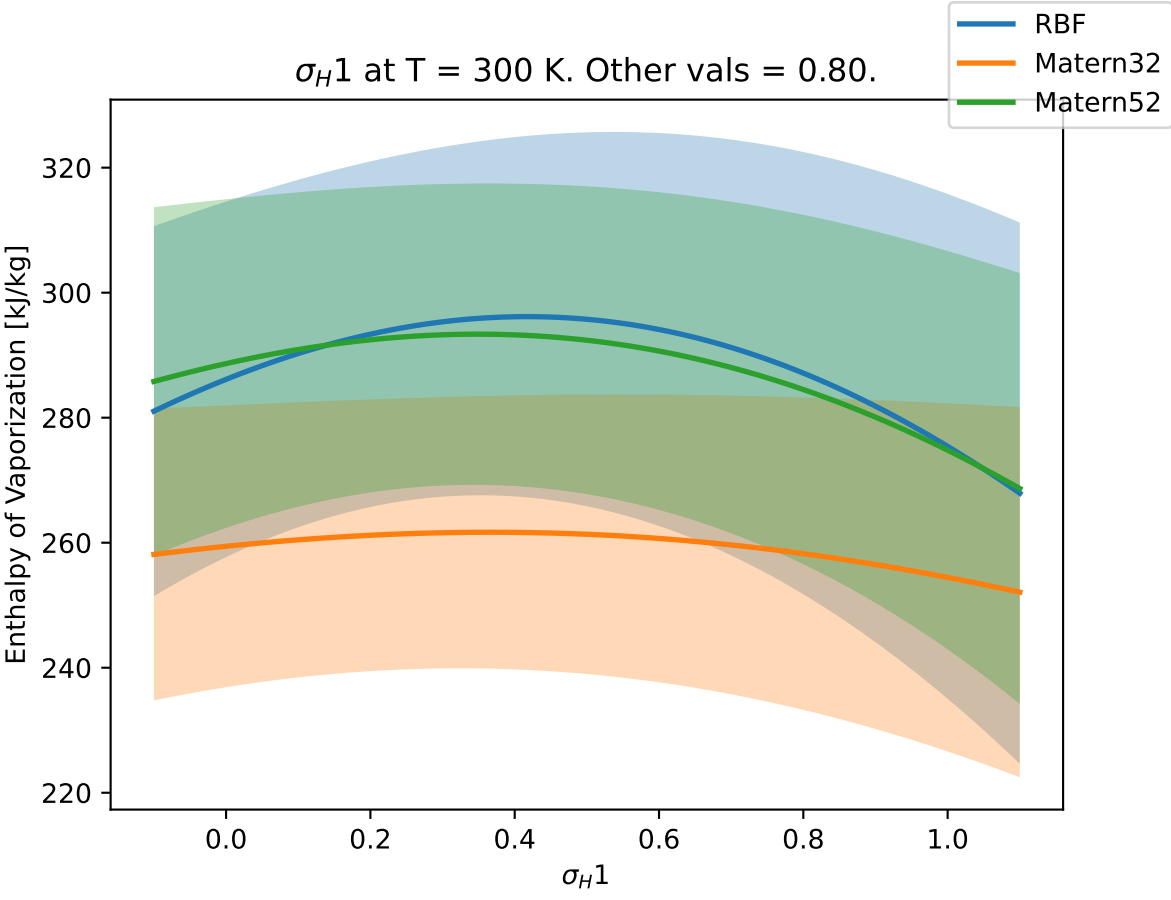

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
60
40
20
0
−20
−40
−60
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

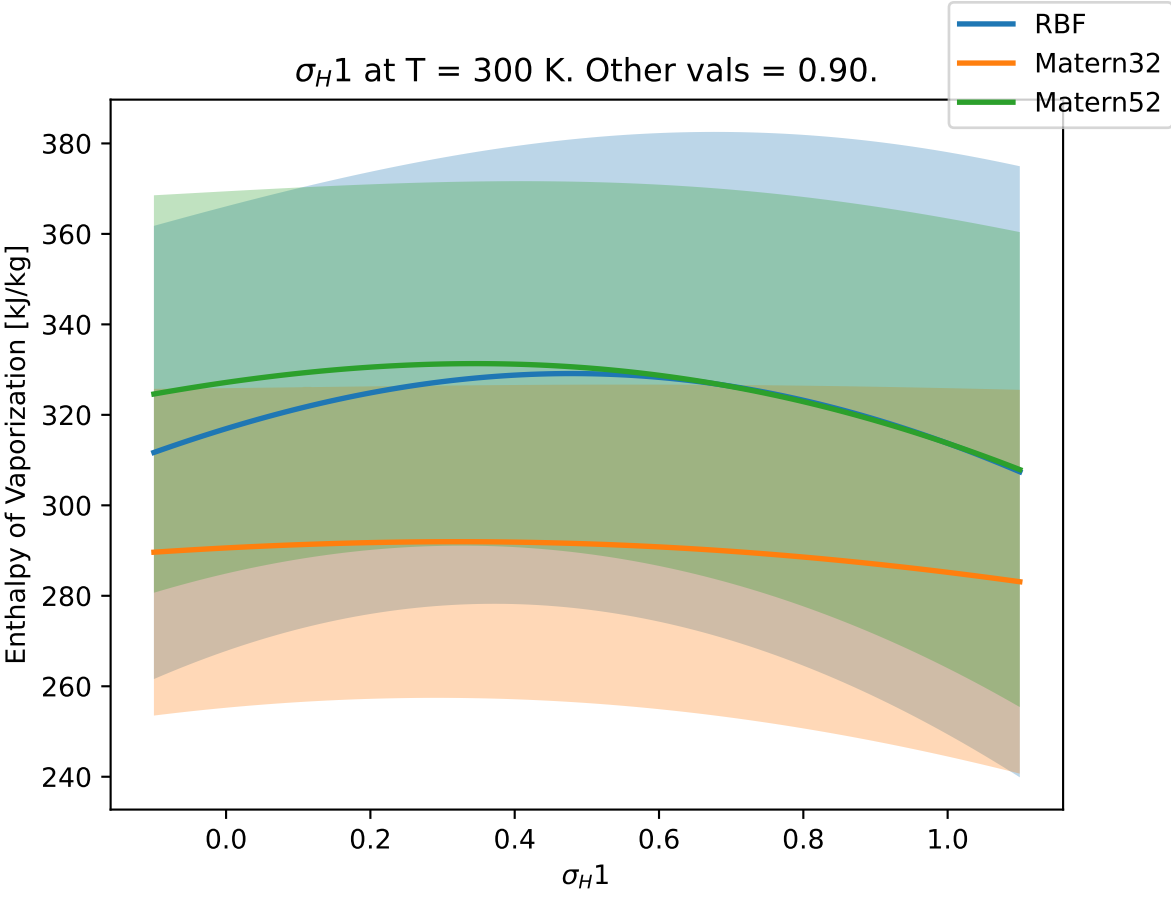

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
100
80
60
40
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

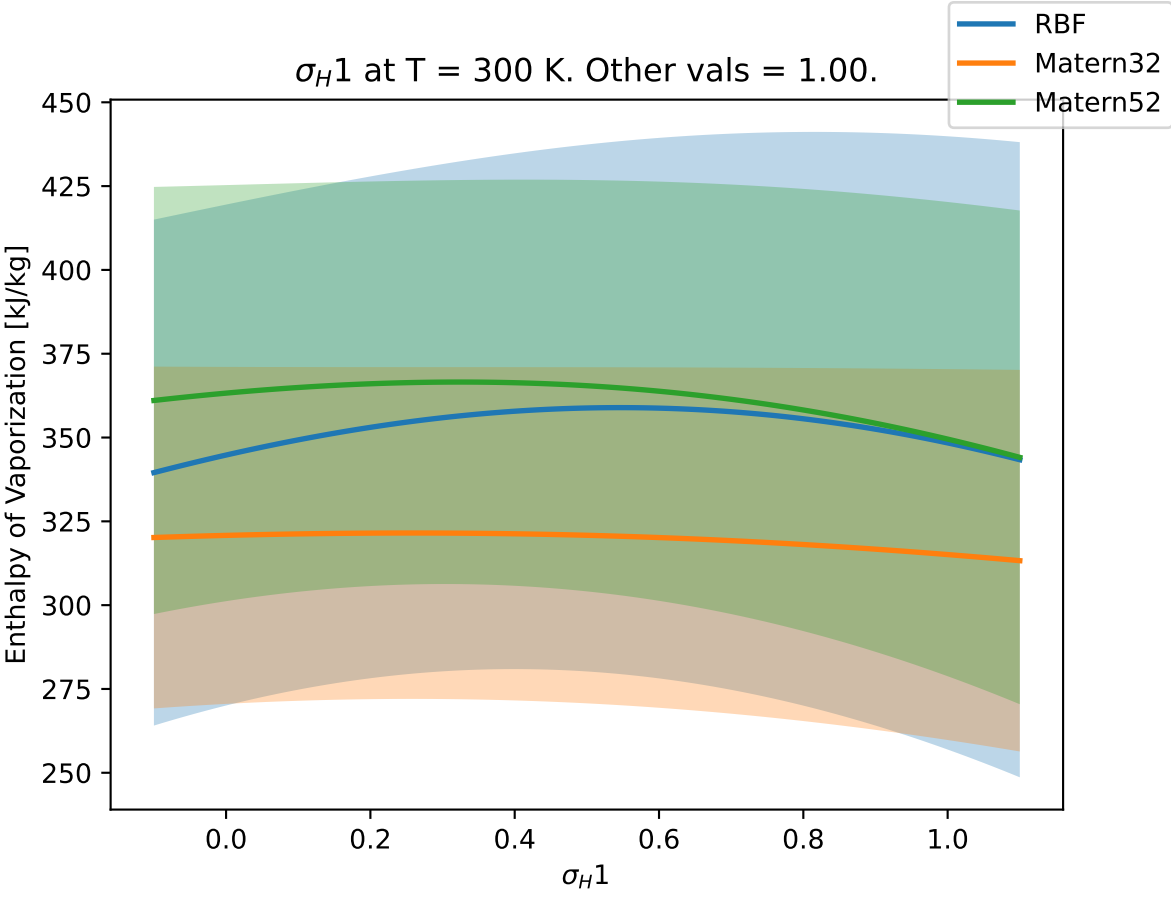

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
160
150
140
130
120
110
100
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

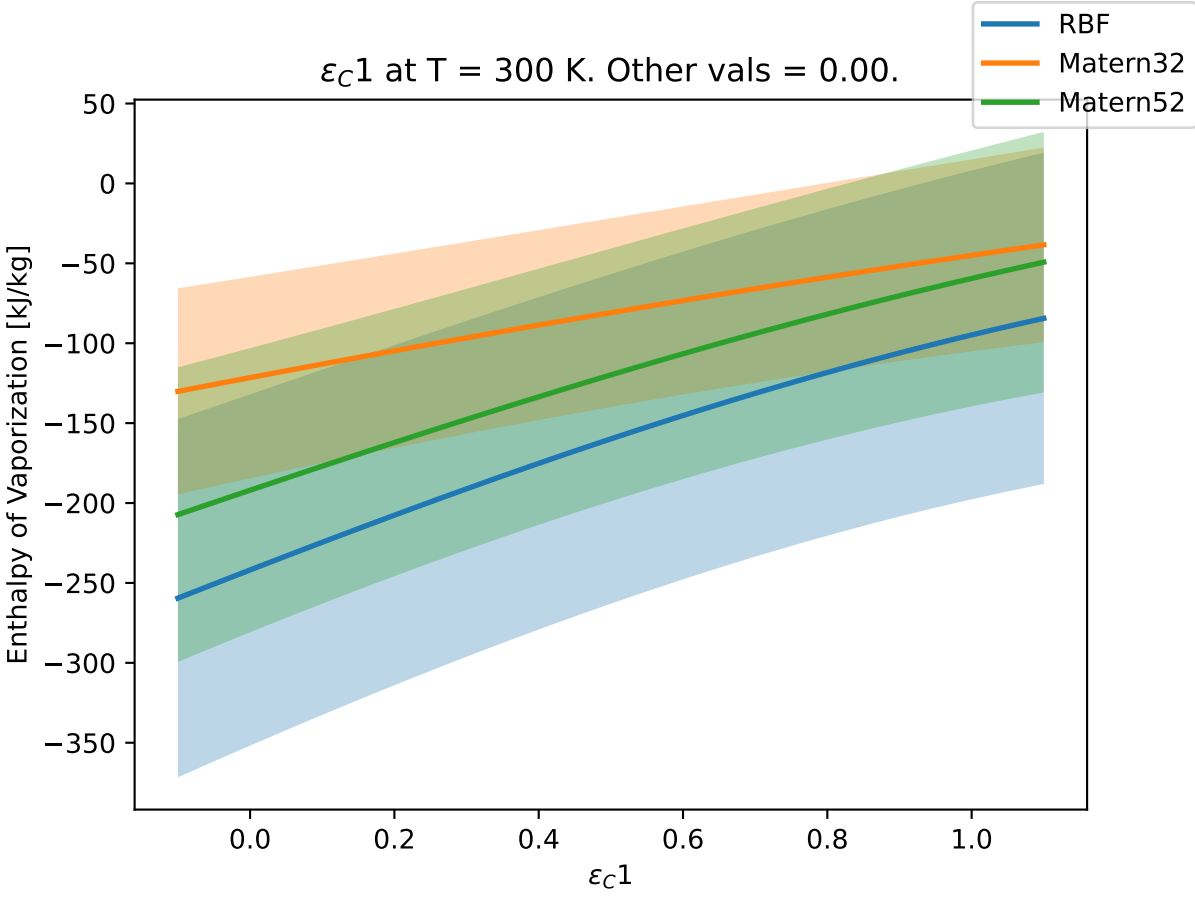

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
210
200
190
180
170
160
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

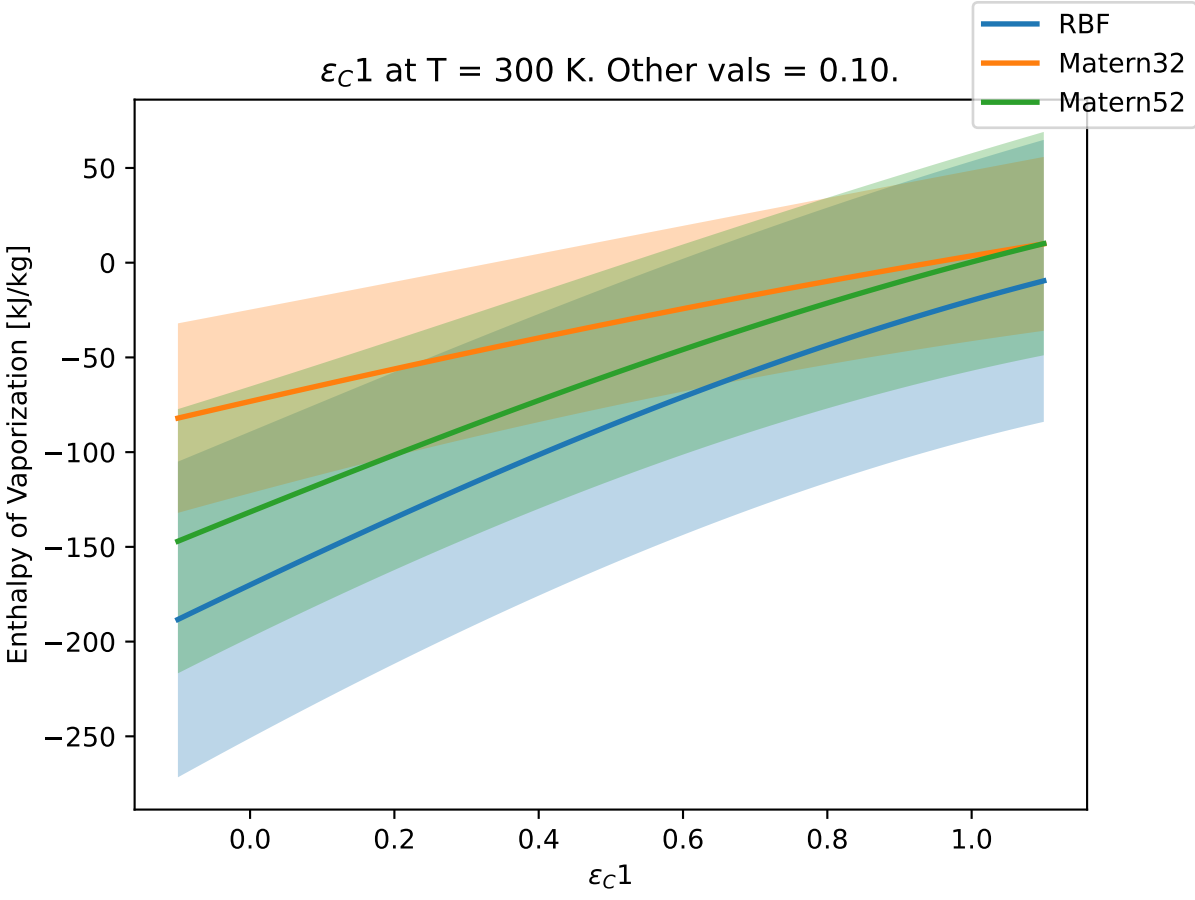

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
270
260
250
240
230
220
210
200
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

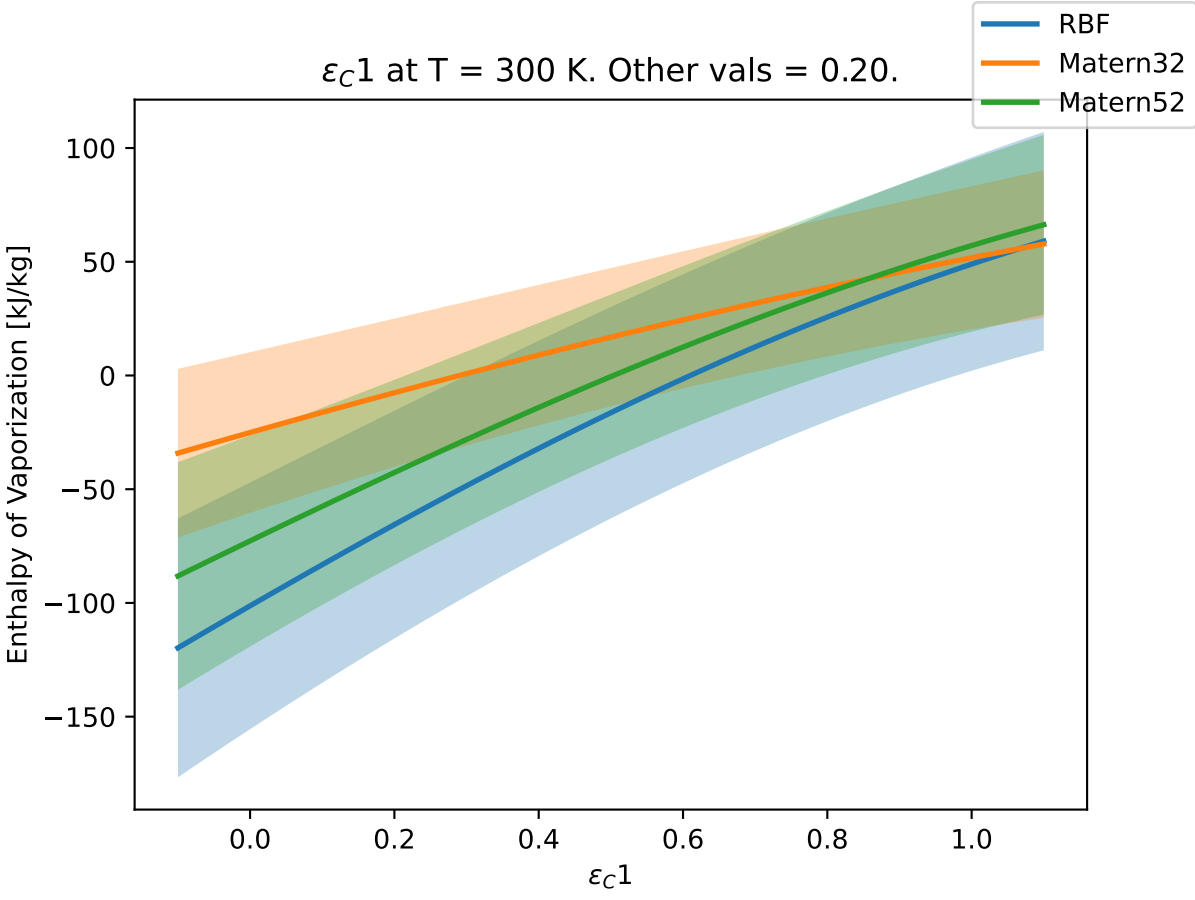

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
320
300
280
260
240
220
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

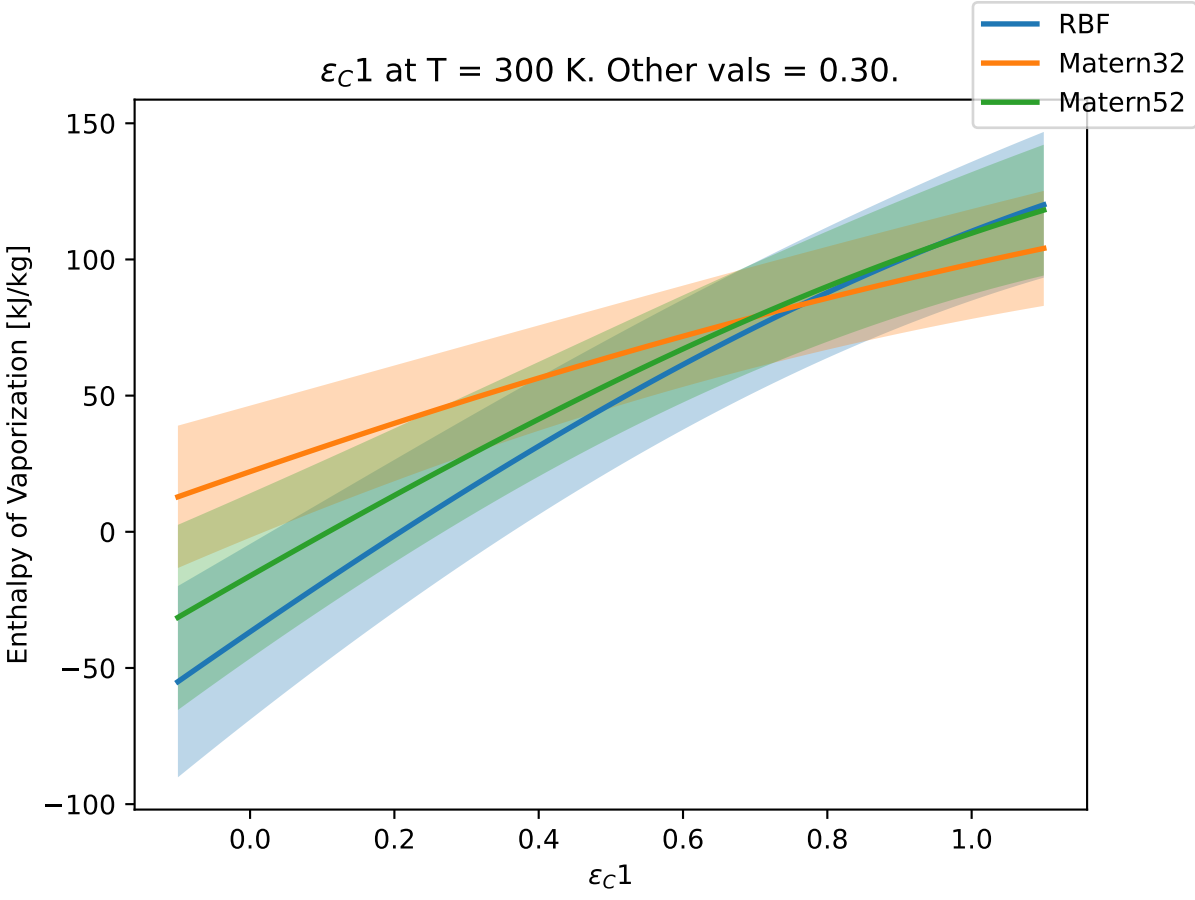

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
380
360
340
320
300
280
260
240
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

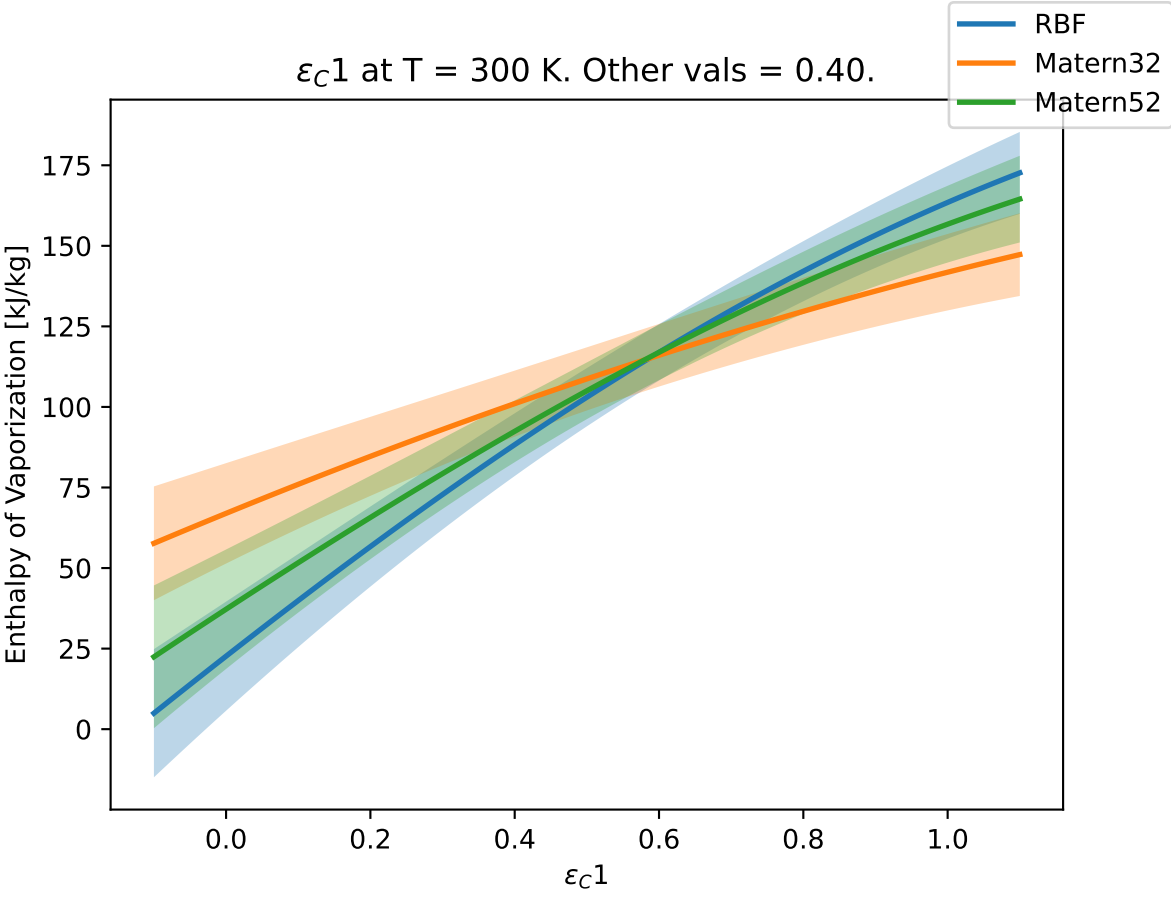

RBF
Matern32
Matern52
$\sigma_H 1$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
425
400
375
350
325
300
275
250
0.0
0.2
0.4
0.6
0.8
1.0
$\sigma_H 1$

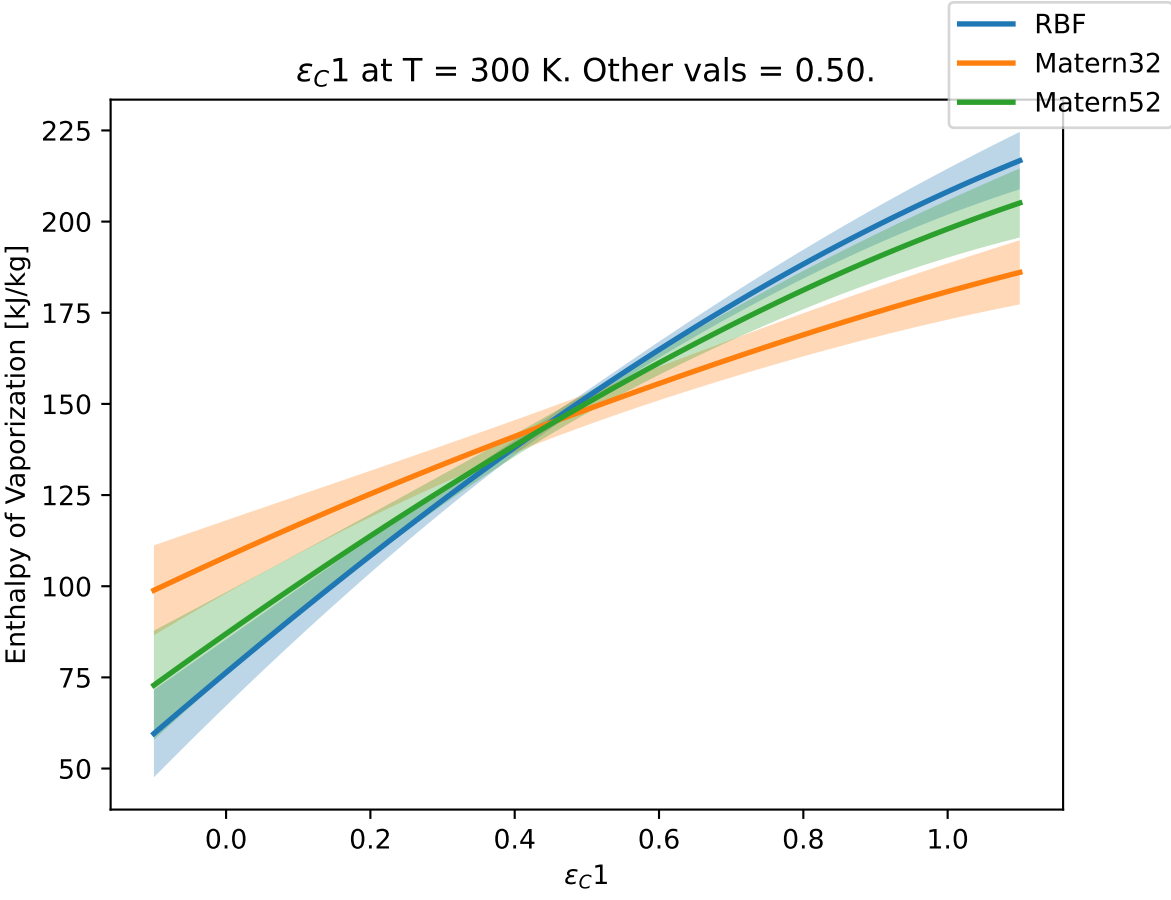

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

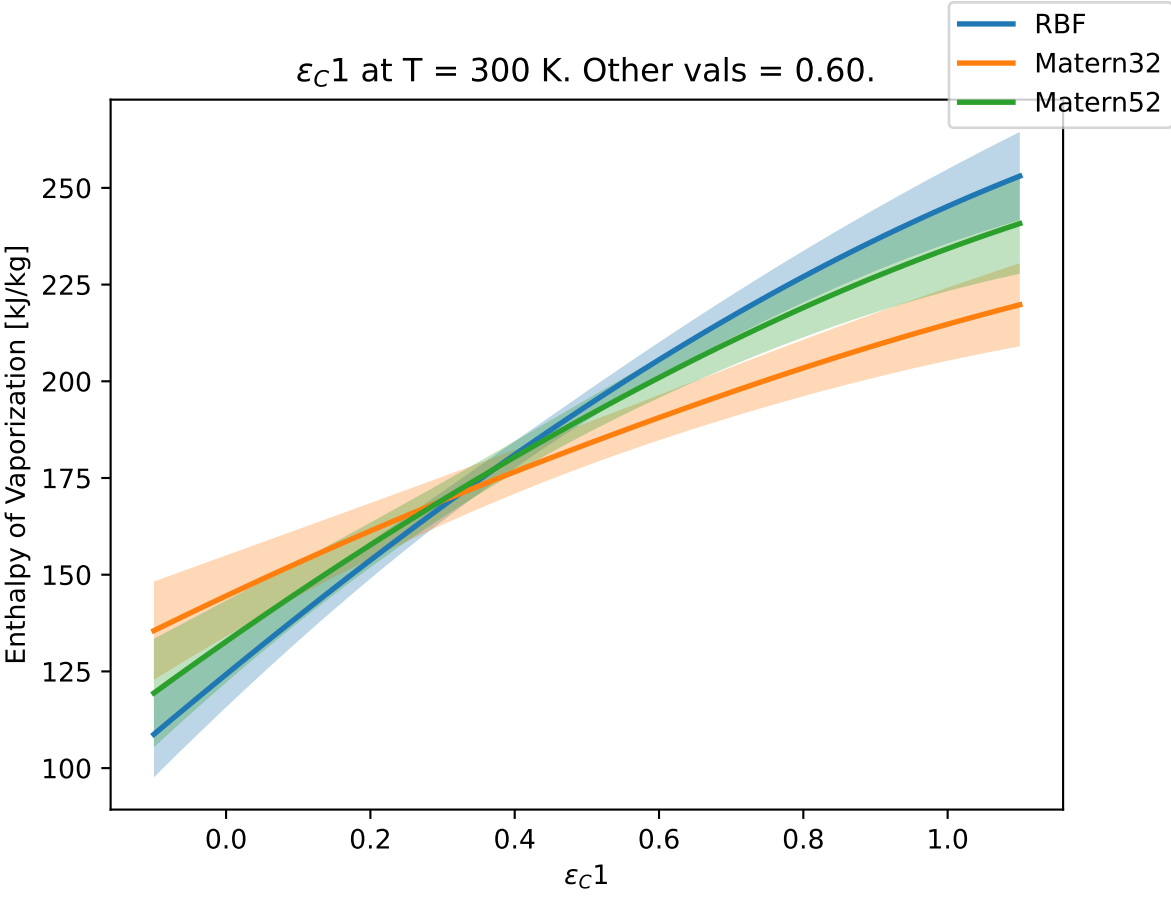

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

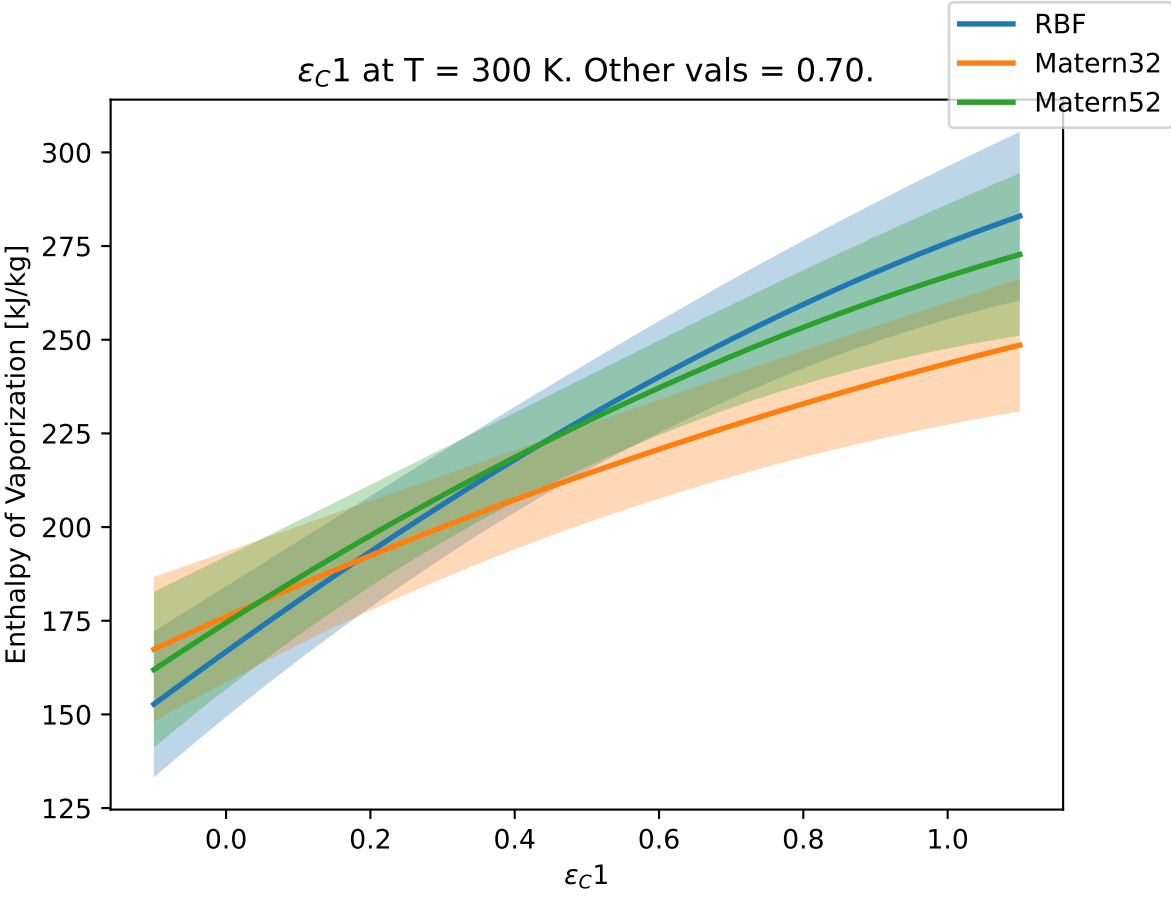

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

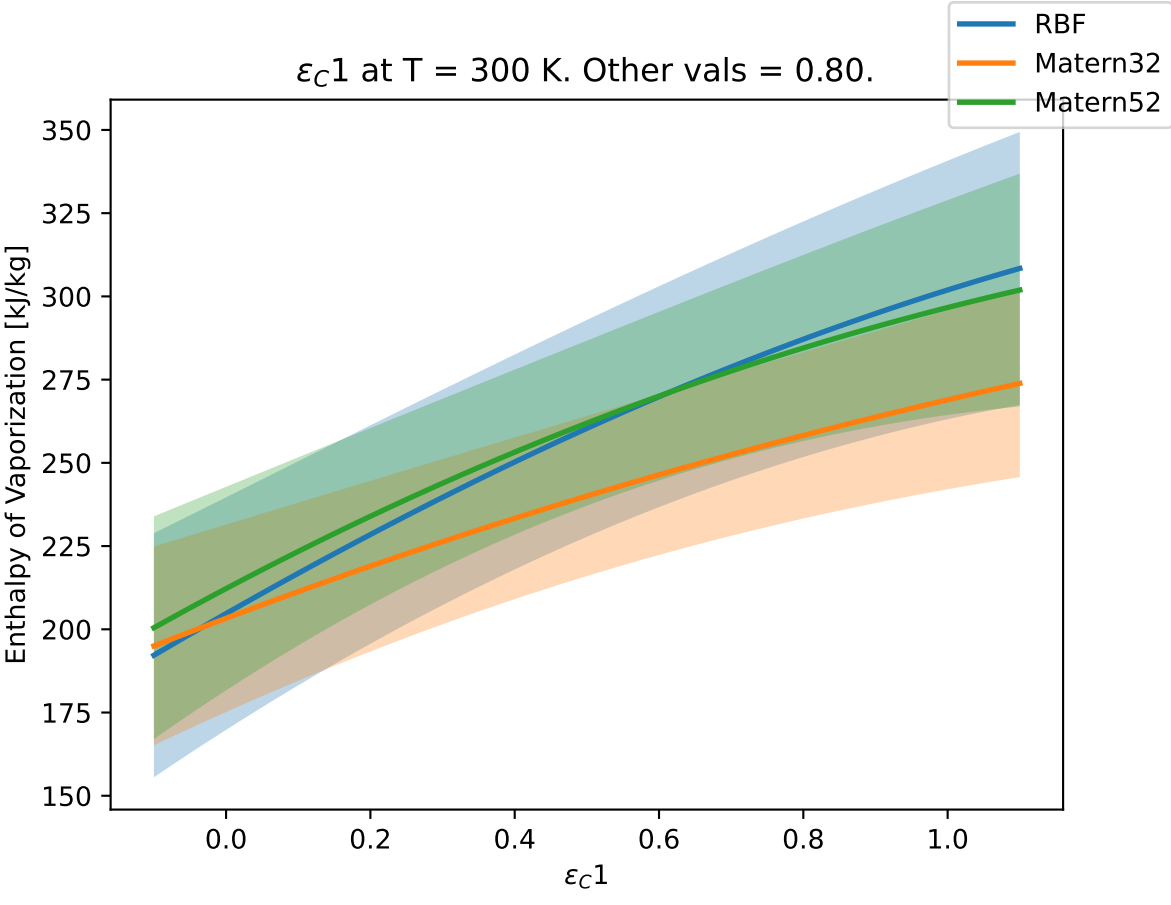

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
150
100
50
0
−50
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

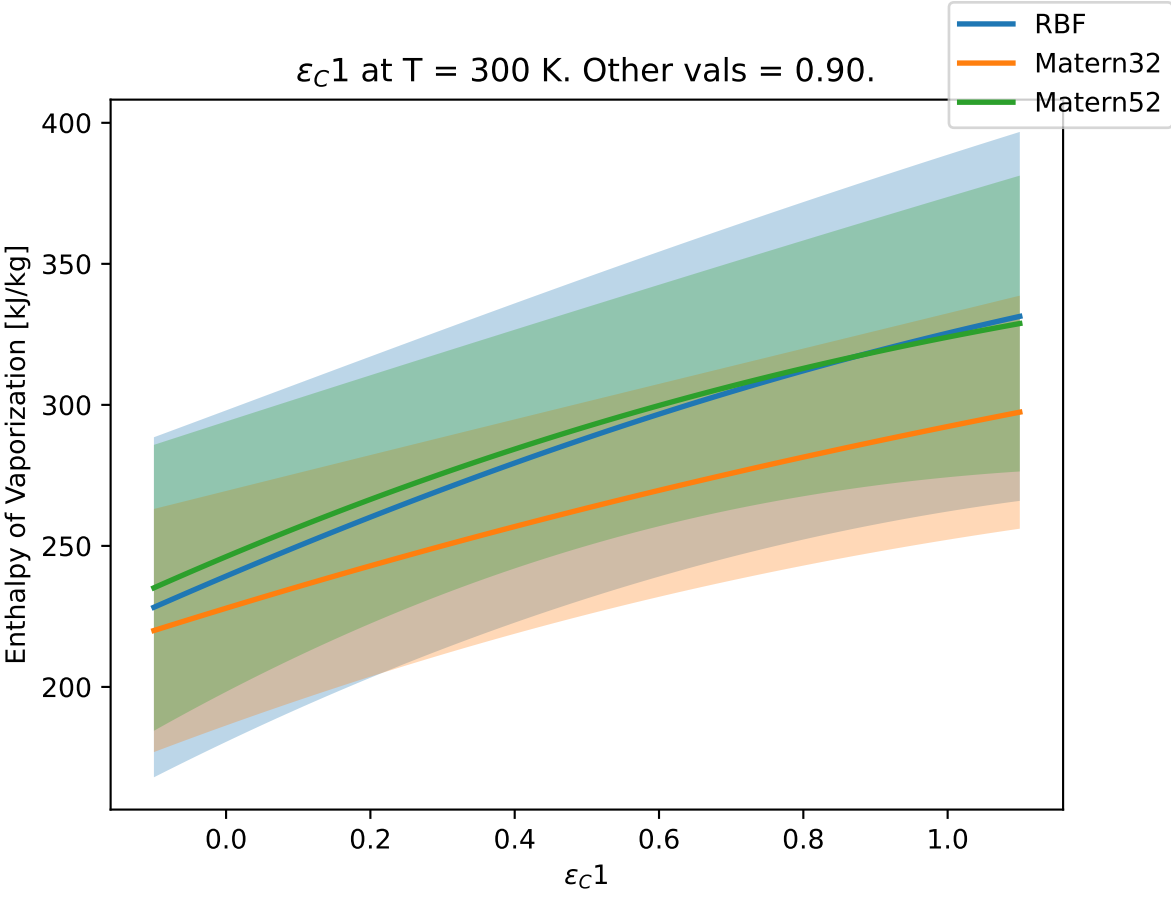

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

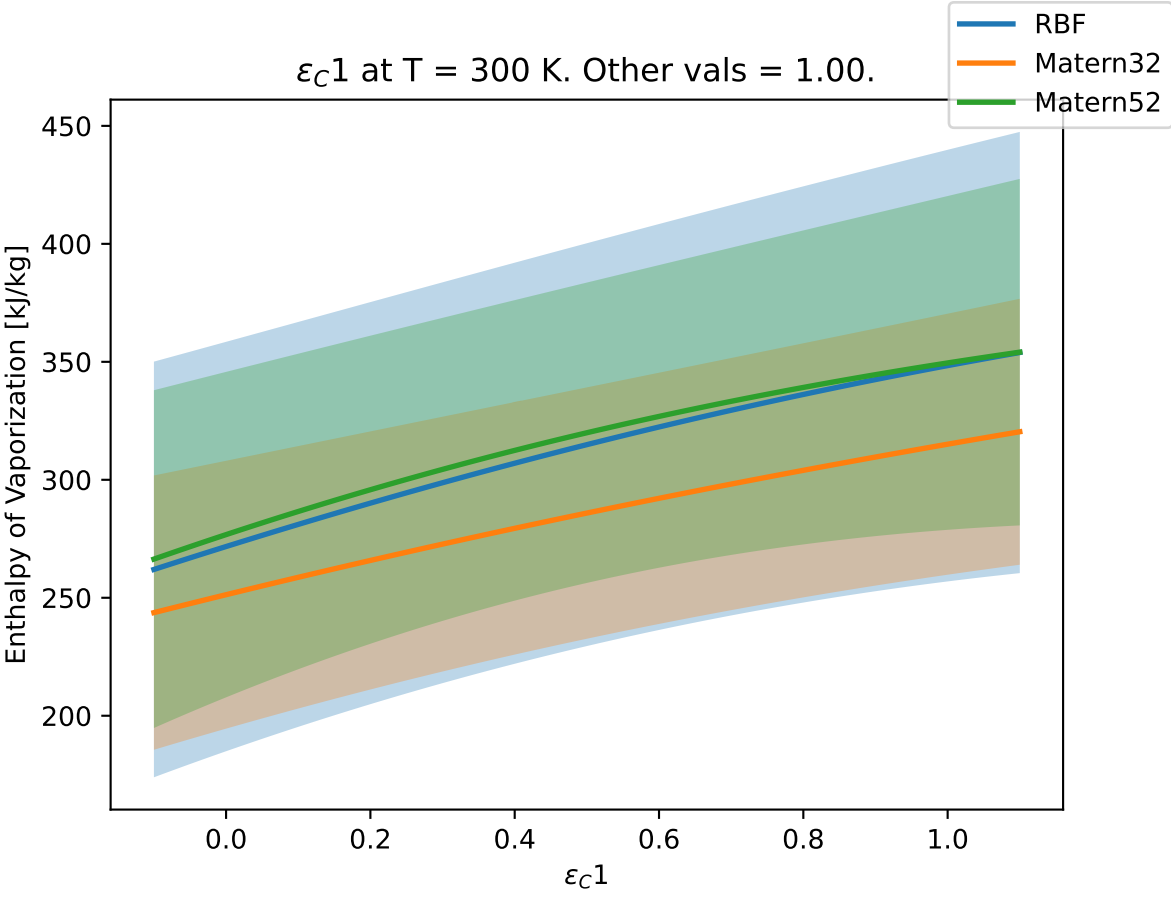

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
225
200
175
150
125
100
75
50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

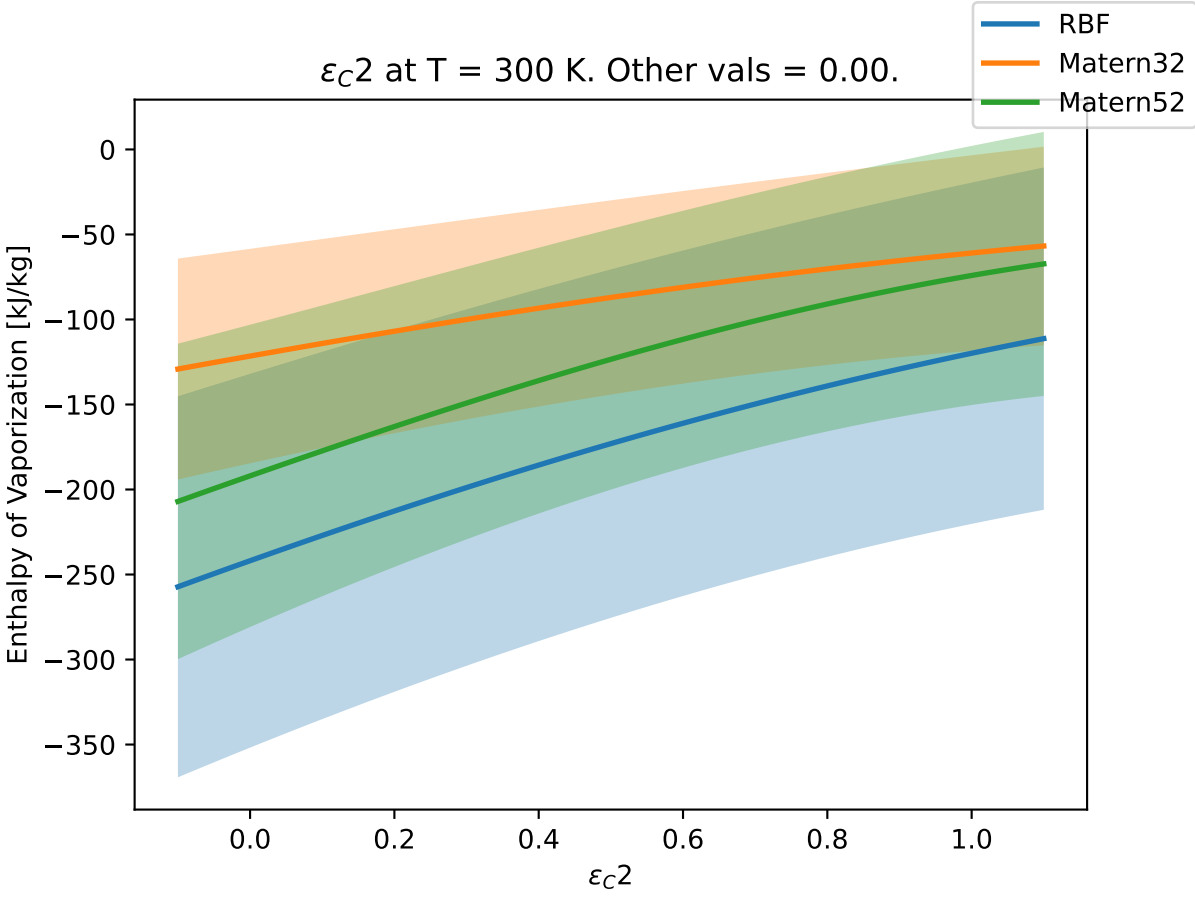

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
250
225
200
175
150
125
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

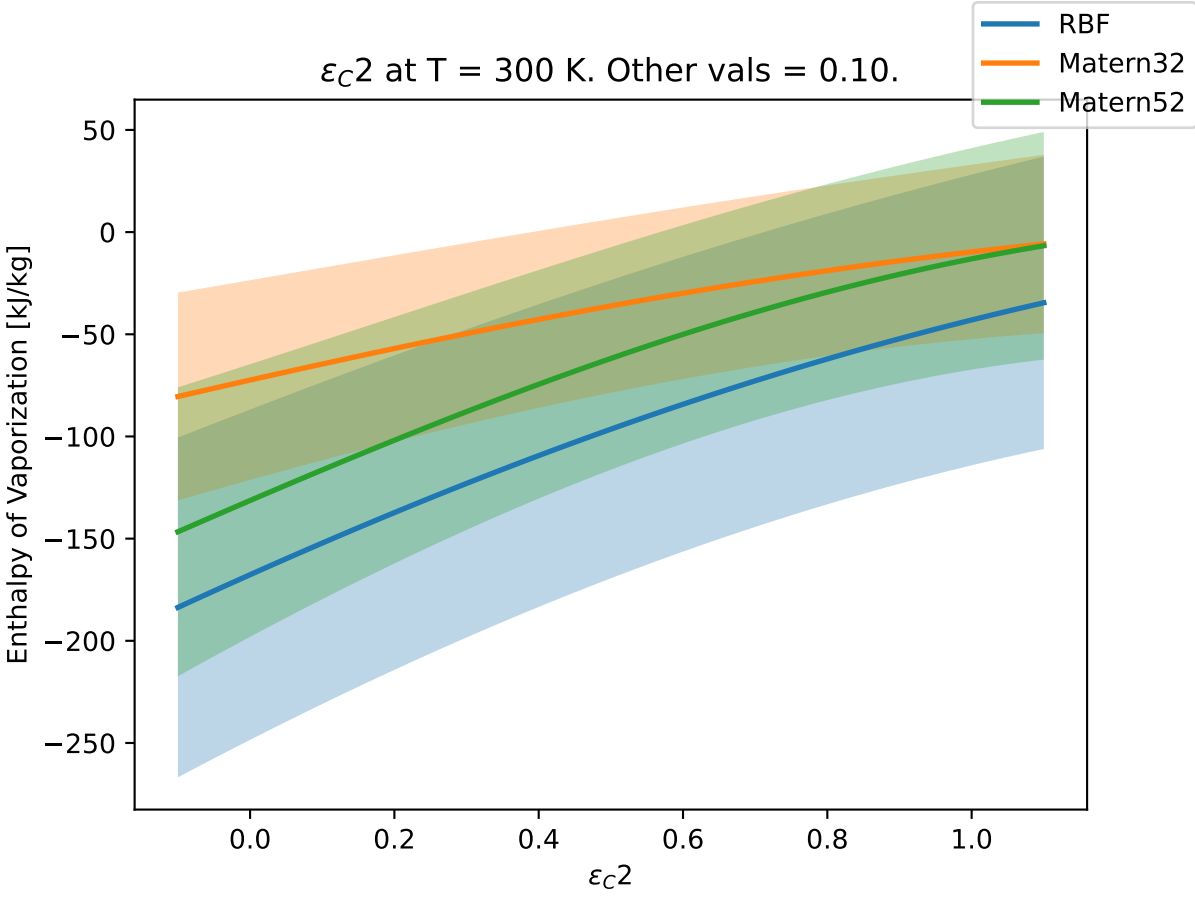

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
300
275
250
225
200
175
150
125
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

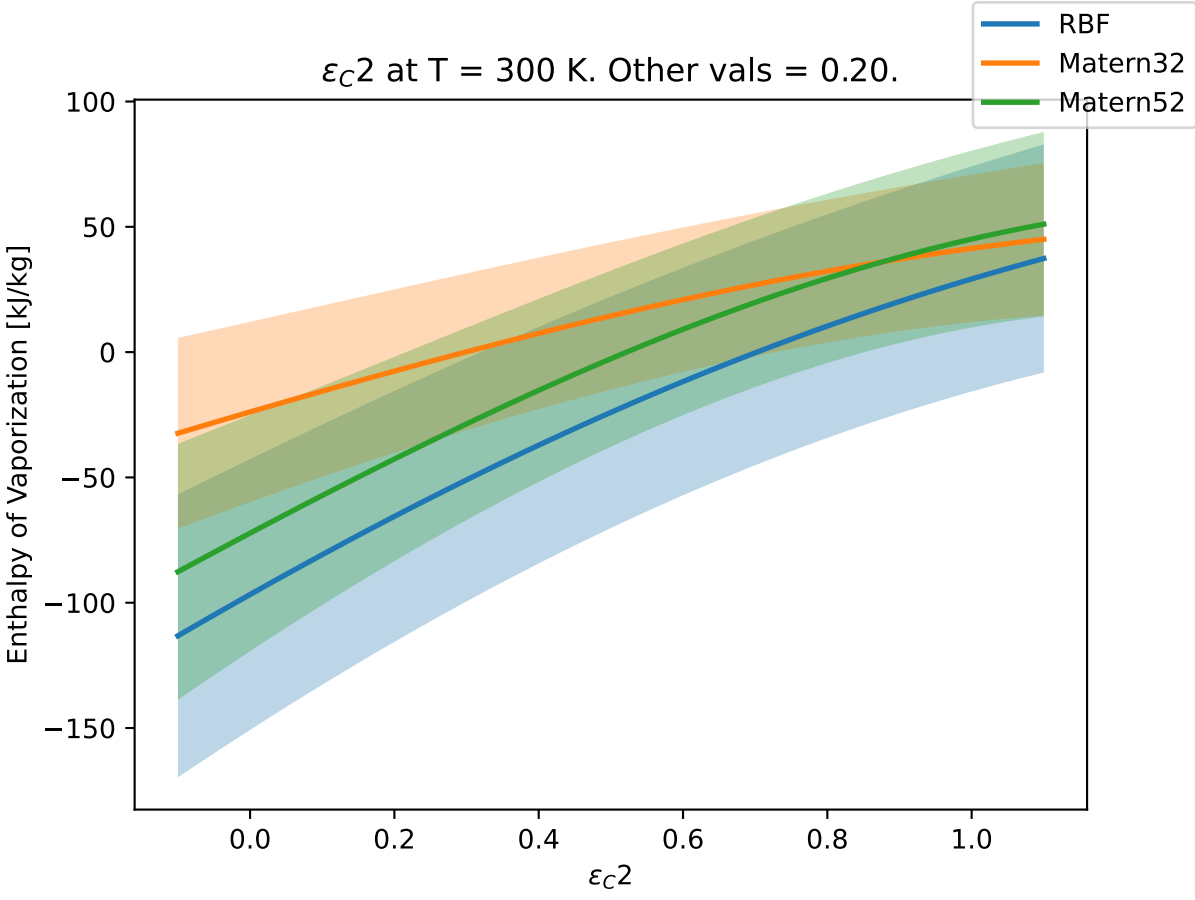

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
350
325
300
275
250
225
200
175
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

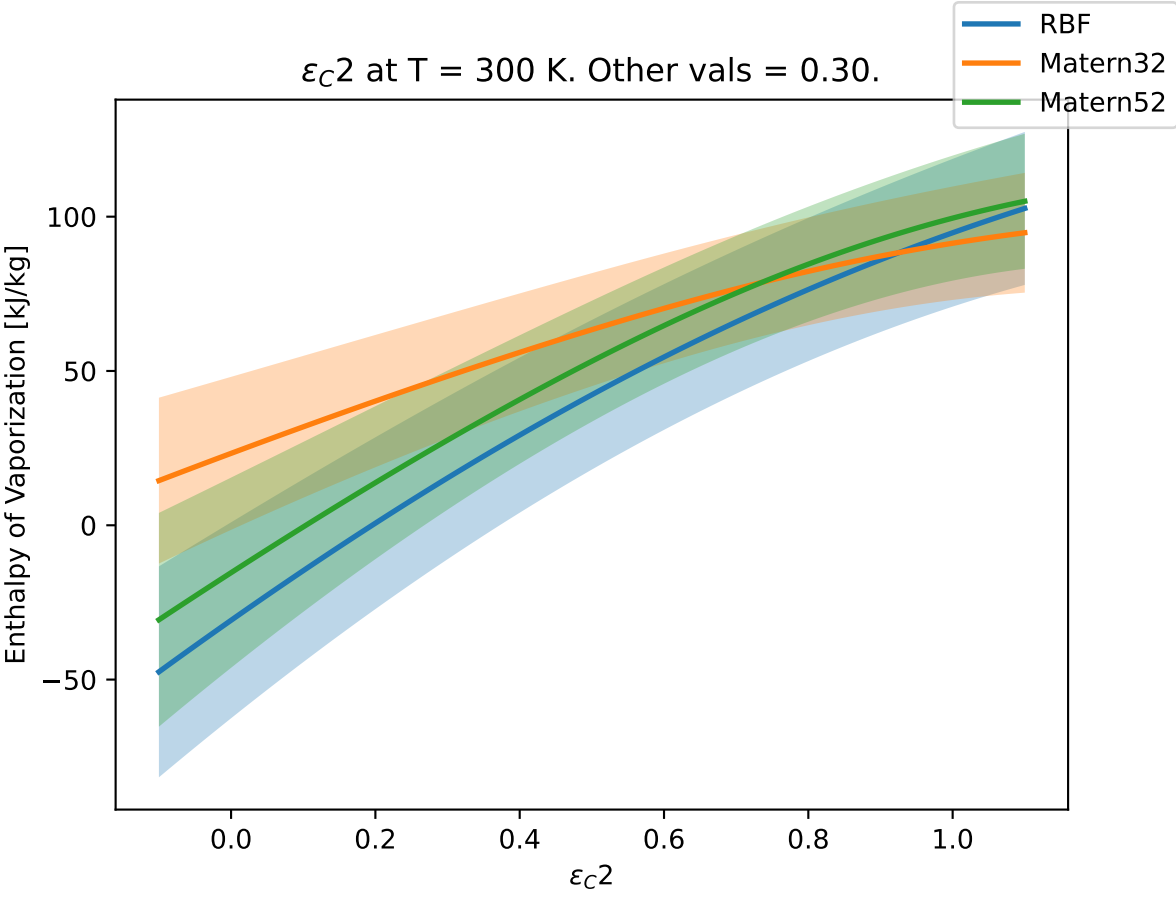

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

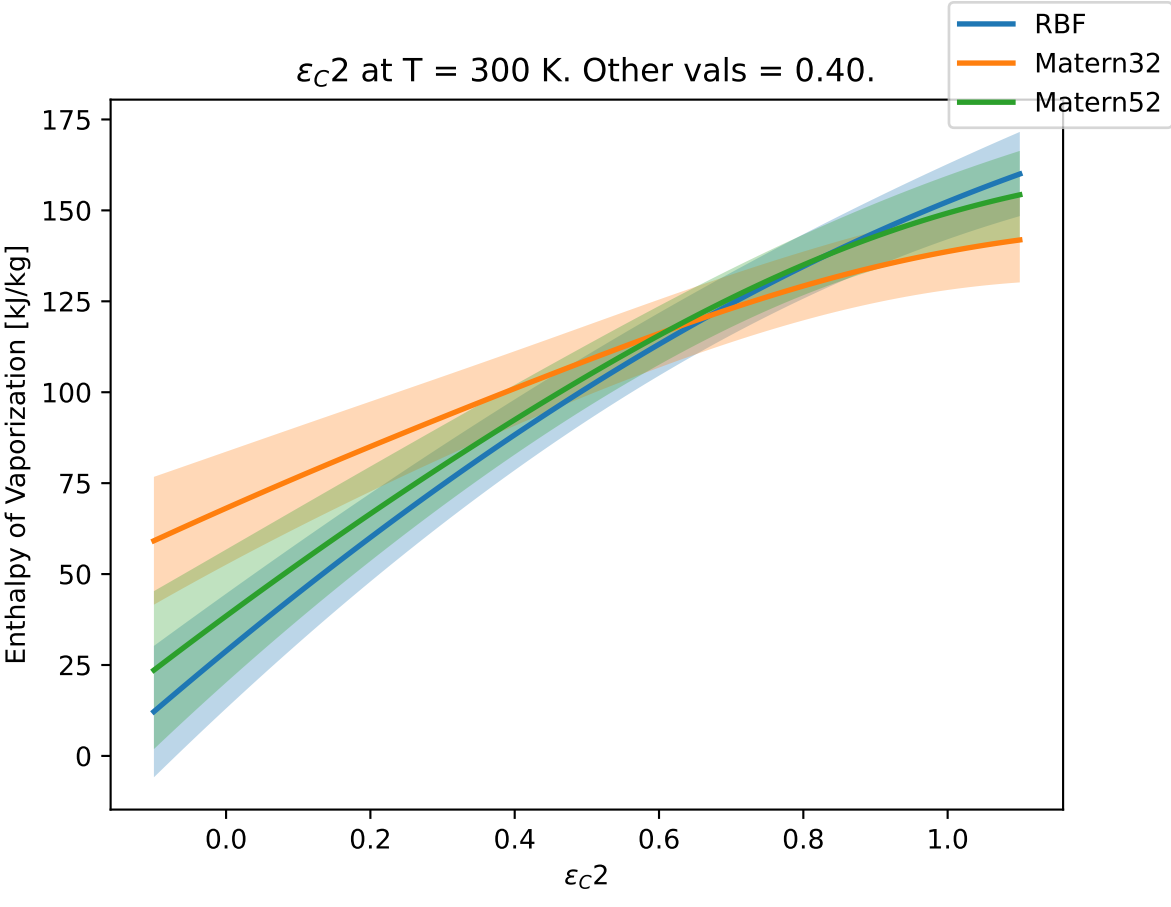

RBF
Matern32
Matern52
$\varepsilon_C 1$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 1$

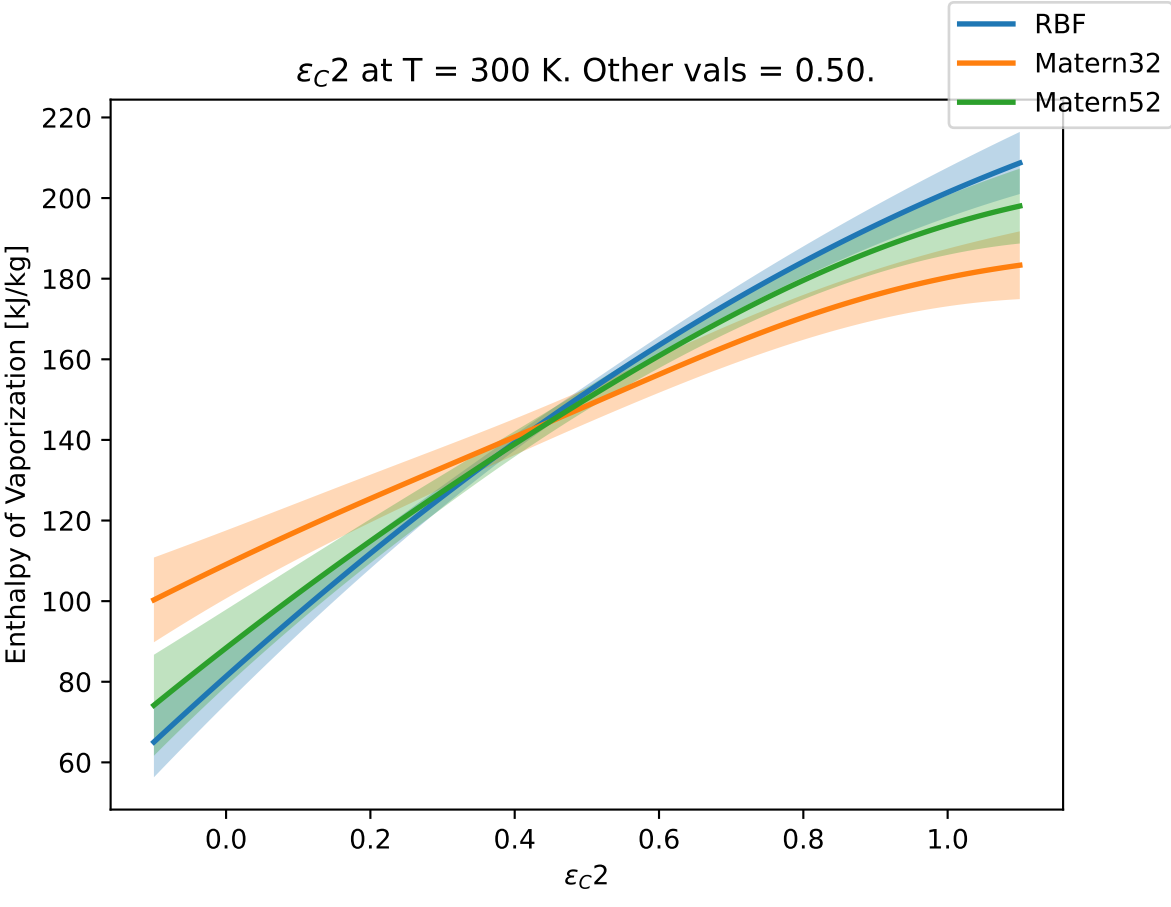

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

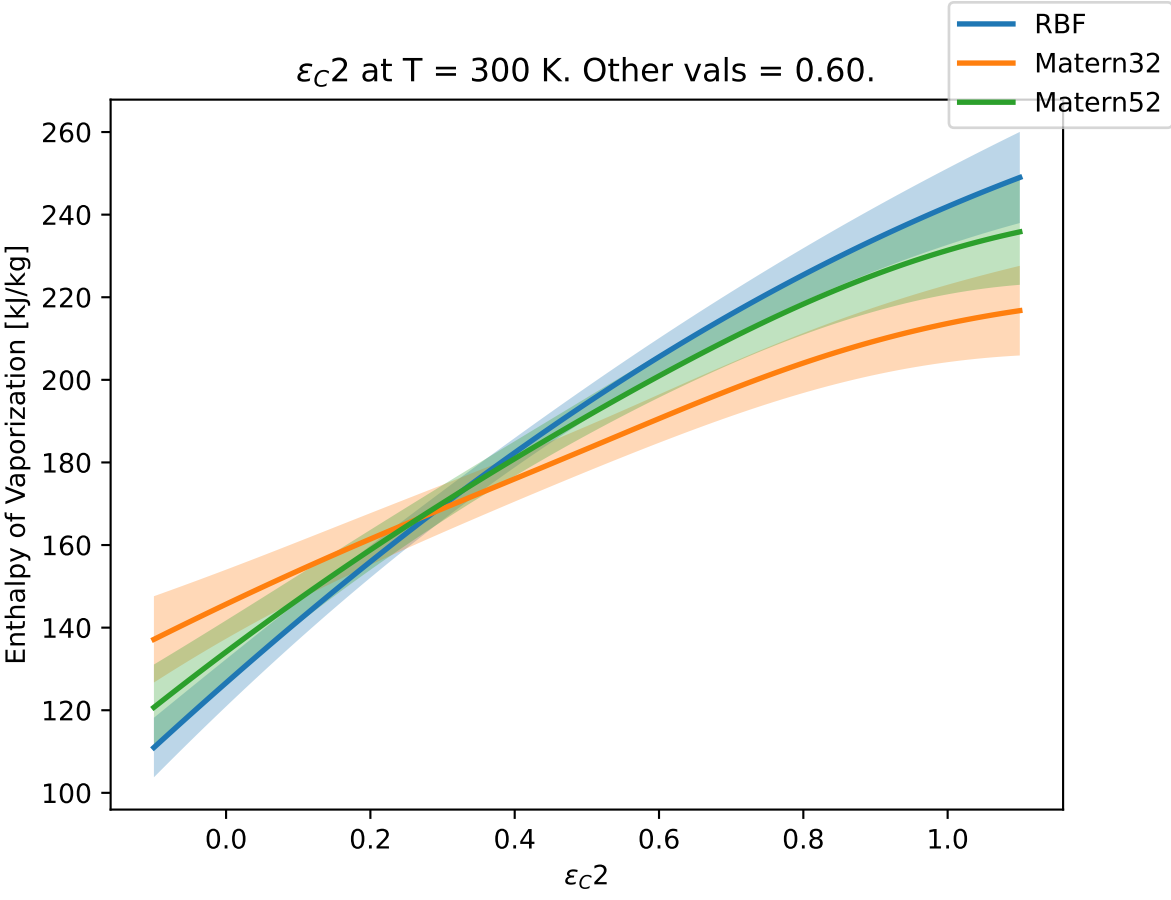

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

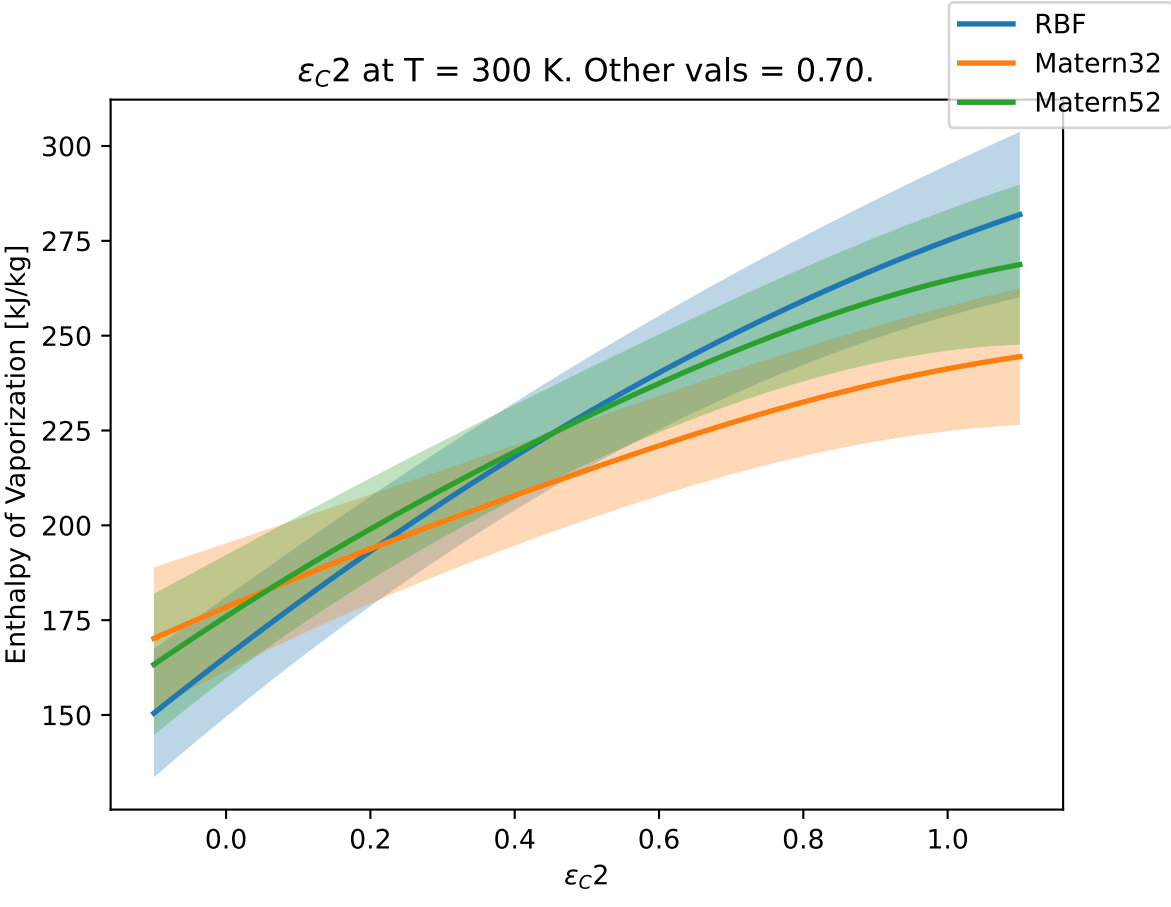

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

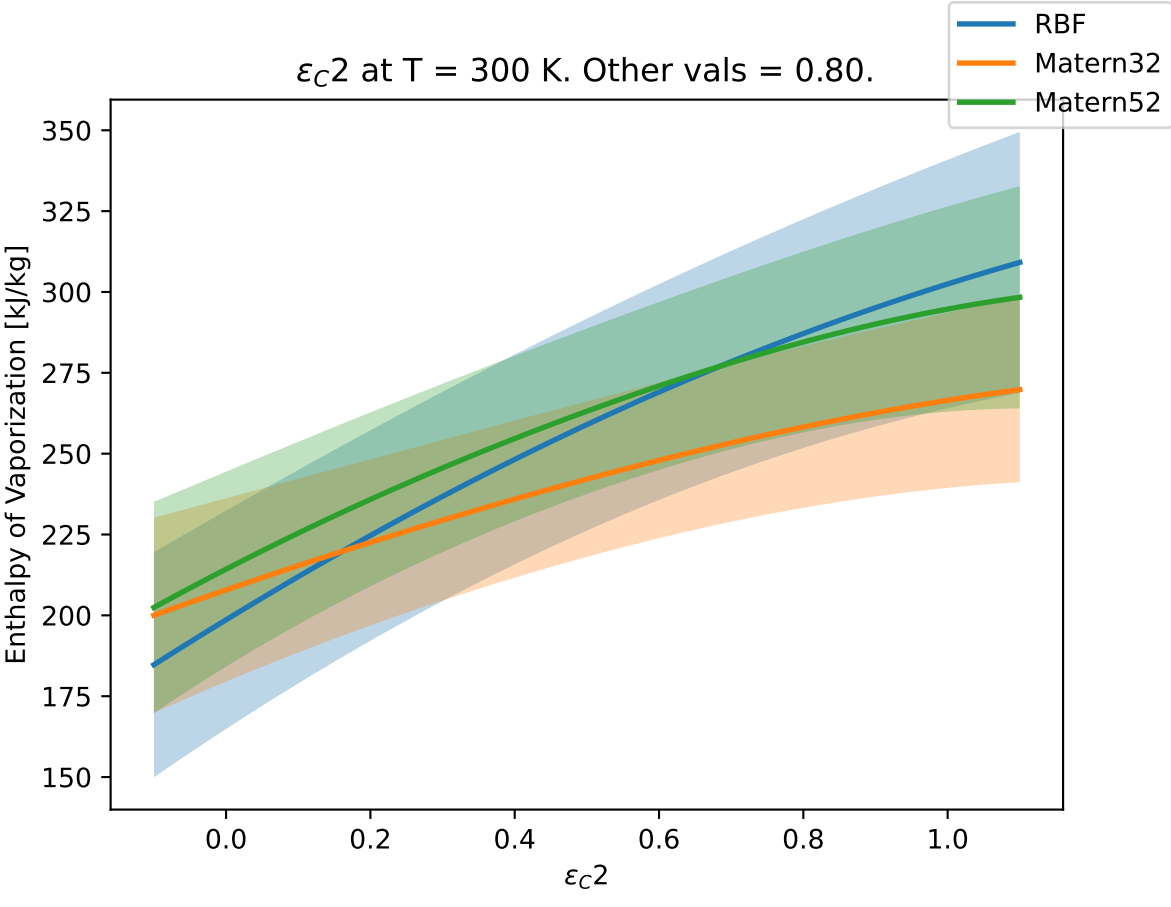

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

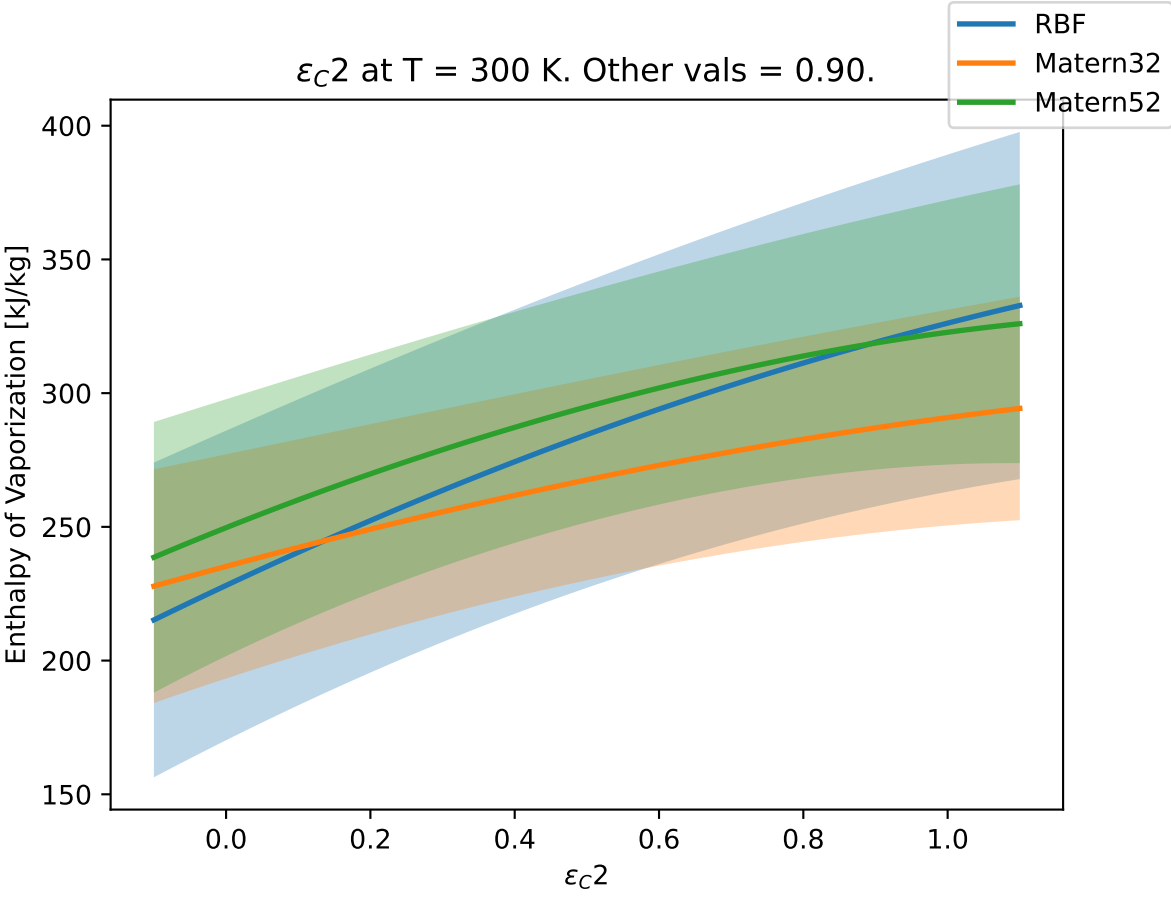

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

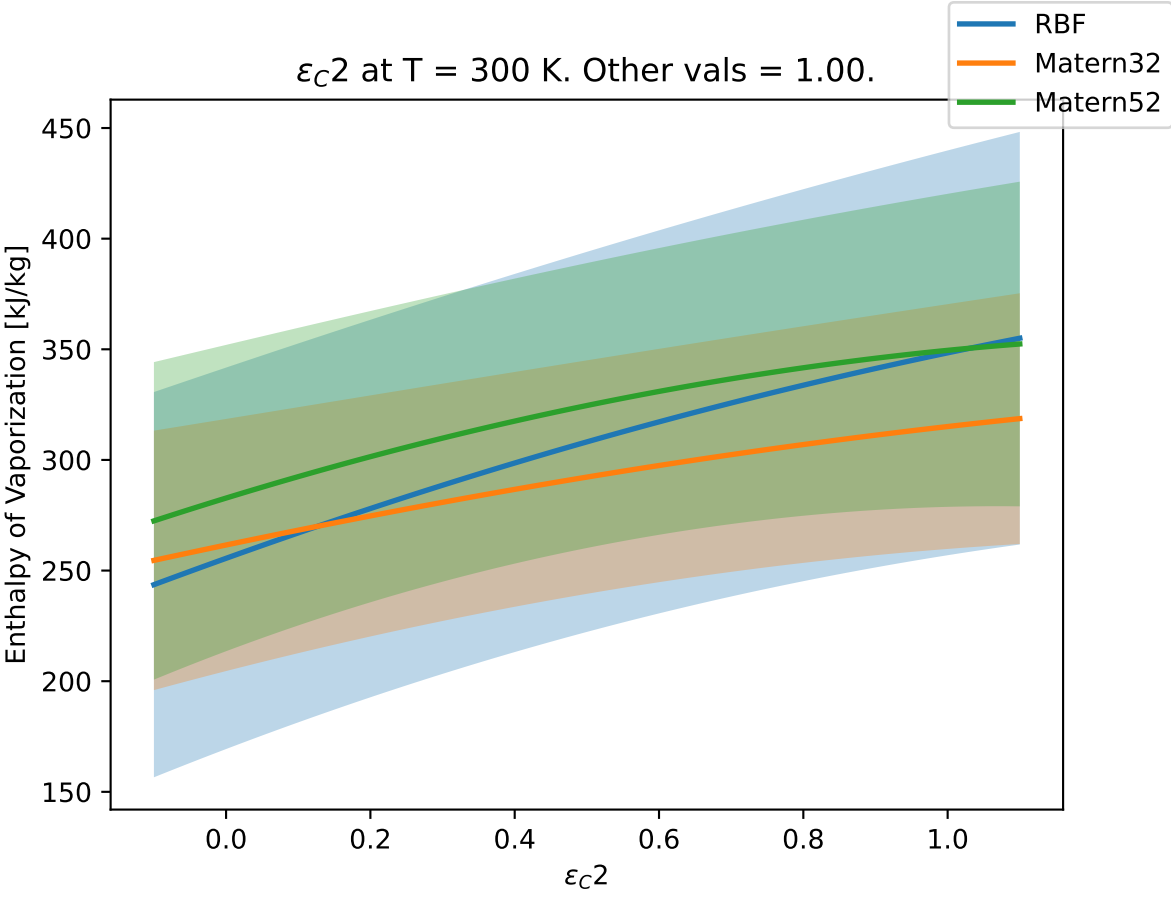

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
220
200
180
160
140
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

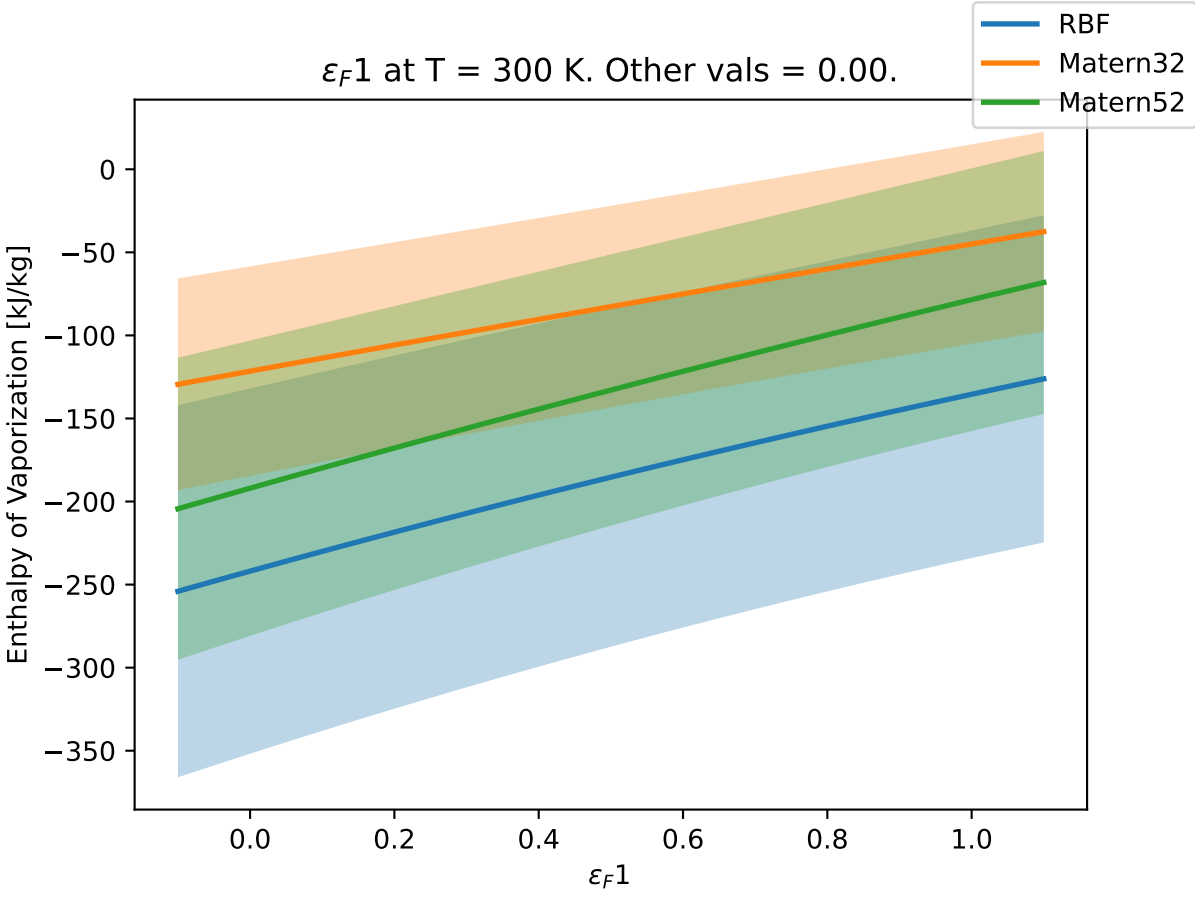

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
260
240
220
200
180
160
140
120
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

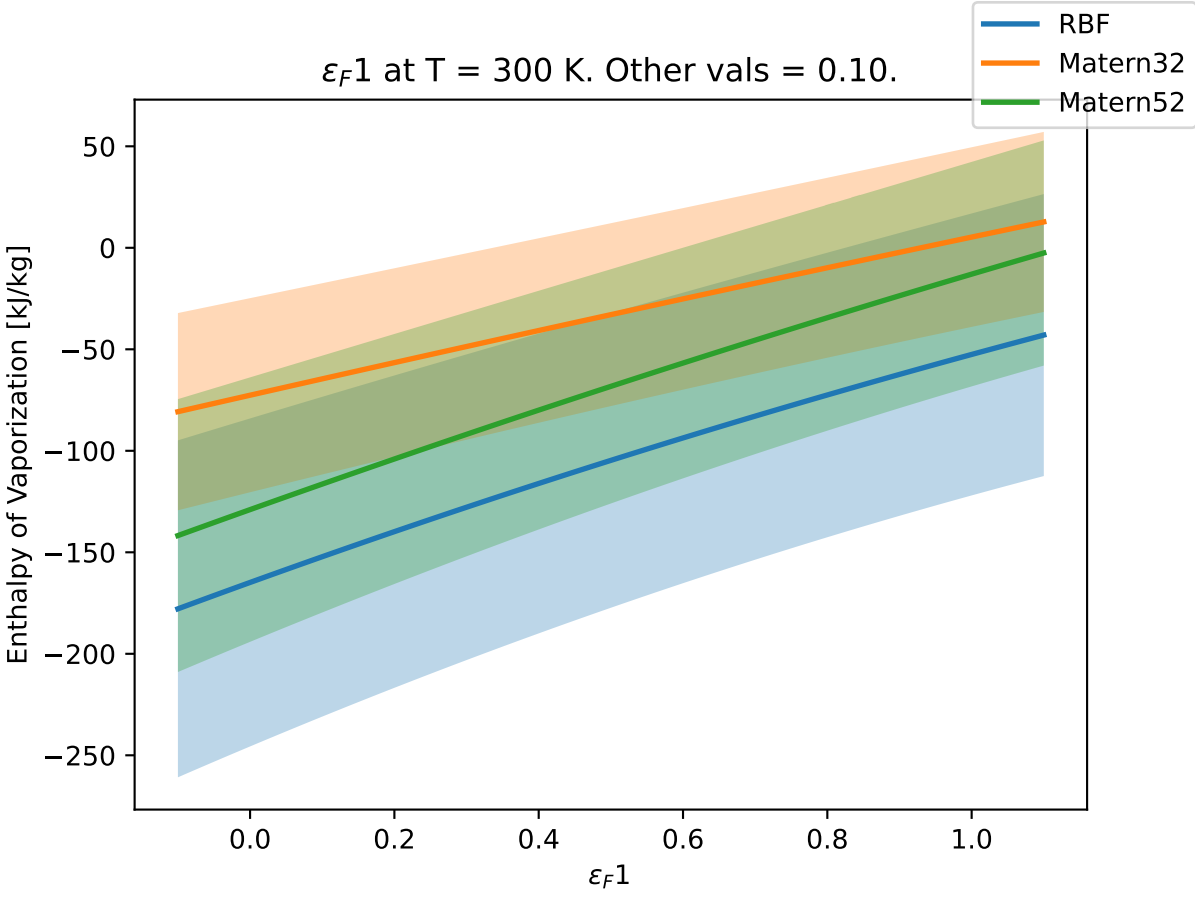

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
300
275
250
225
200
175
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

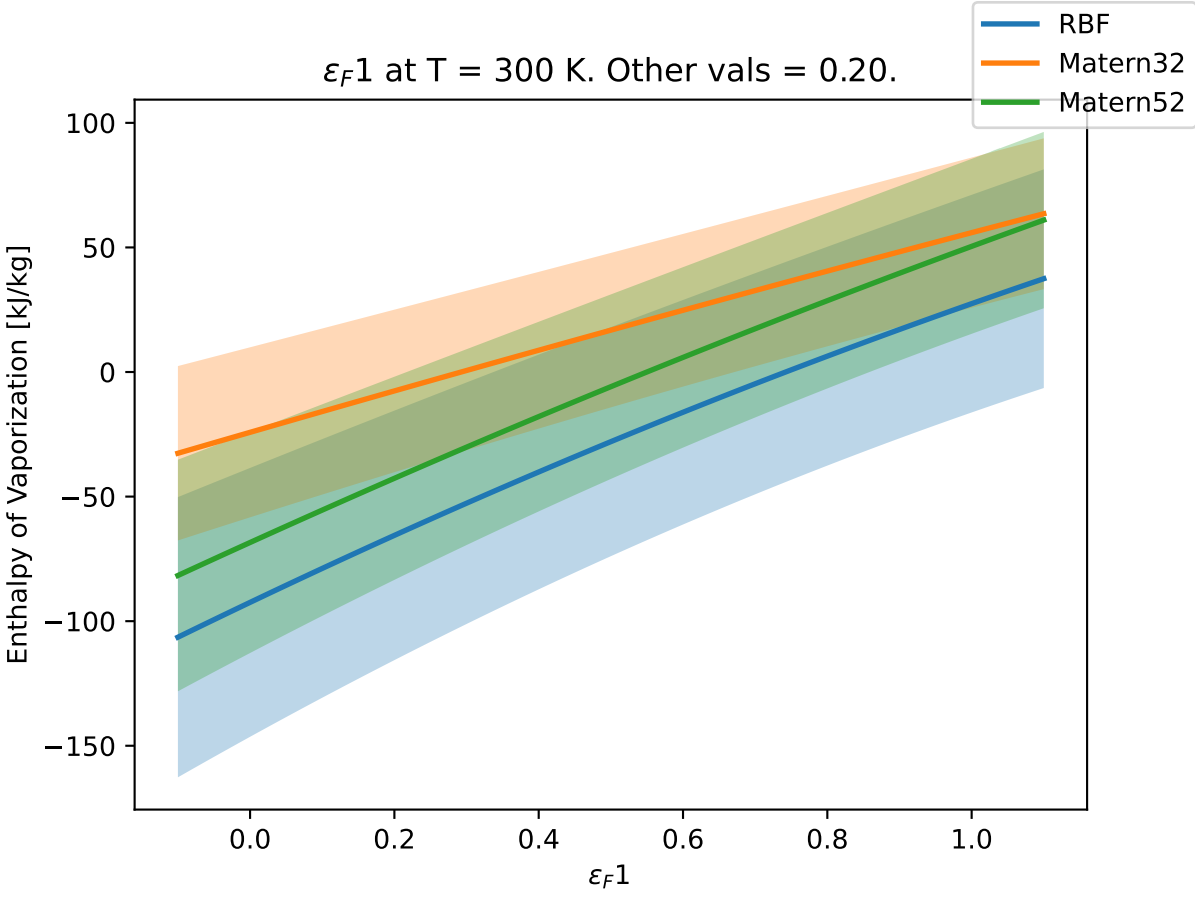

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
350
325
300
275
250
225
200
175
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

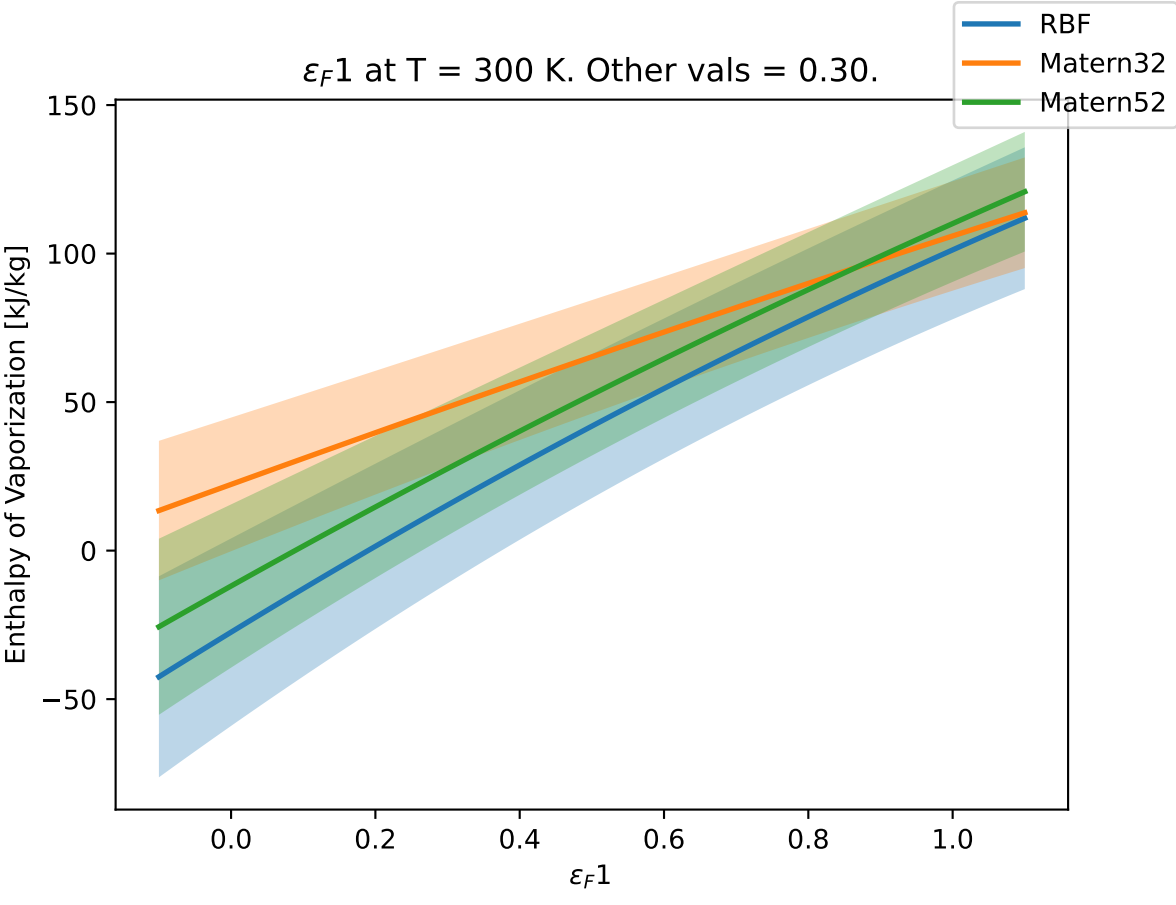

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

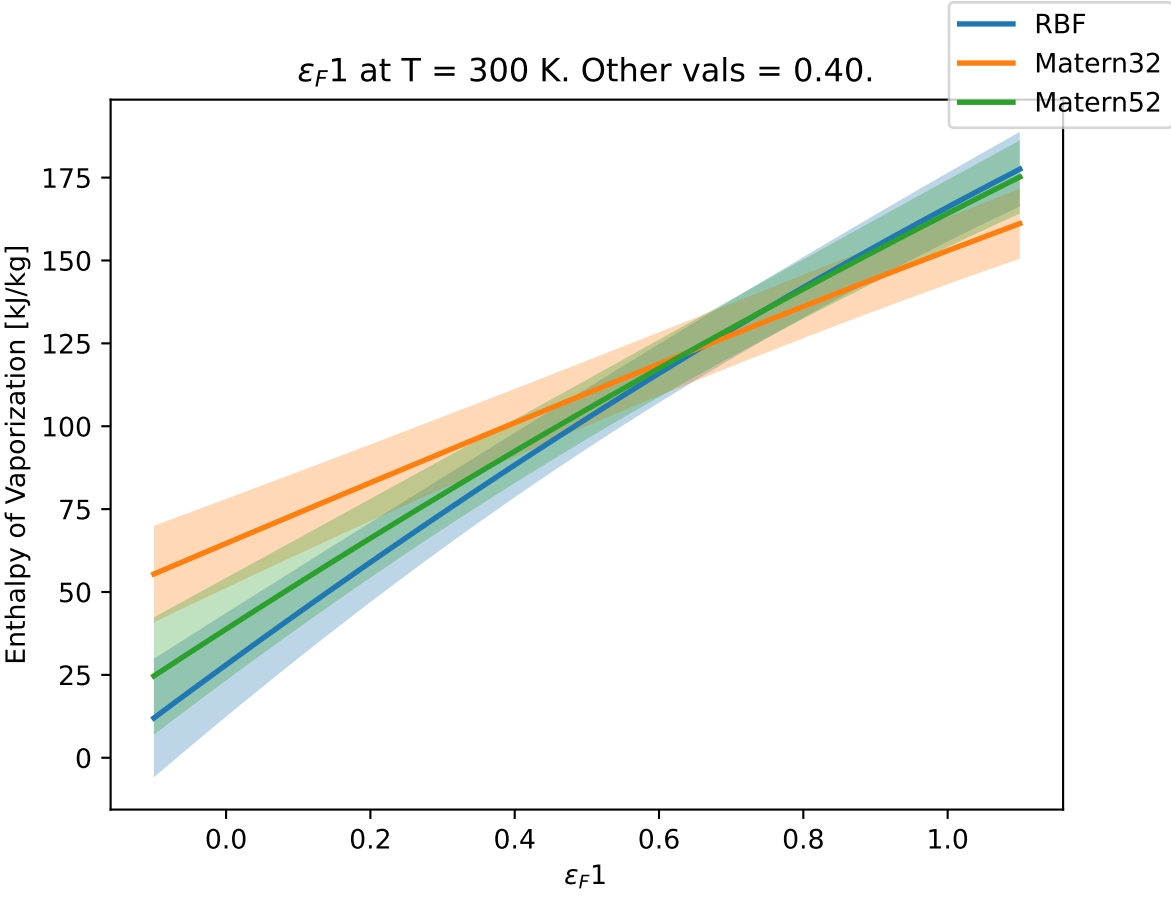

RBF
Matern32
Matern52
$\varepsilon_C 2$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_C 2$

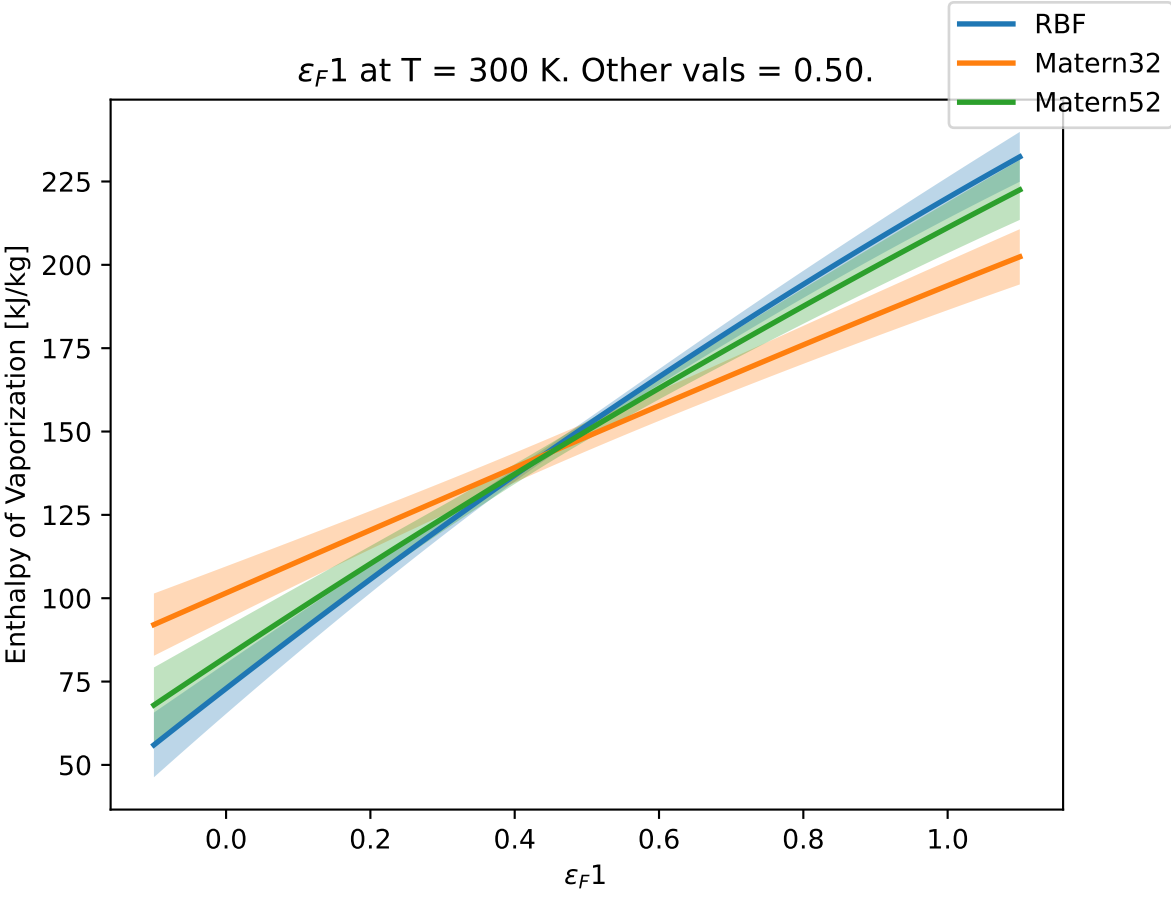

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
0
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

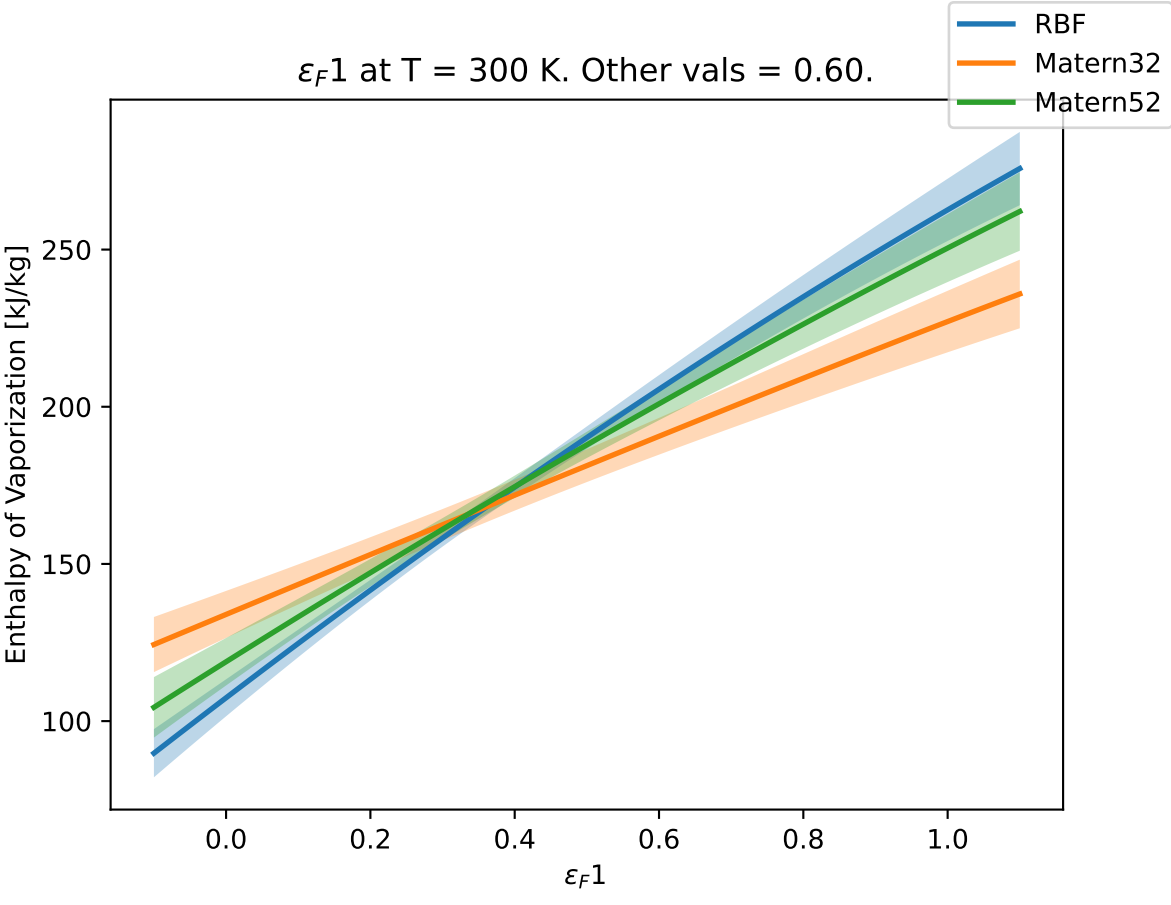

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
50
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

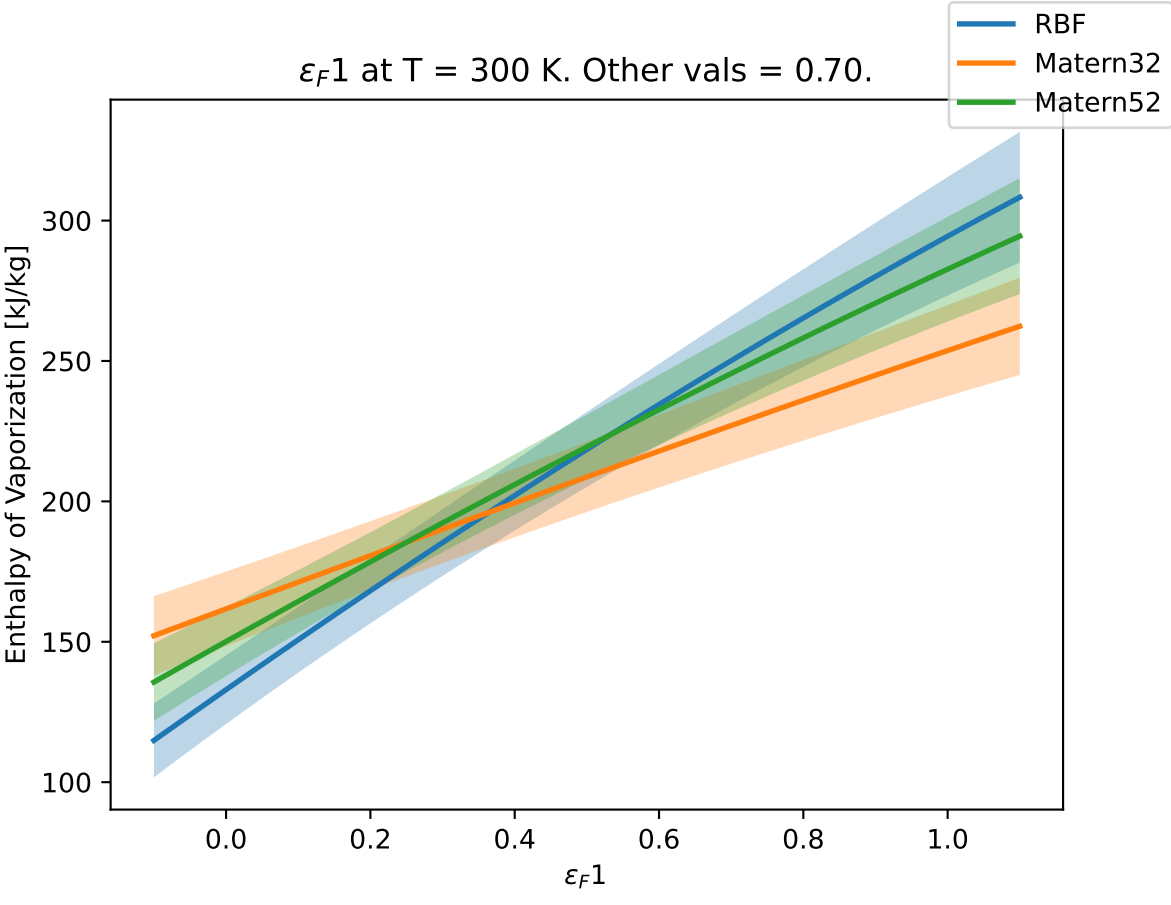

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
100
50
0
−50
−100
−150
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

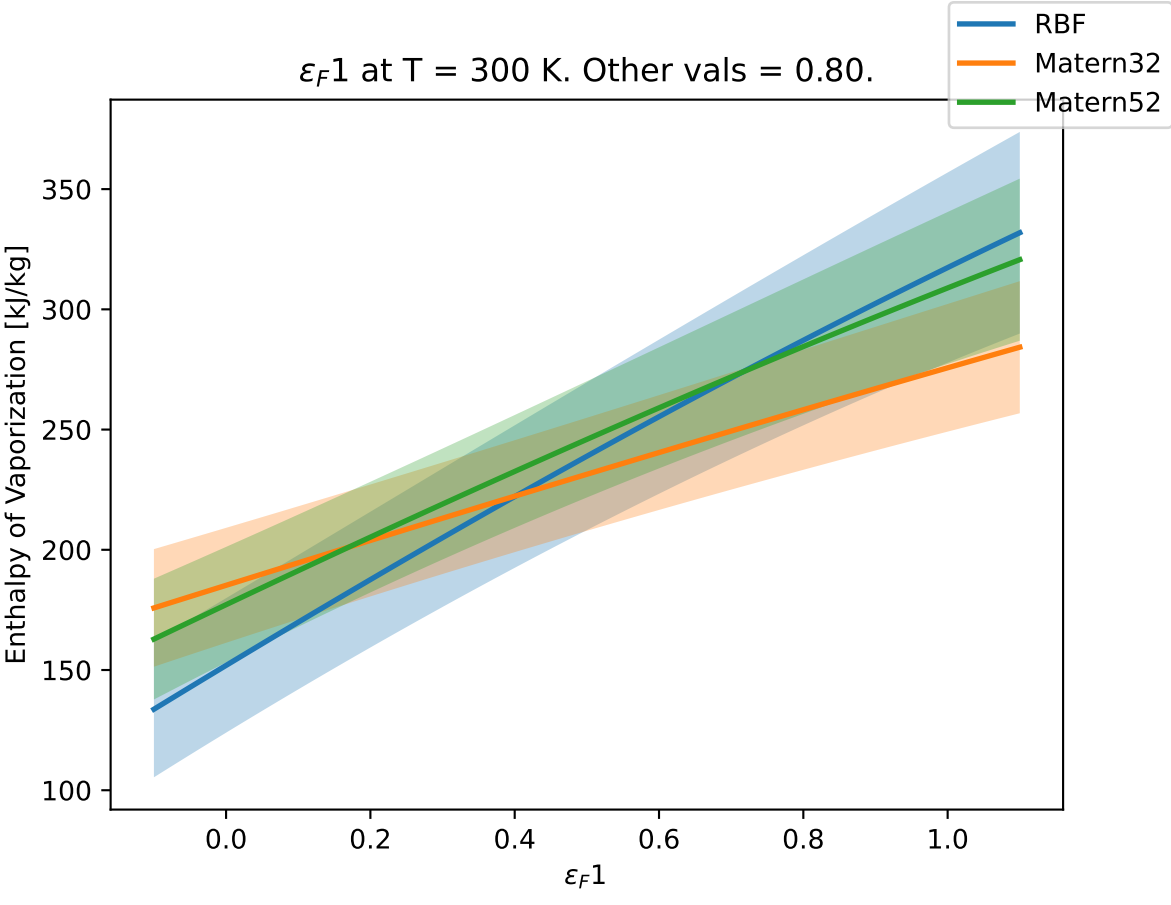

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.30.
150
100
50
0
−50
Enthalpy of Vaporization [kJ/kg]
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

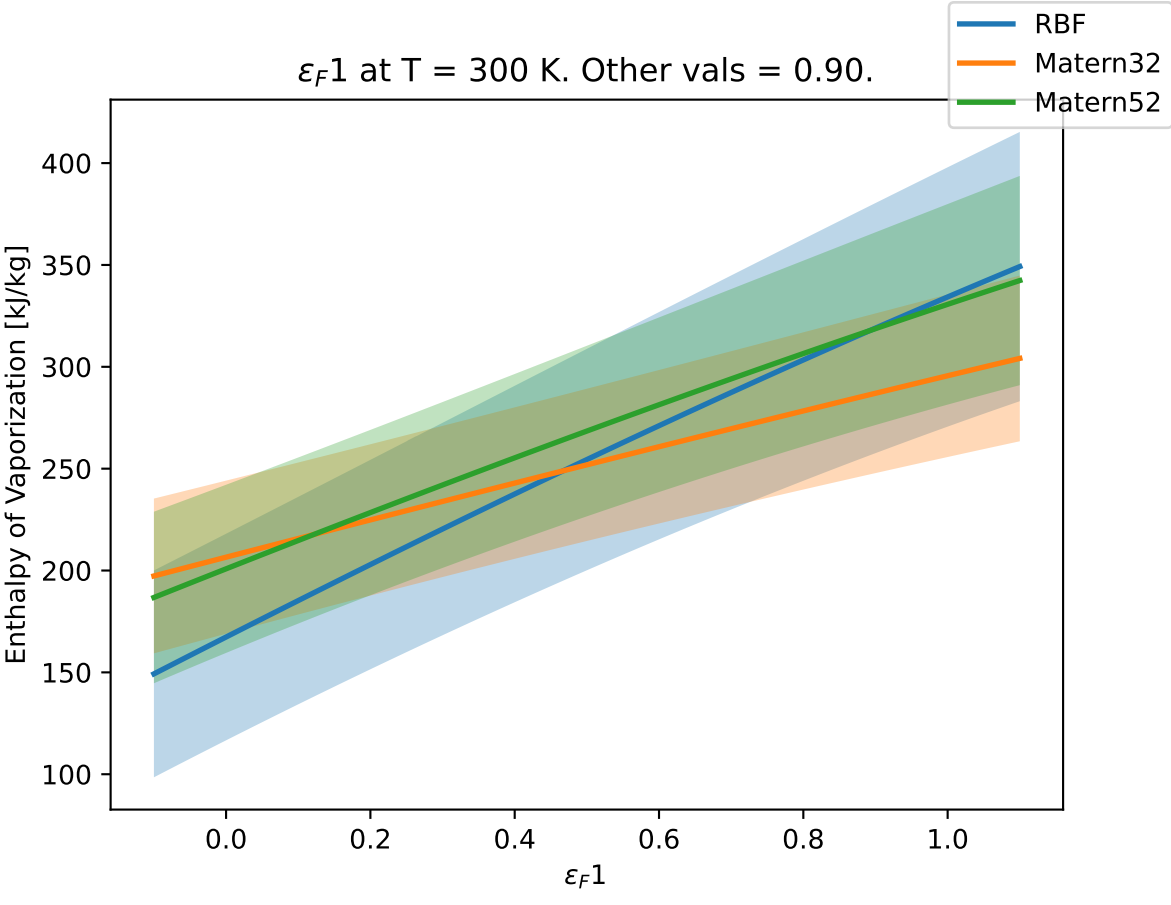

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
175
150
125
100
75
50
25
0
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

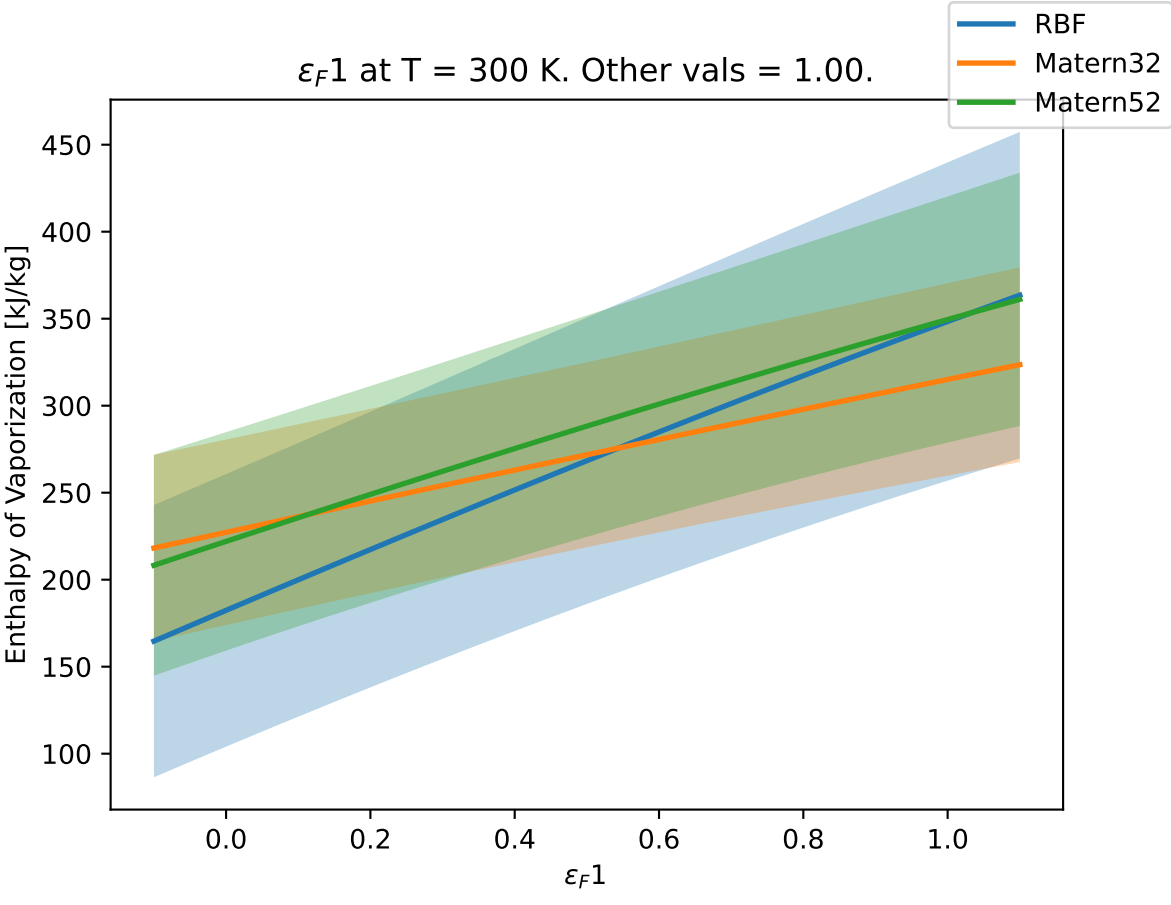

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
225
200
175
150
125
100
75
50
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

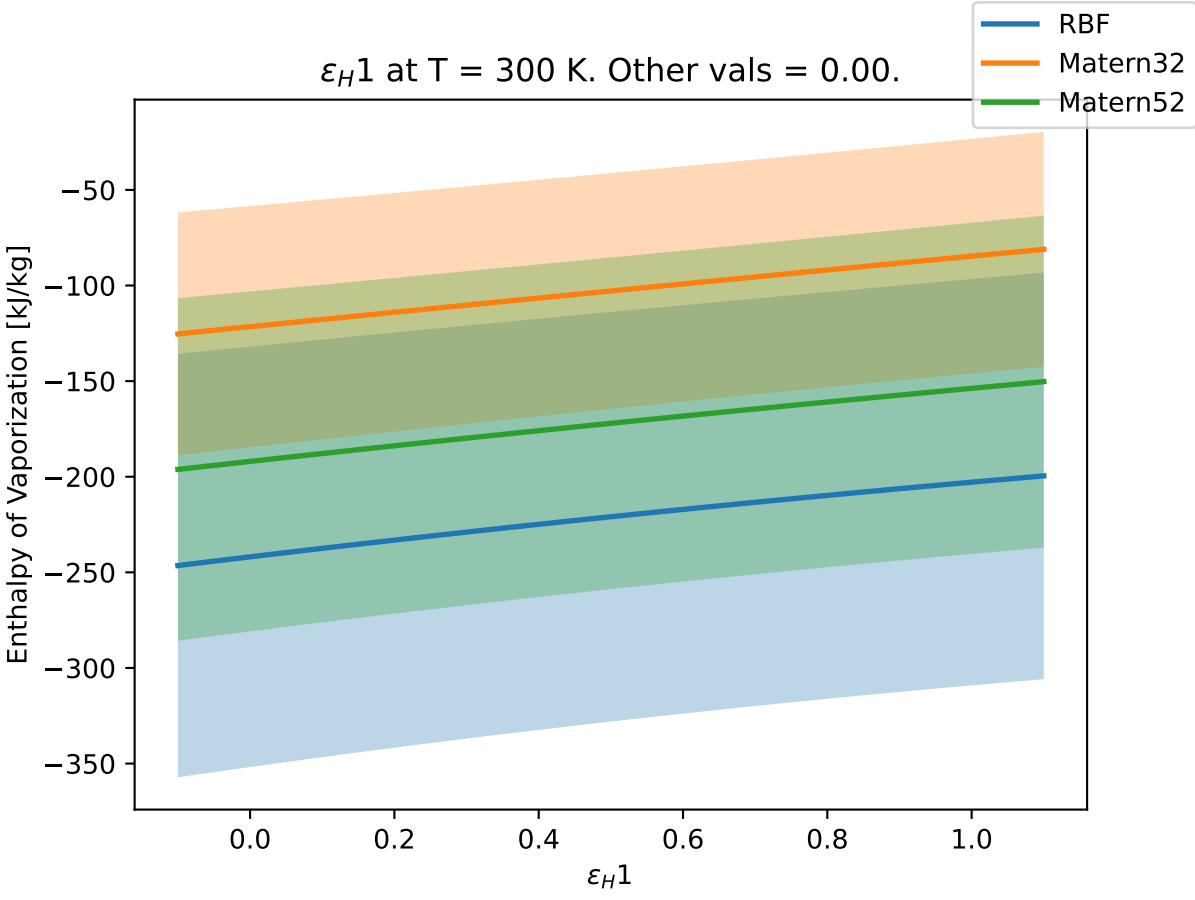

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
100
150
200
250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

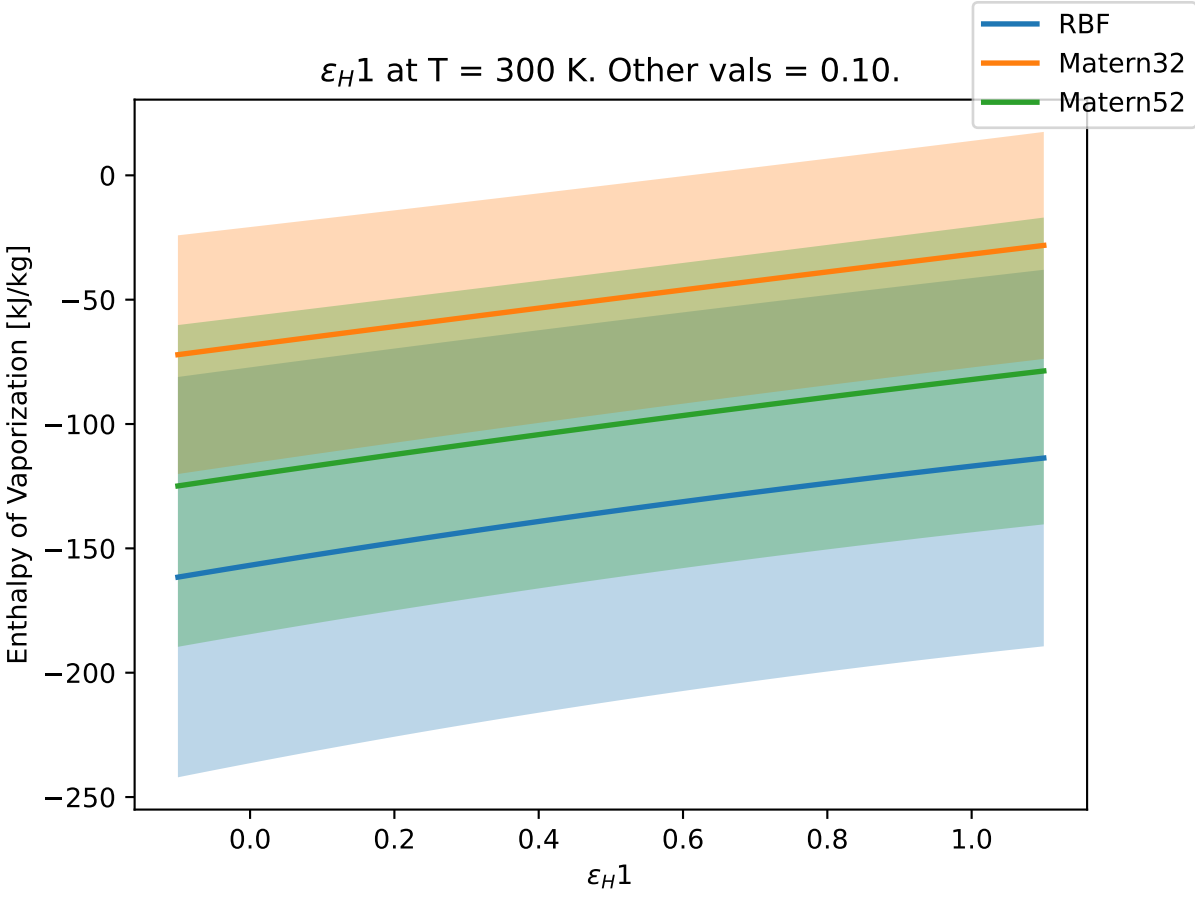

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
100
150
200
250
300
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

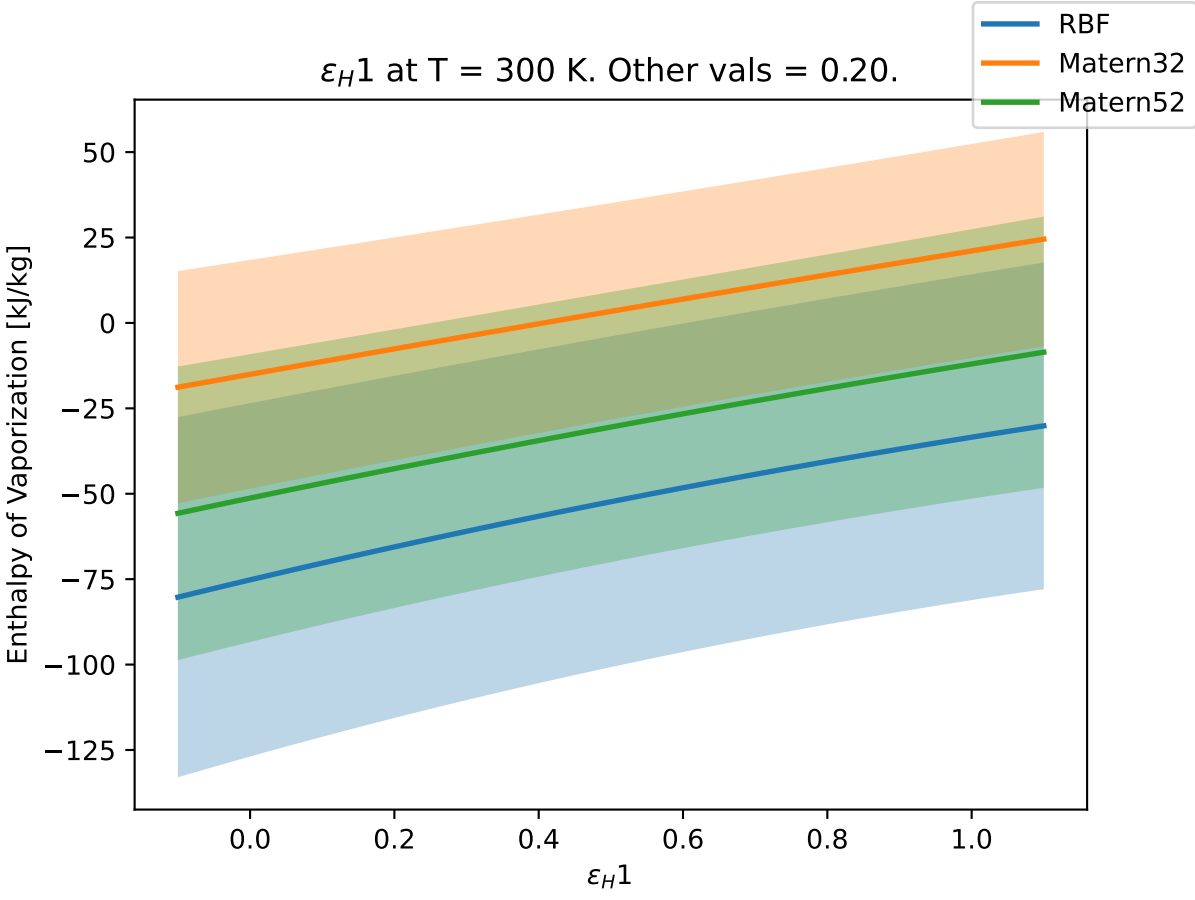

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
100
150
200
250
300
350
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

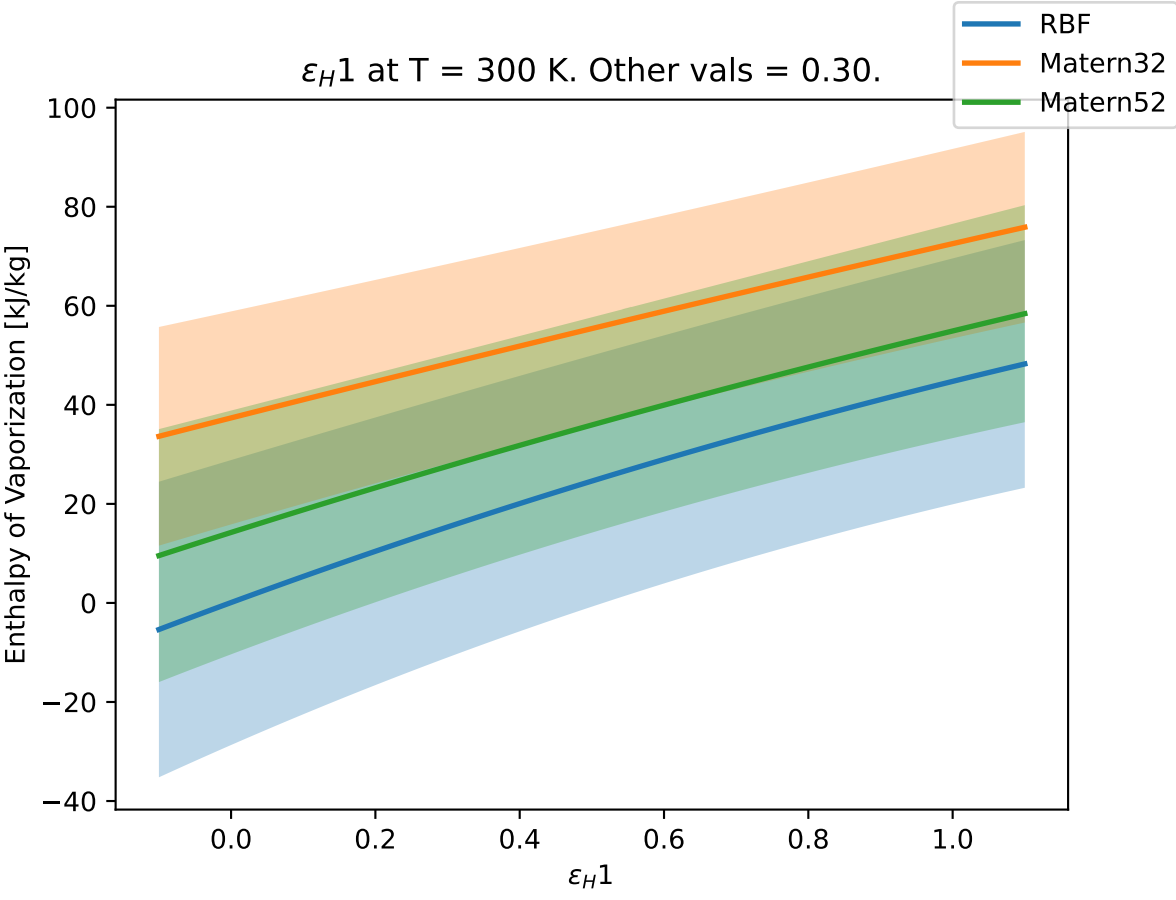

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

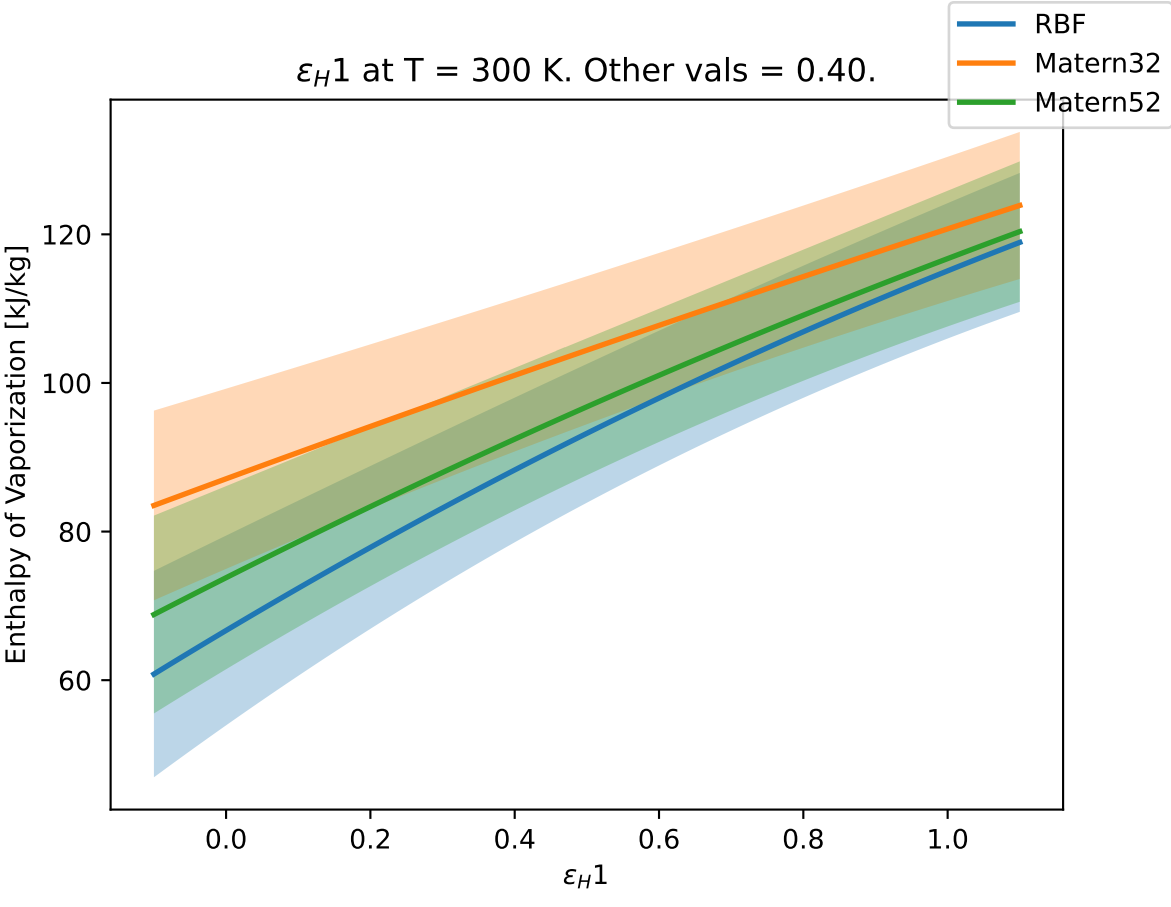

RBF
Matern32
Matern52
$\varepsilon_F 1$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_F 1$

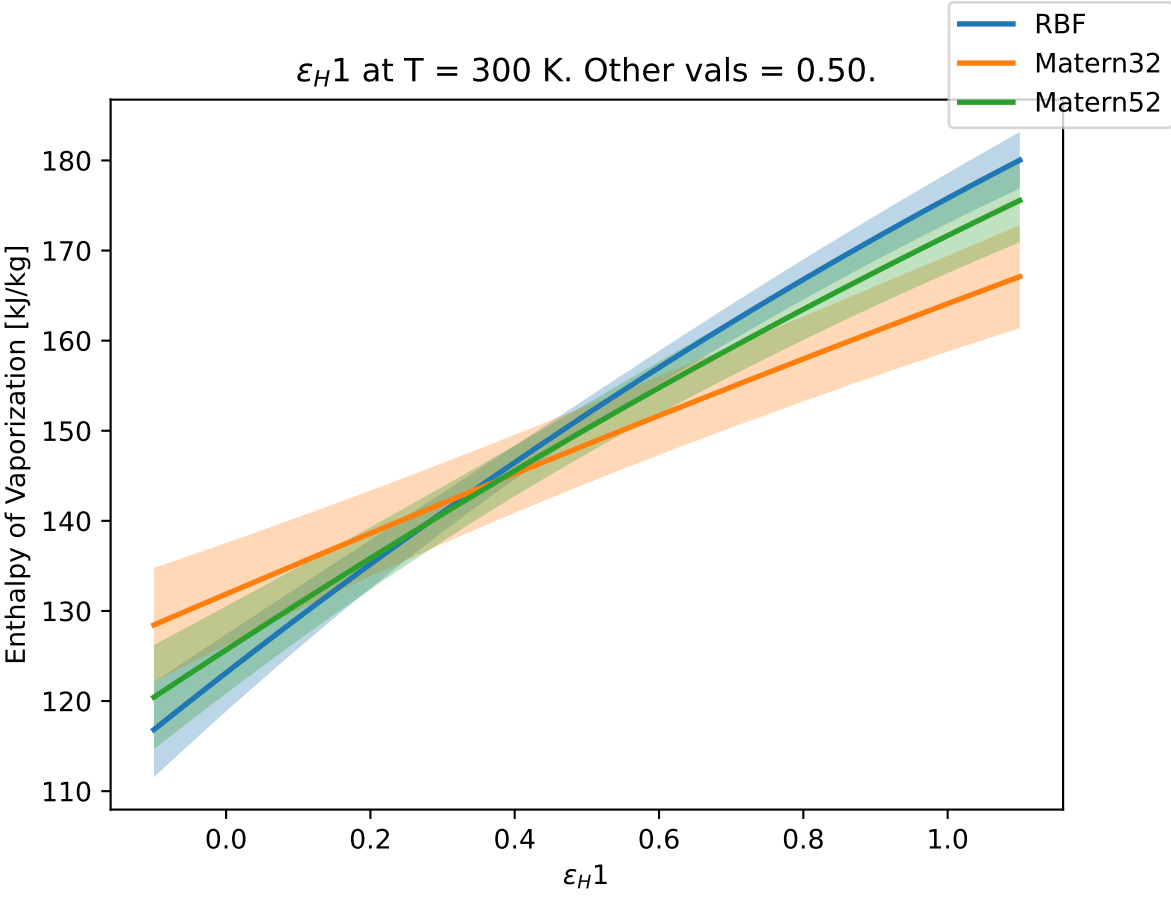

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.00.
Enthalpy of Vaporization [kJ/kg]
−50
−100
−150
−200
−250
−300
−350
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

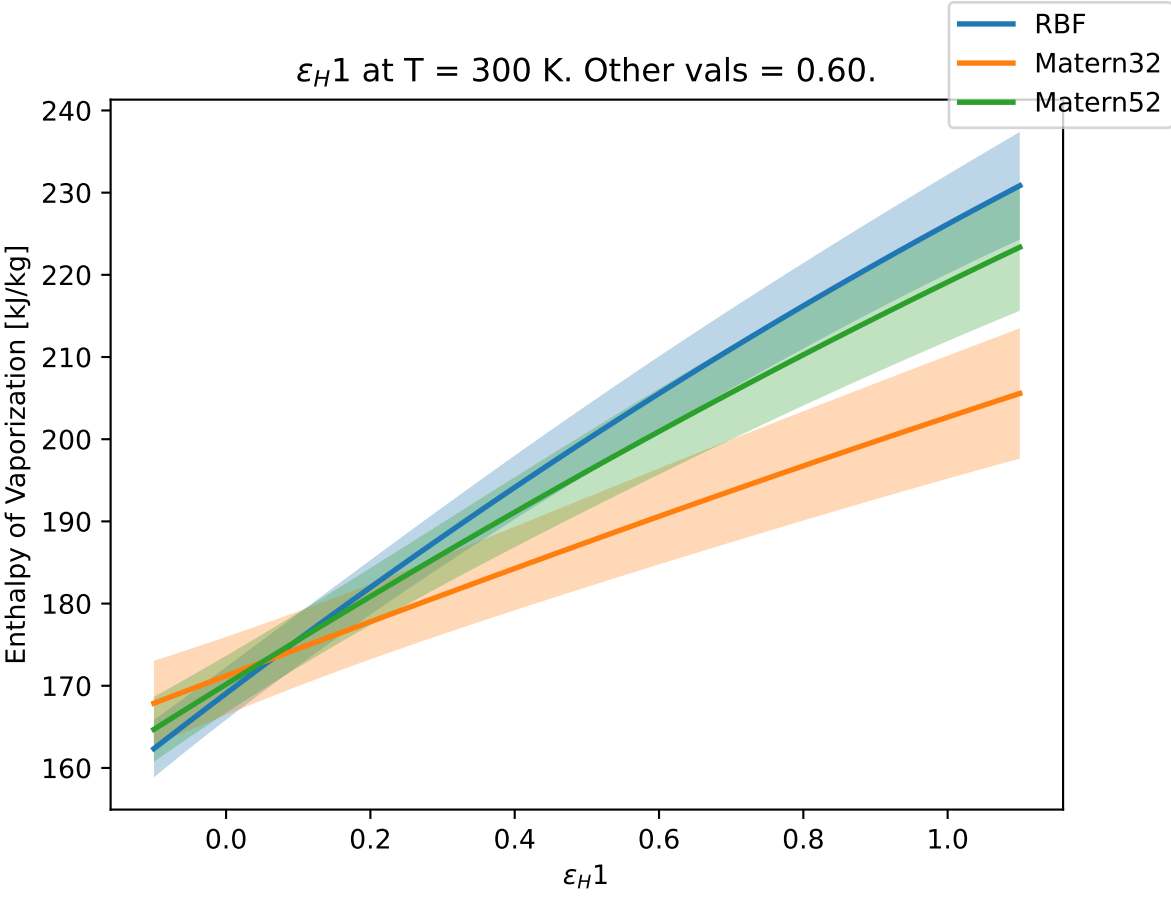

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.10.
Enthalpy of Vaporization [kJ/kg]
0
−50
−100
−150
−200
−250
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

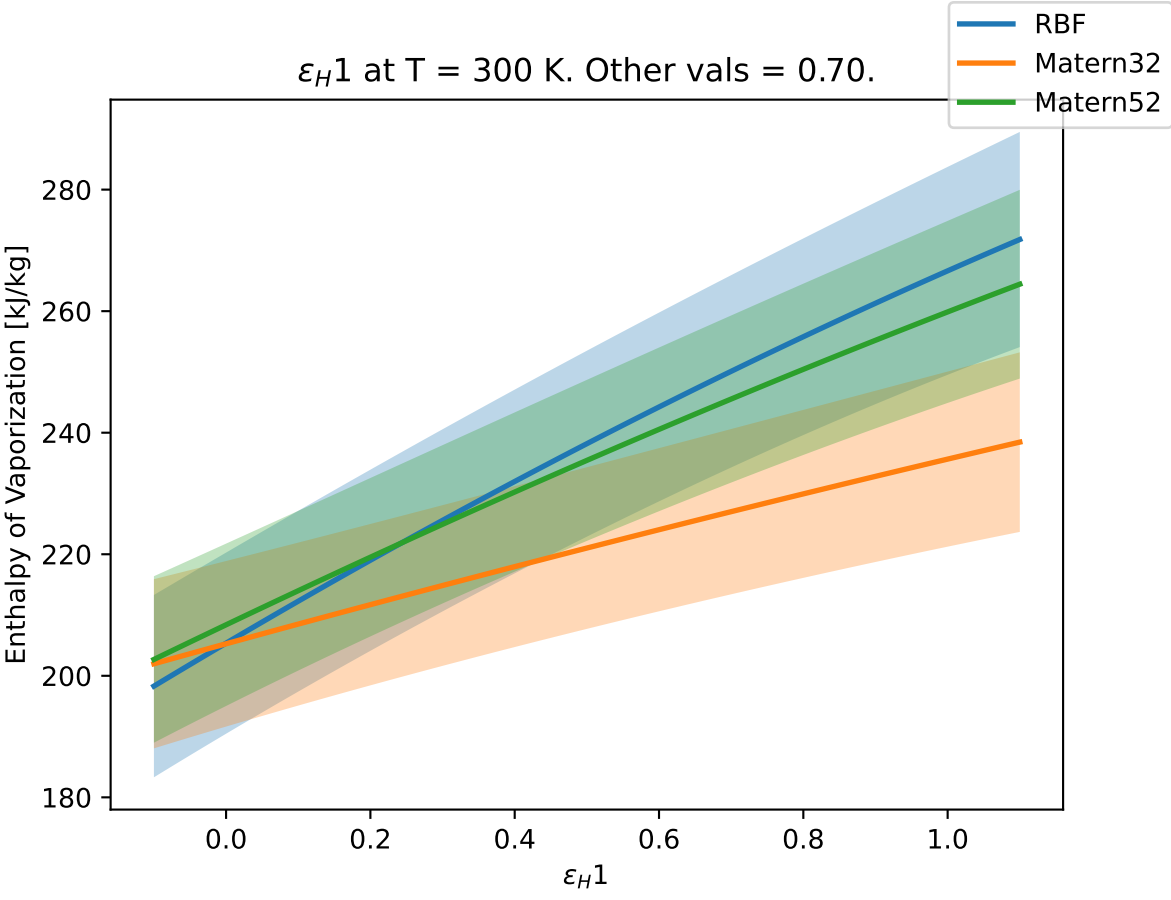

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.20.
Enthalpy of Vaporization [kJ/kg]
50
25
0
−25
−50
−75
−100
−125
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

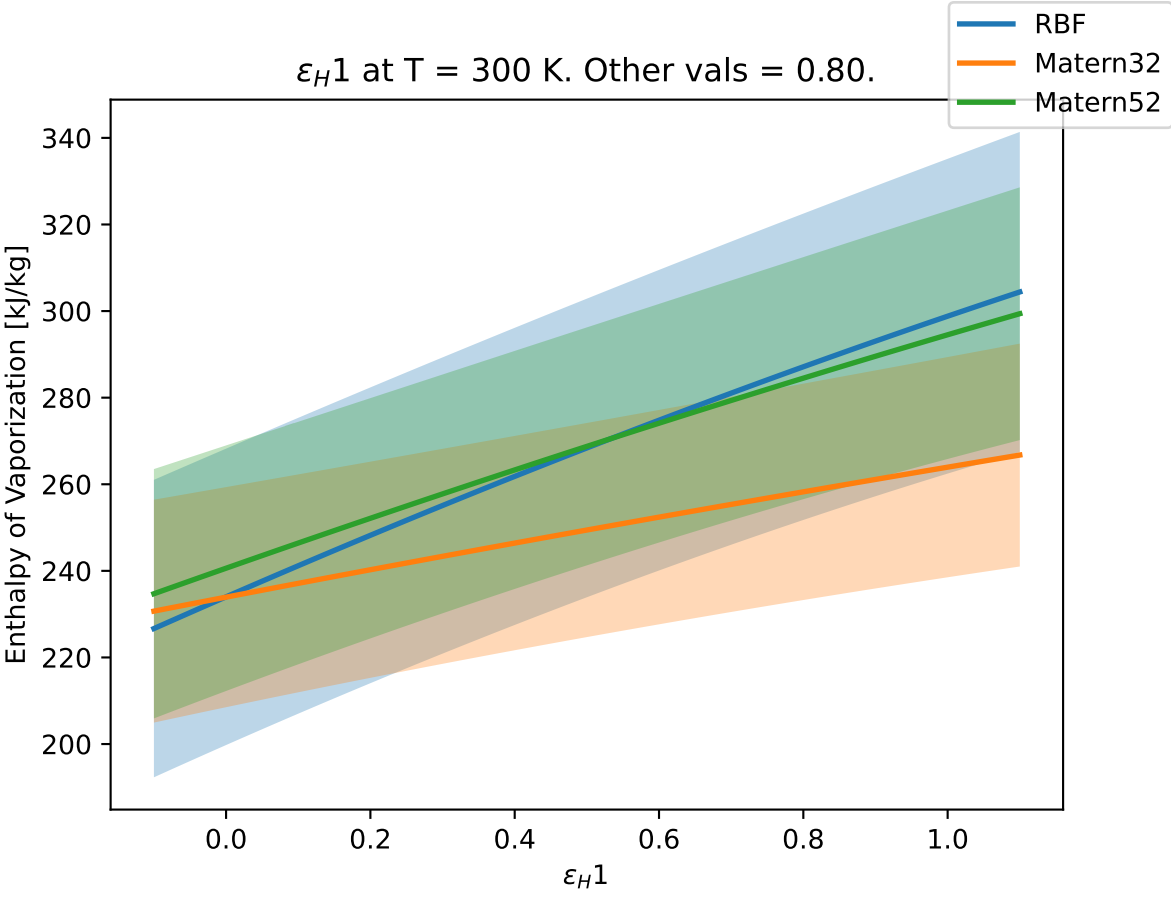

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.30.
Enthalpy of Vaporization [kJ/kg]
100
80
60
40
20
0
−20
−40
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

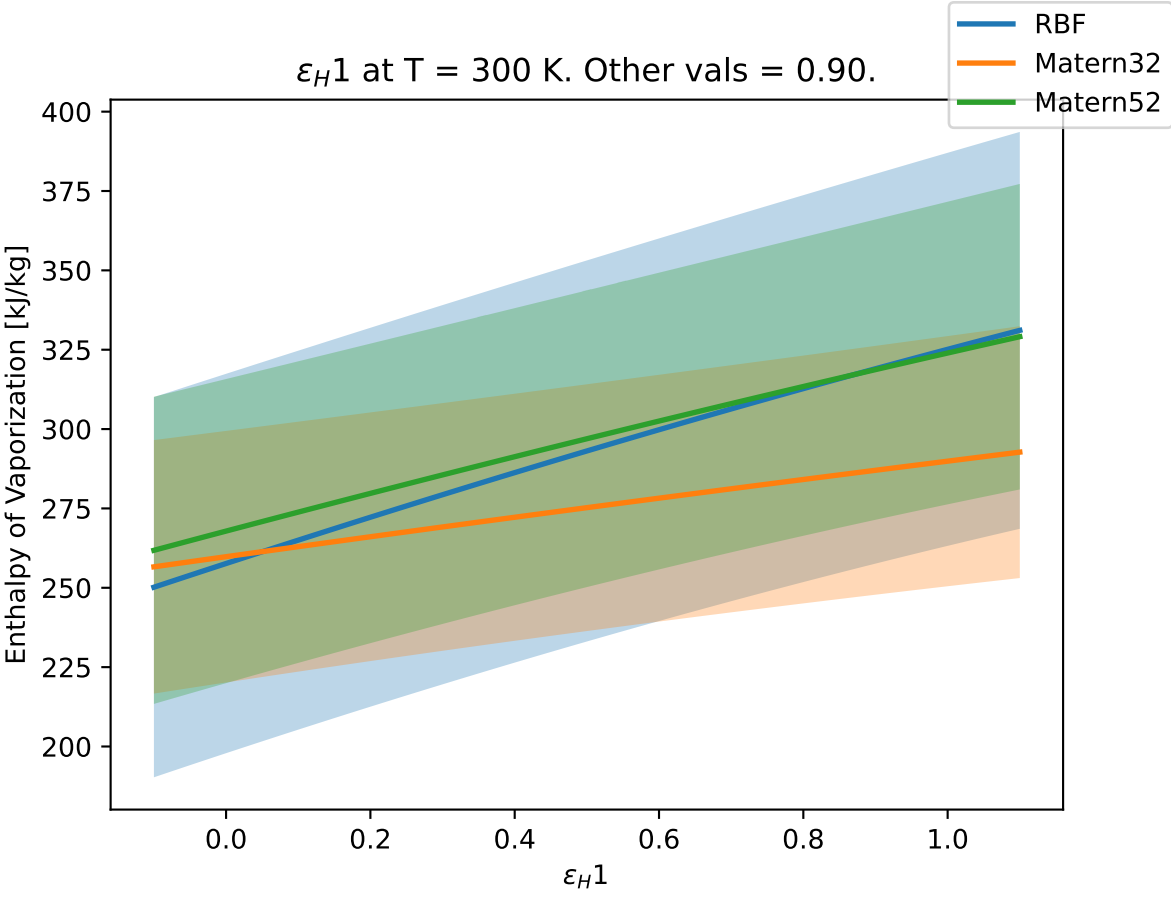

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.40.
Enthalpy of Vaporization [kJ/kg]
120
100
80
60
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

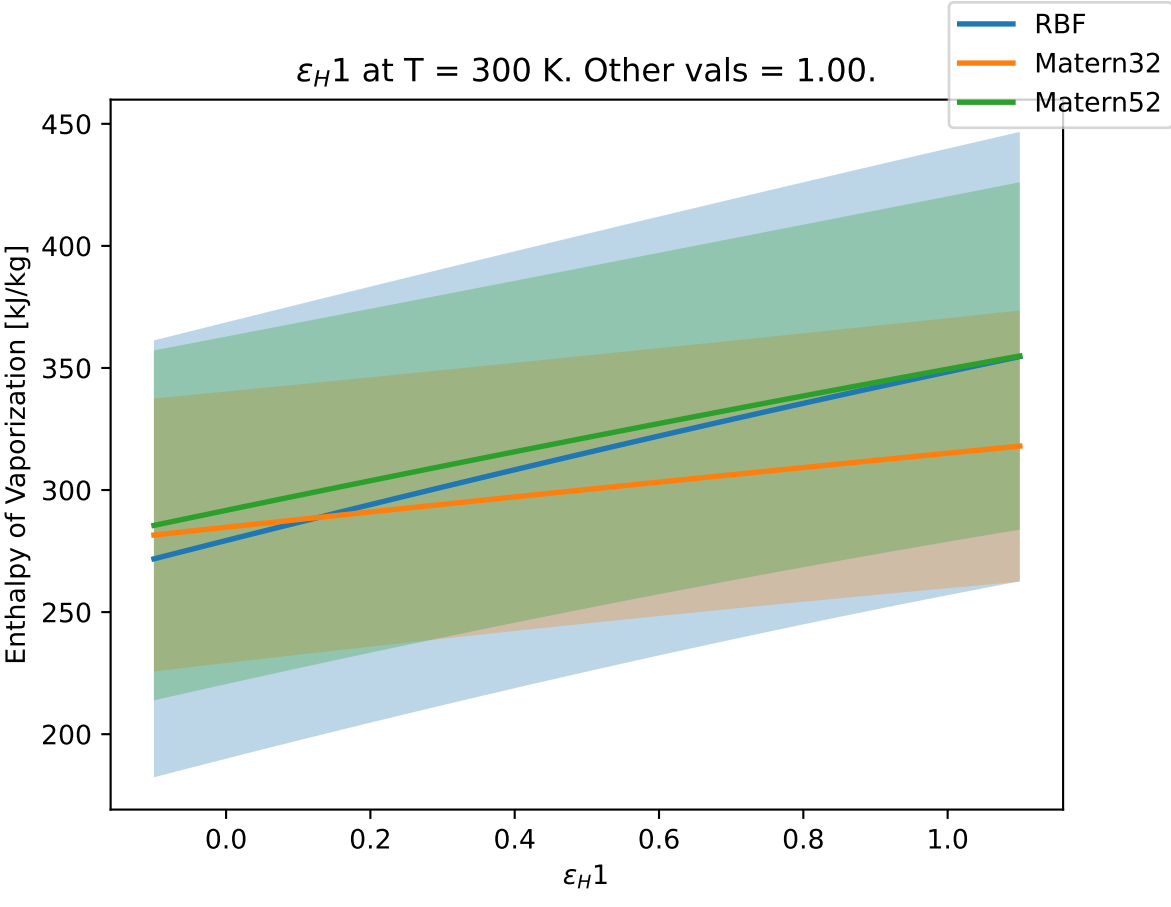

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.50.
Enthalpy of Vaporization [kJ/kg]
110
120
130
140
150
160
170
180
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

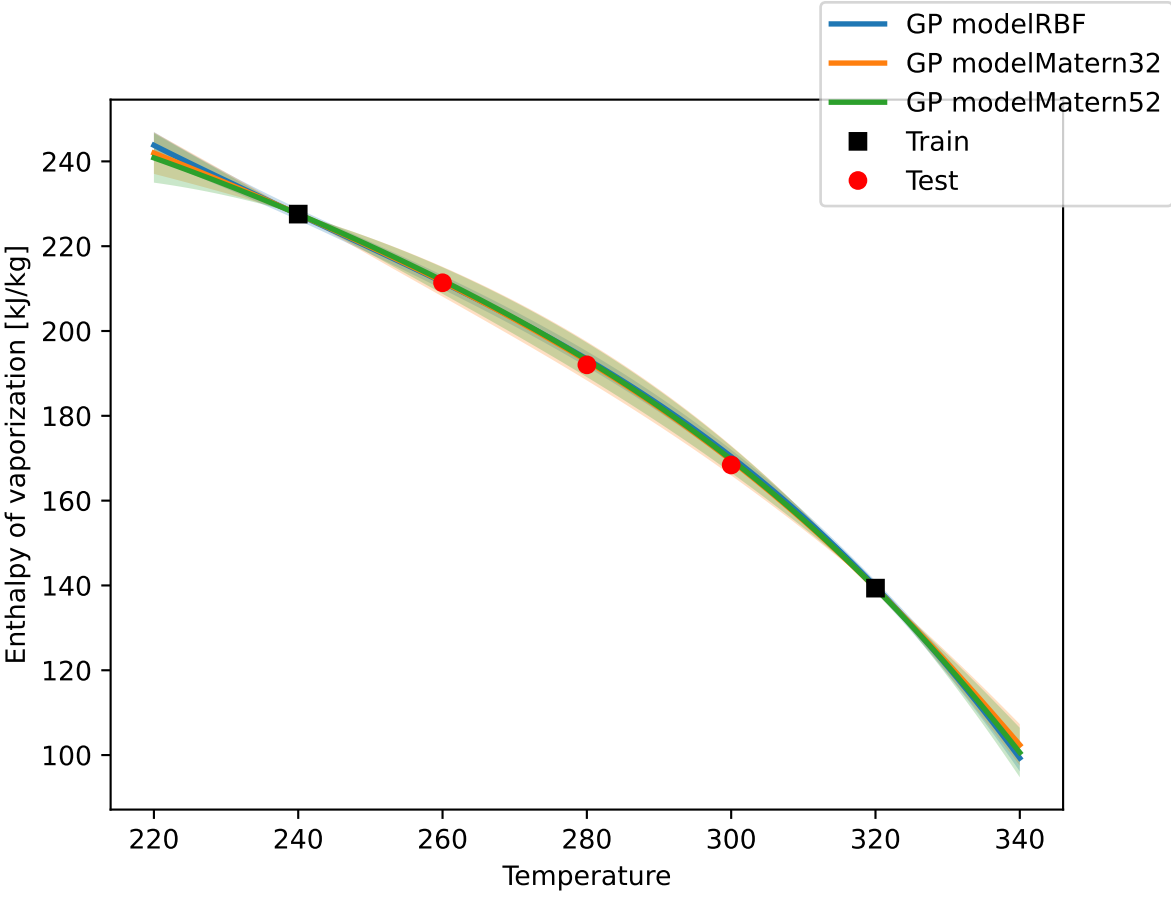

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.60.
Enthalpy of Vaporization [kJ/kg]
240
230
220
210
200
190
180
170
160
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

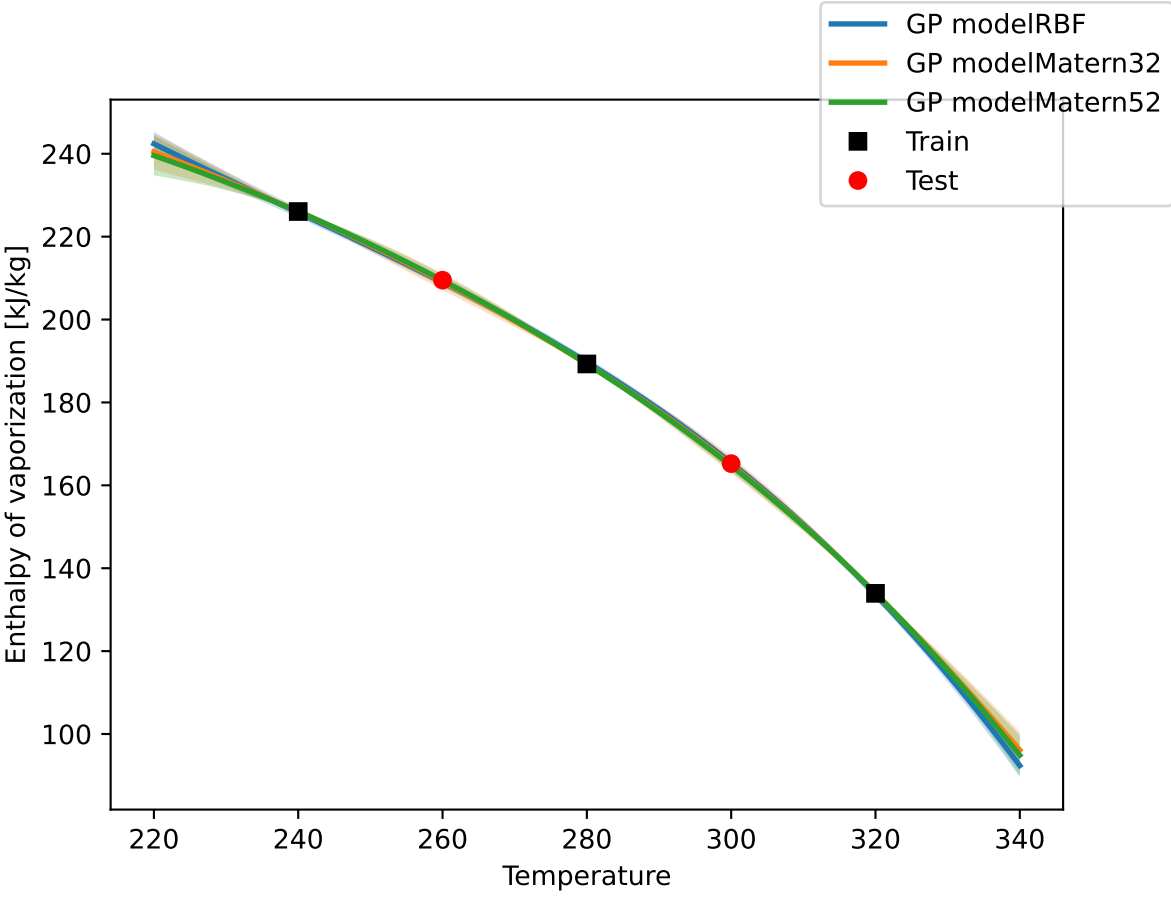

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.70.
Enthalpy of Vaporization [kJ/kg]
180
200
220
240
260
280
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

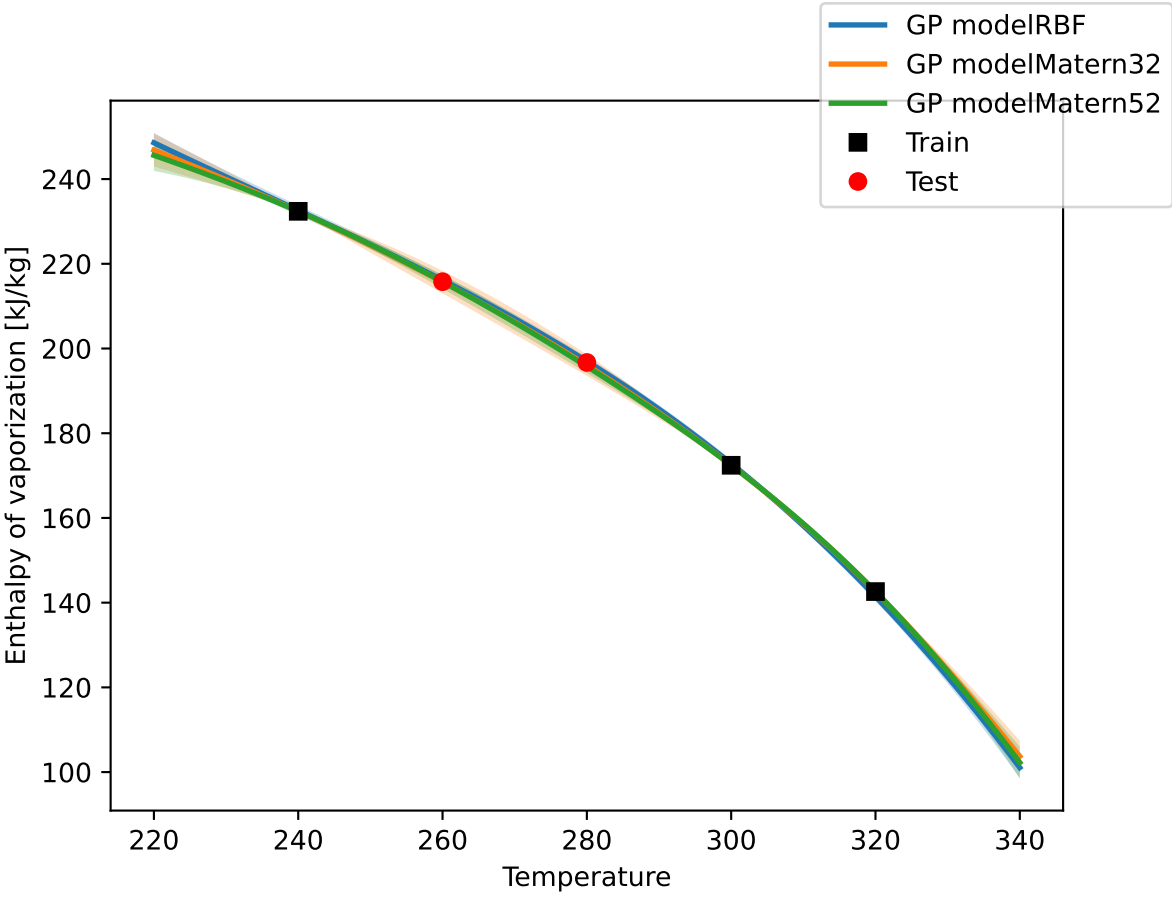

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.80.
Enthalpy of Vaporization [kJ/kg]
340
320
300
280
260
240
220
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

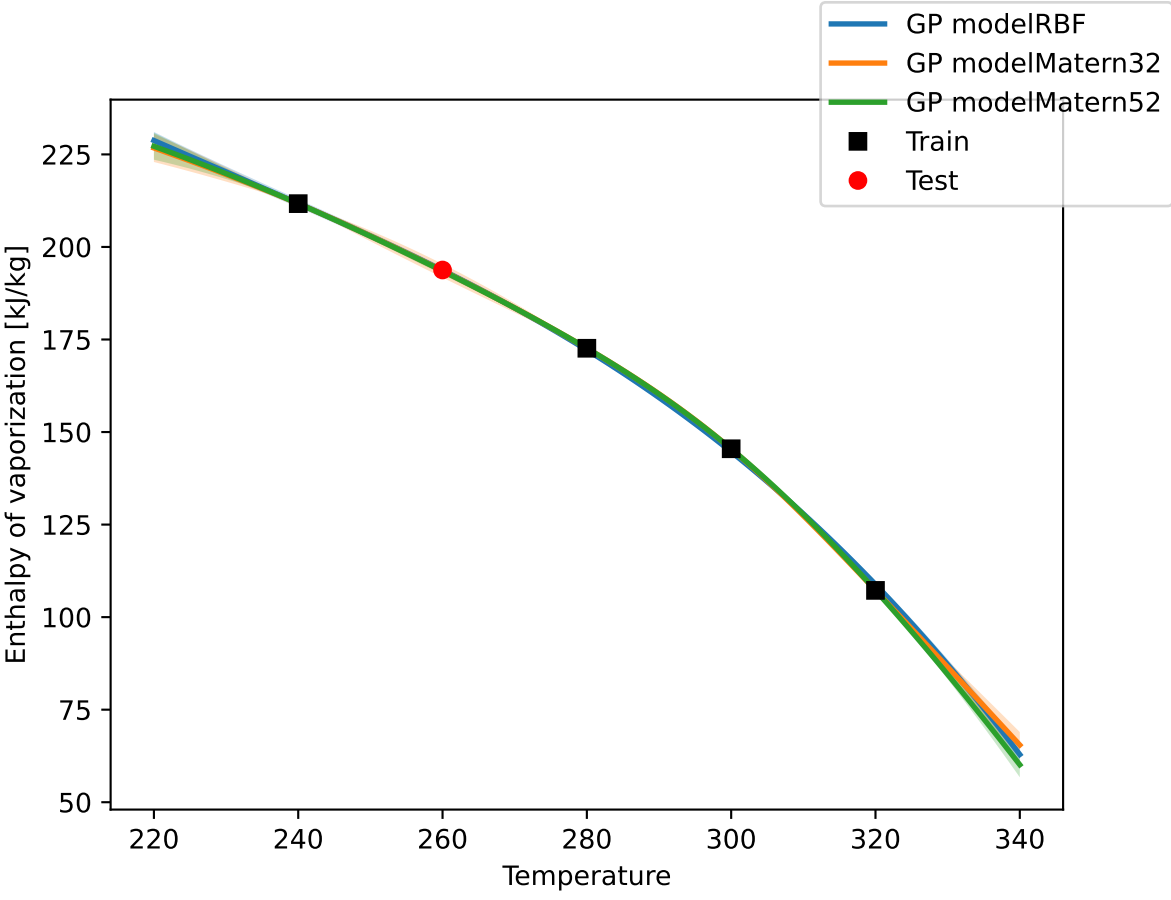

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 0.90.
Enthalpy of Vaporization [kJ/kg]
400
375
350
325
300
275
250
225
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

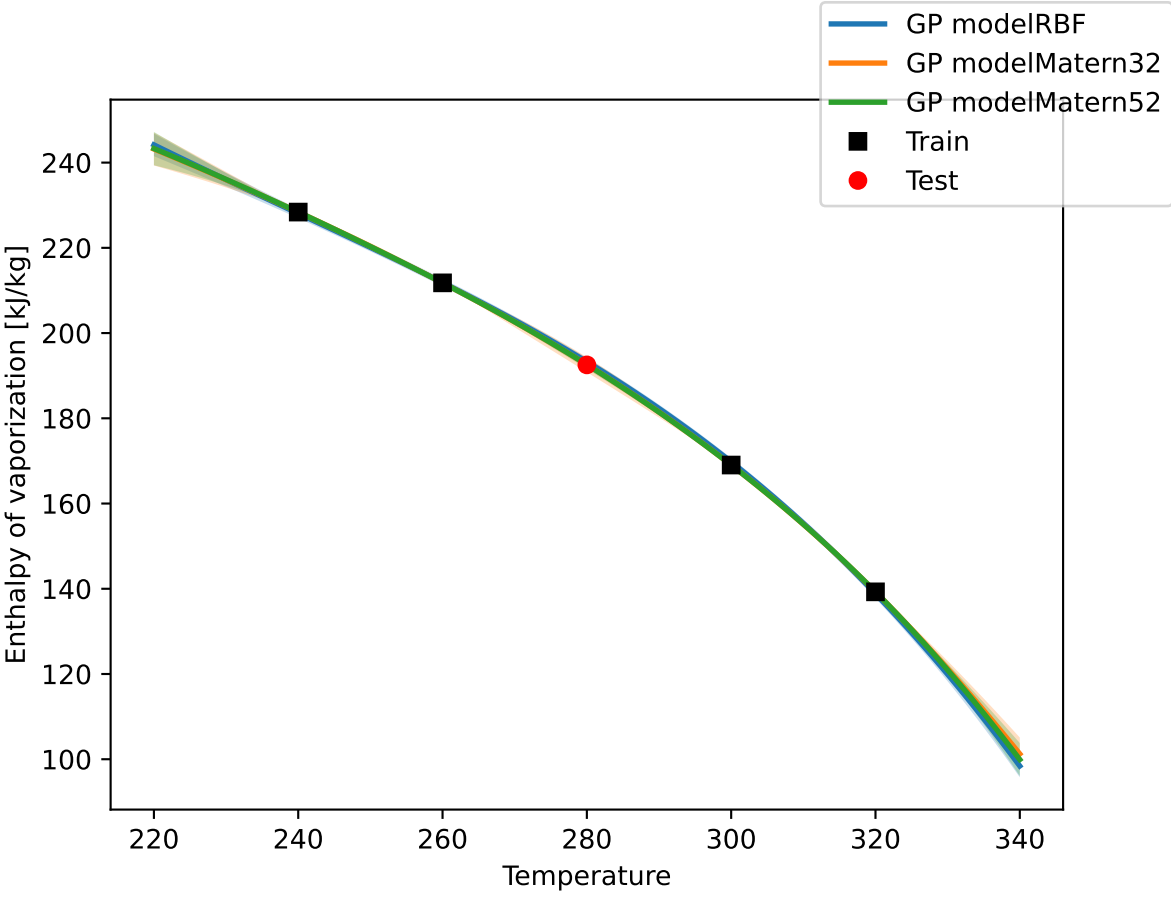

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 300 K. Other vals = 1.00.
Enthalpy of Vaporization [kJ/kg]
450
400
350
300
250
200
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

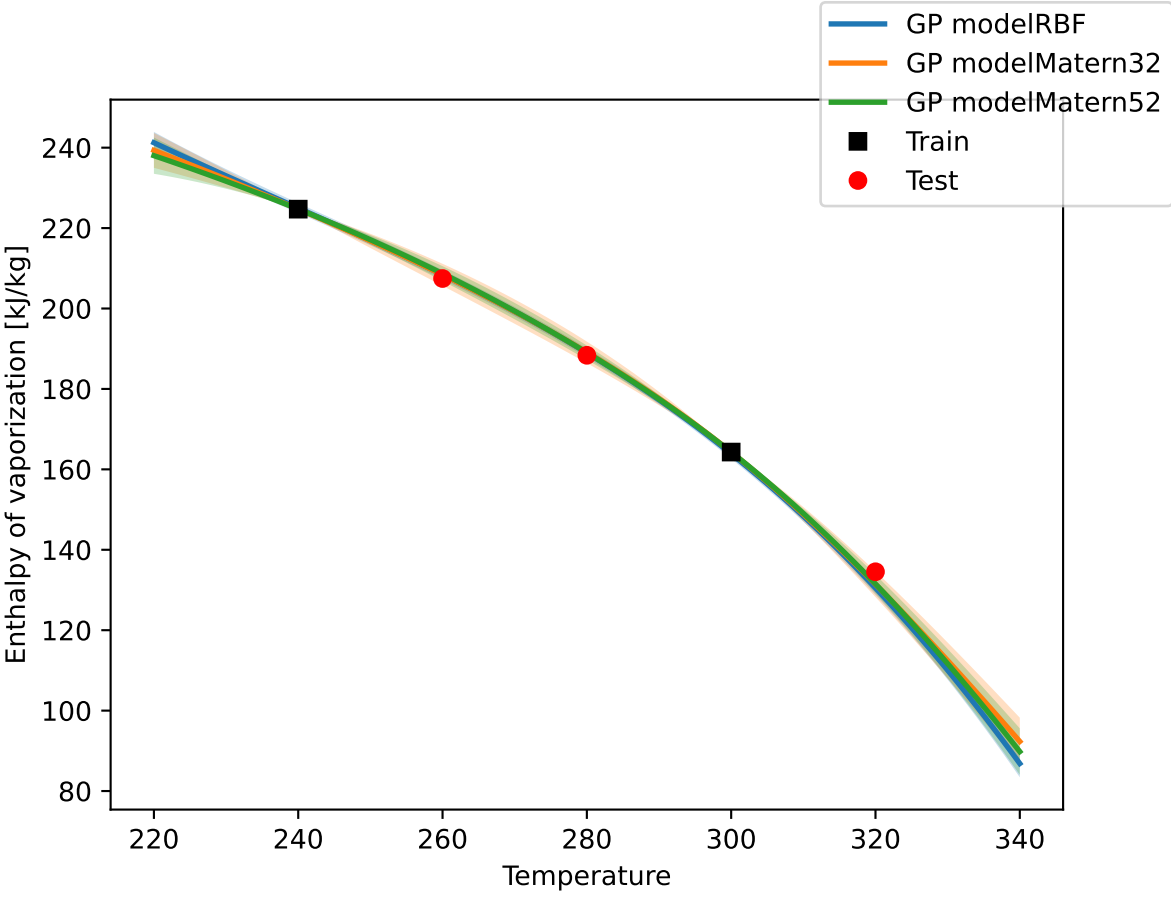

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340

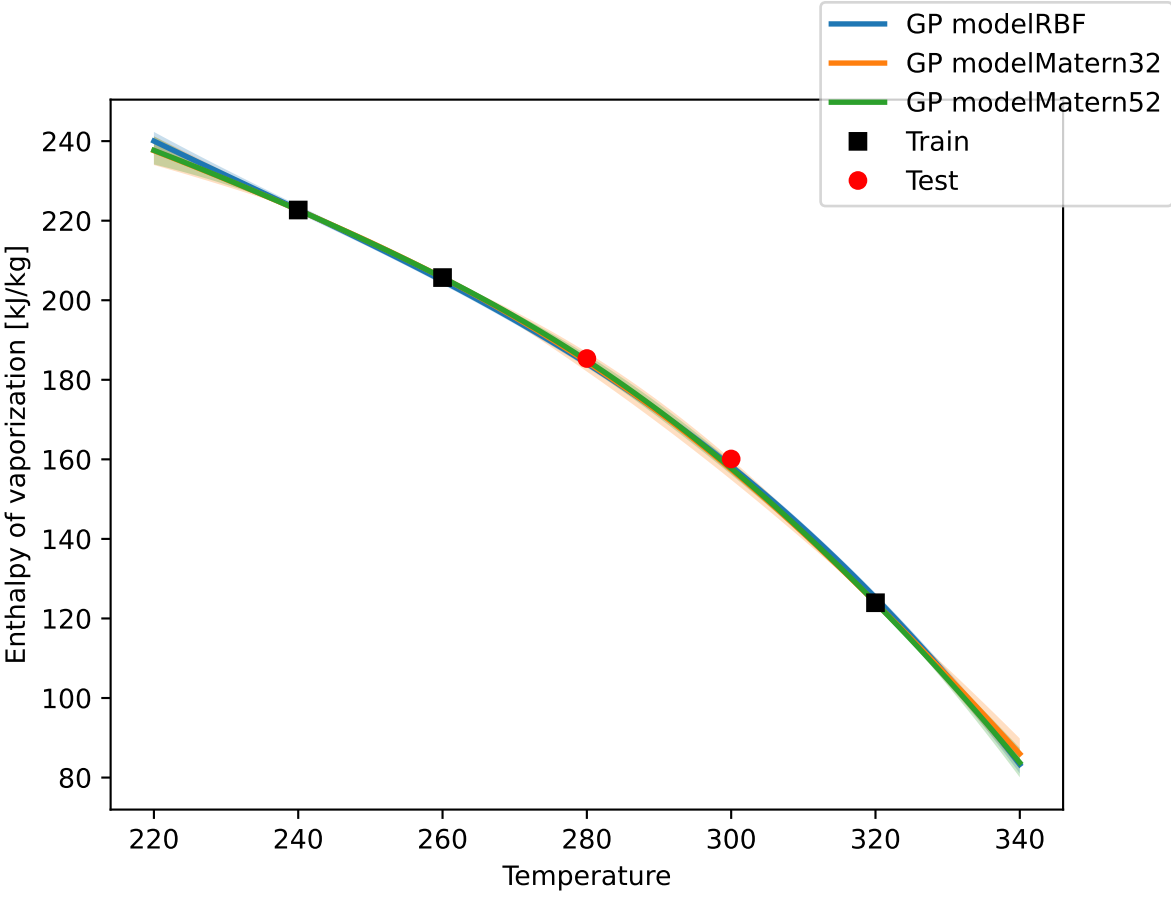

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340
Temperature

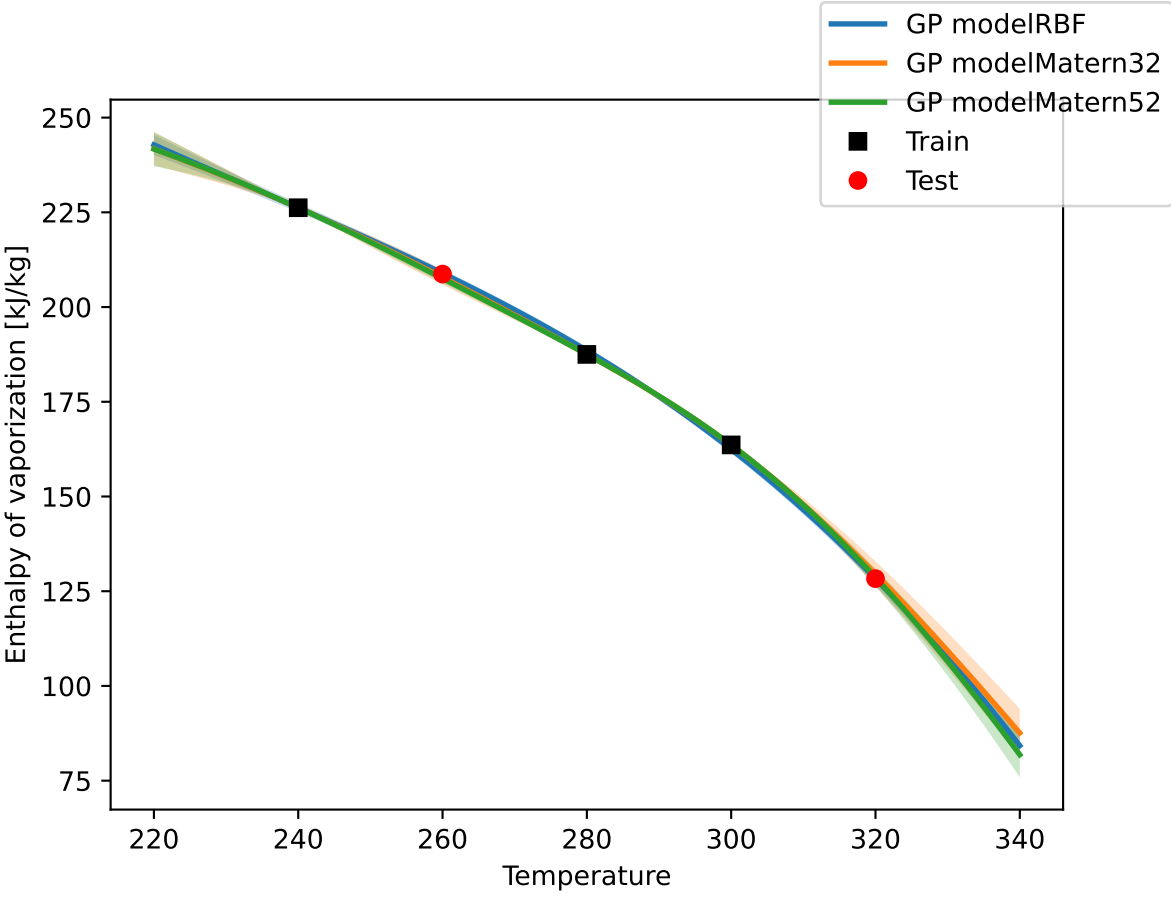

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
100
120
140
160
180
200
220
240
220
240
260
280
300
320
340

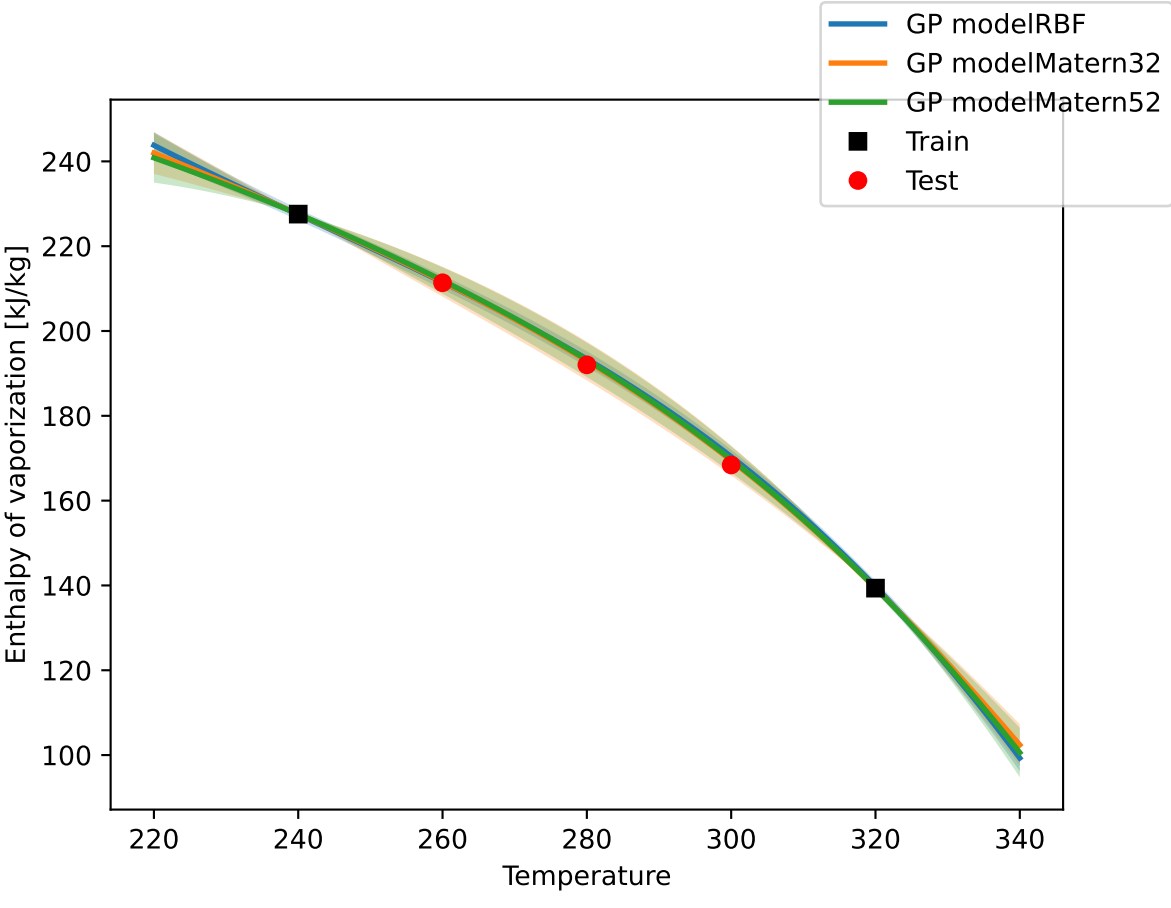

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
225
200
175
150
125
100
75
50
220
240
260
280
300
320
340

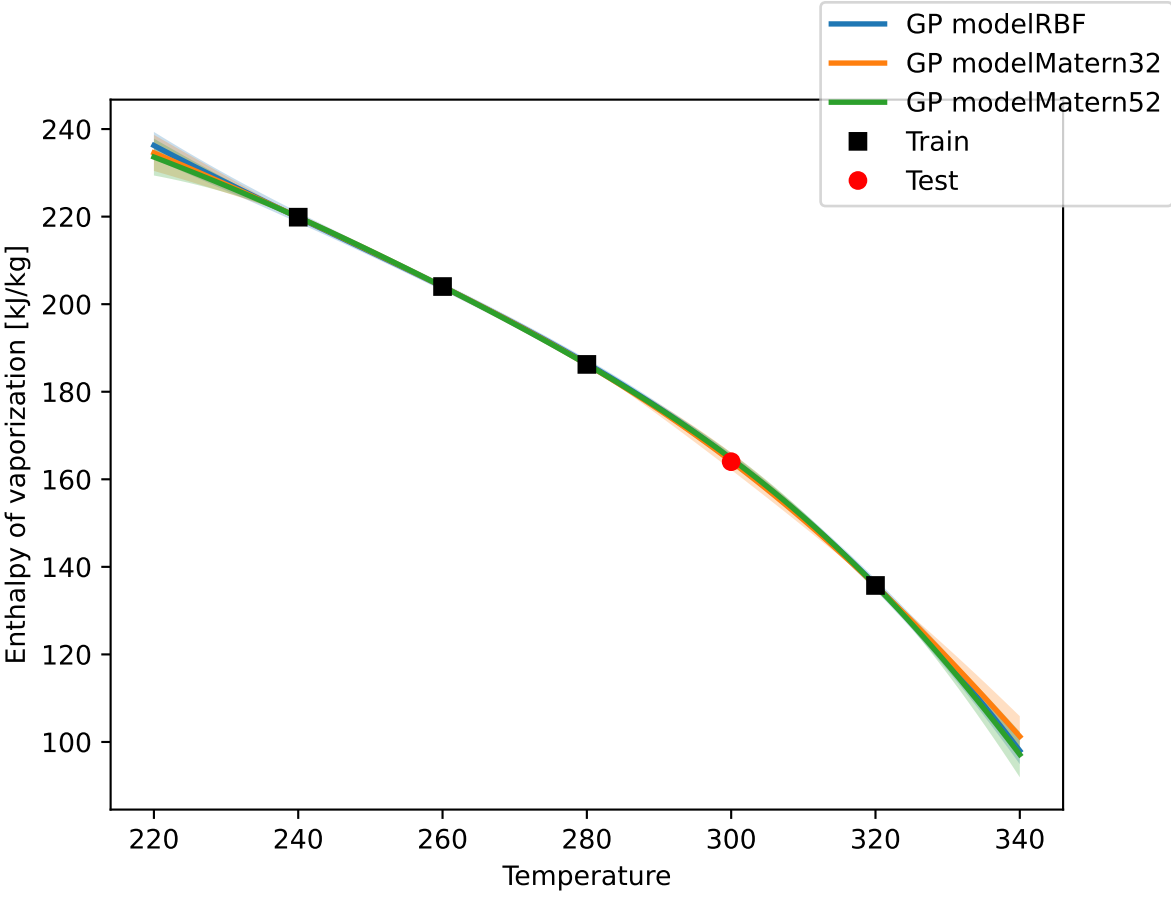

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340

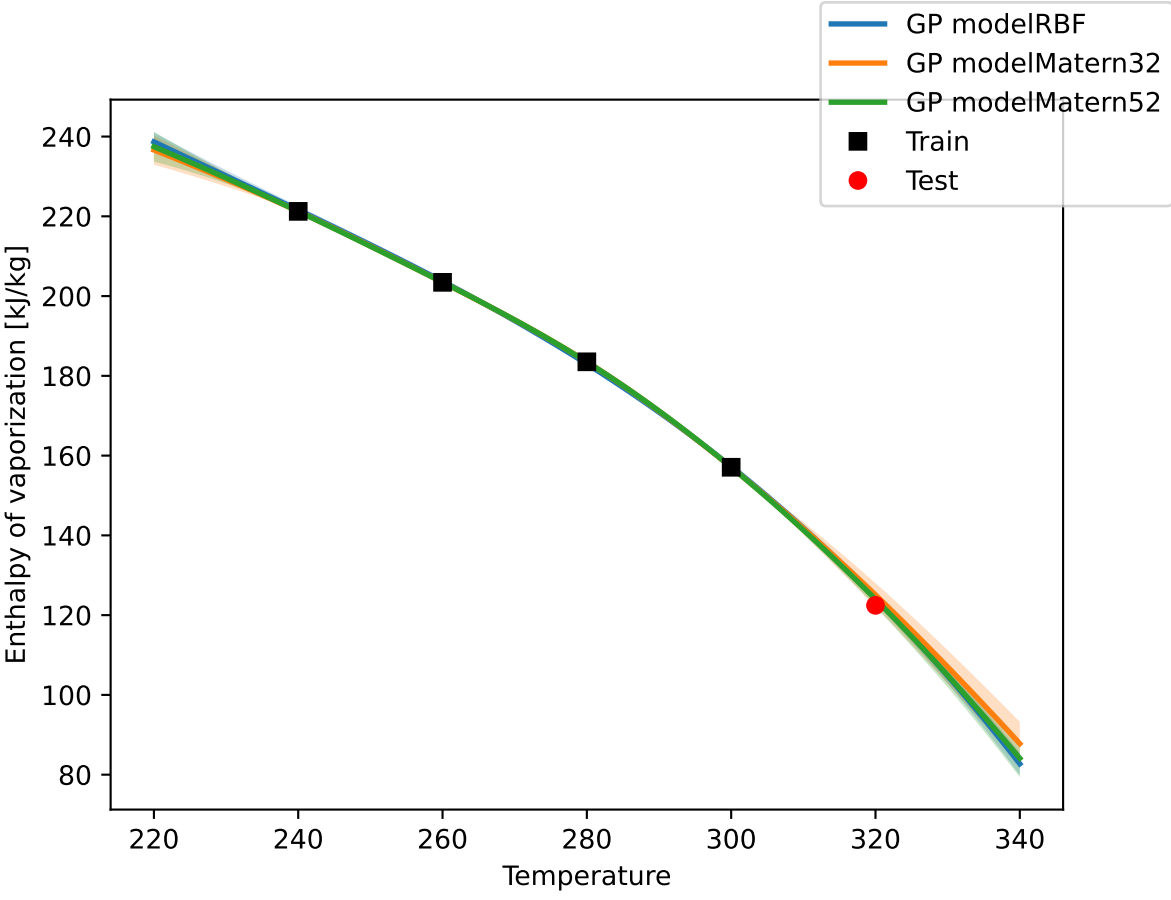

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
80
220
240
260
280
300
320
340

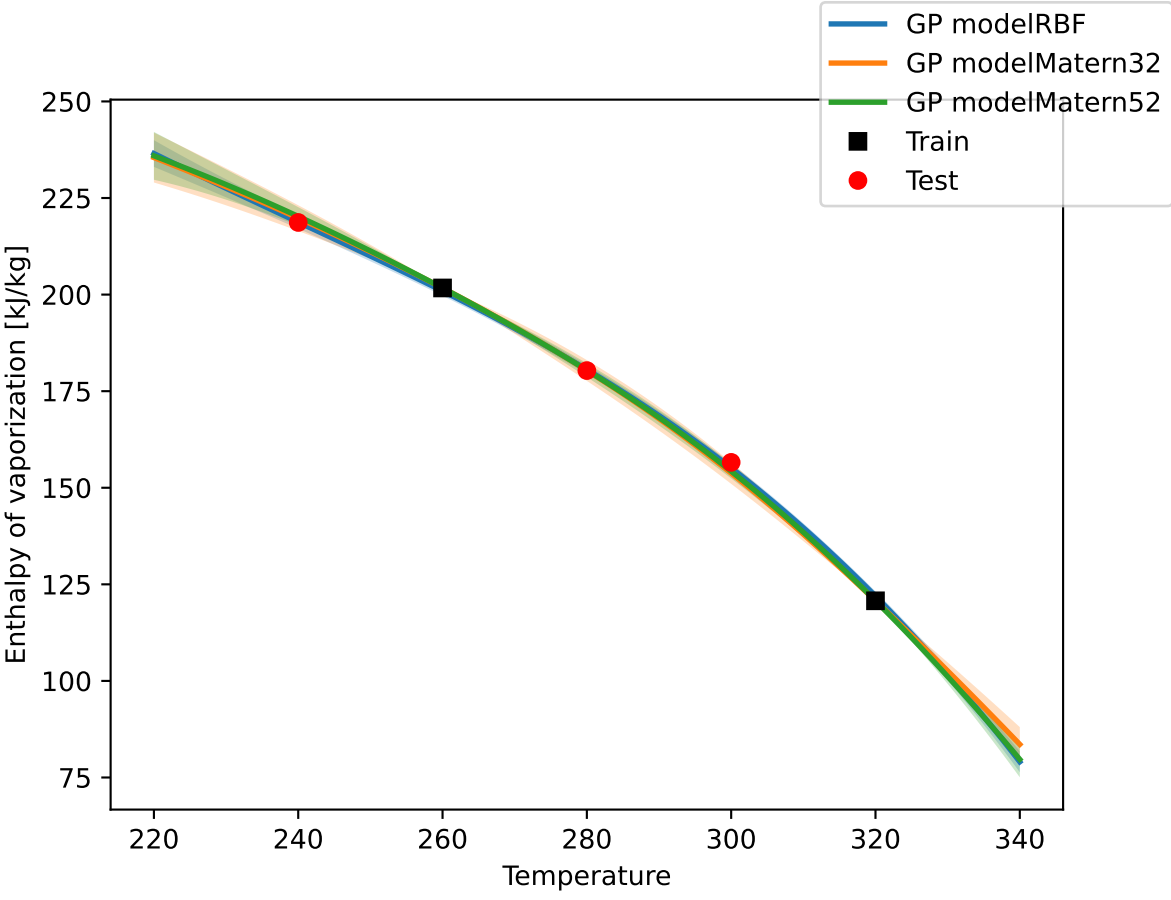

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
80
220
240
260
280
300
320
340

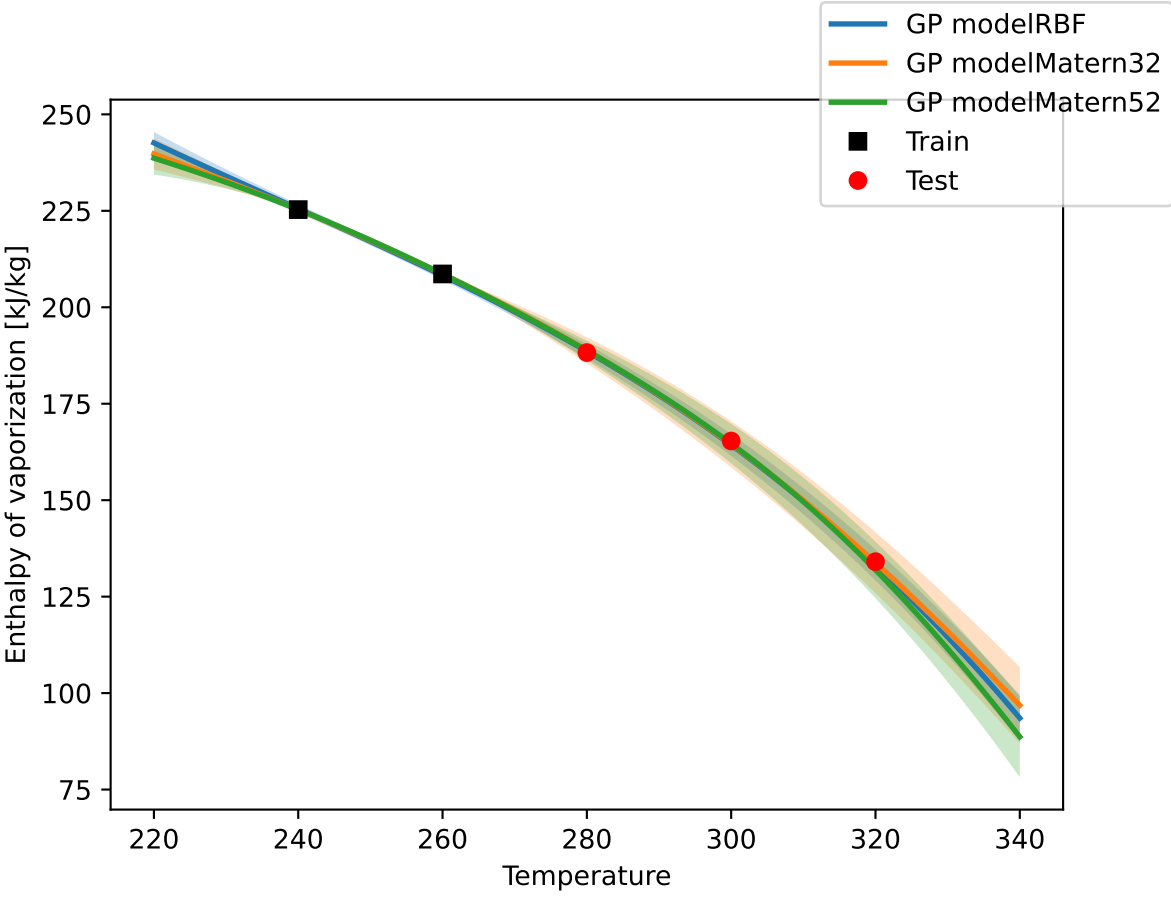

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
250
225
200
175
150
125
100
75
220
240
260
280
300
320
340
Temperature

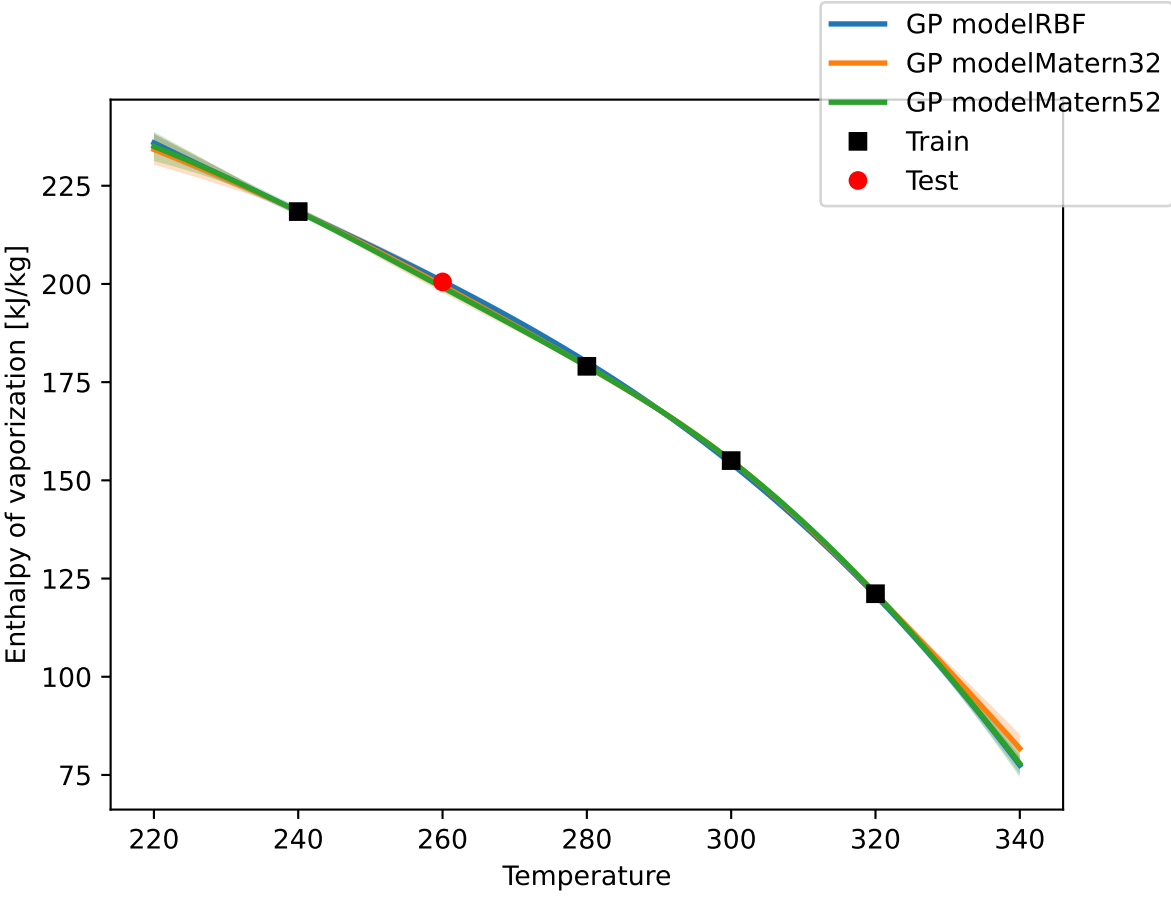

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340

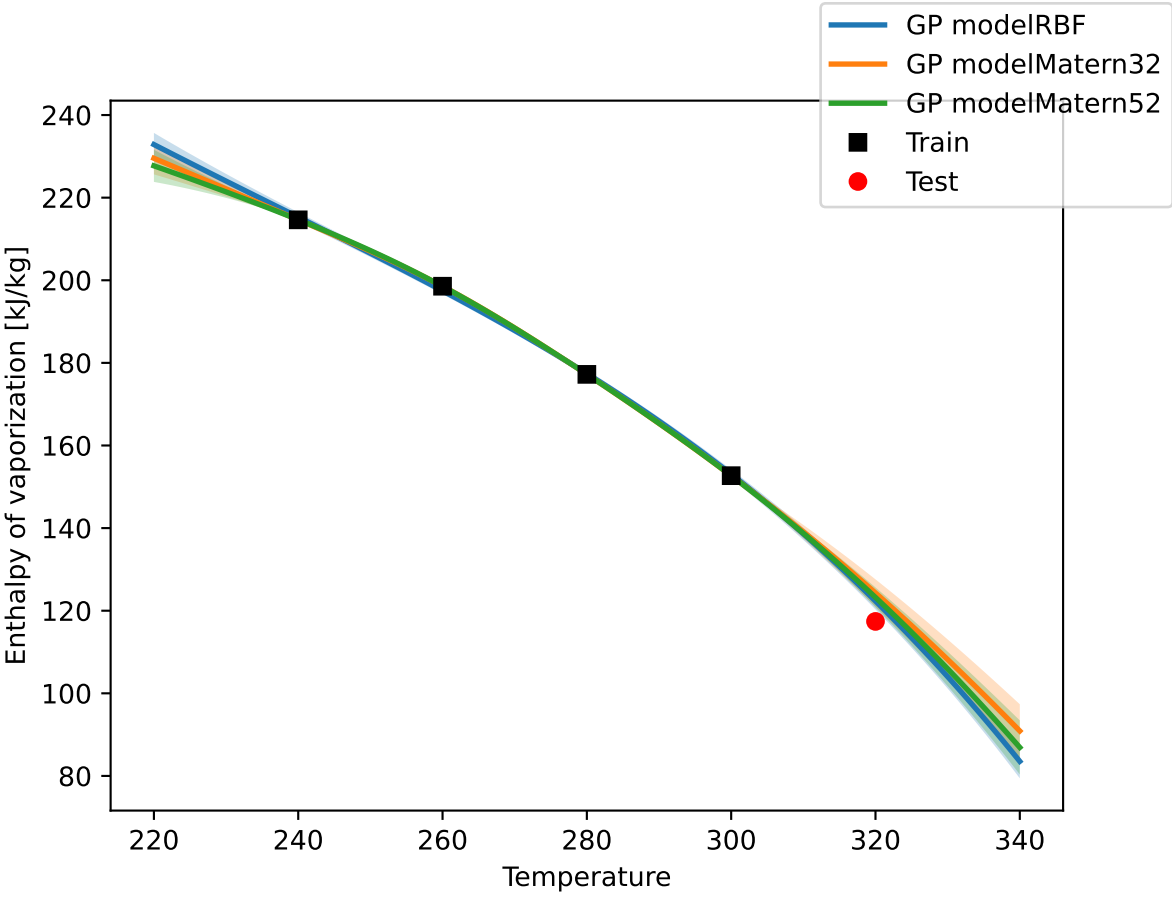

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340

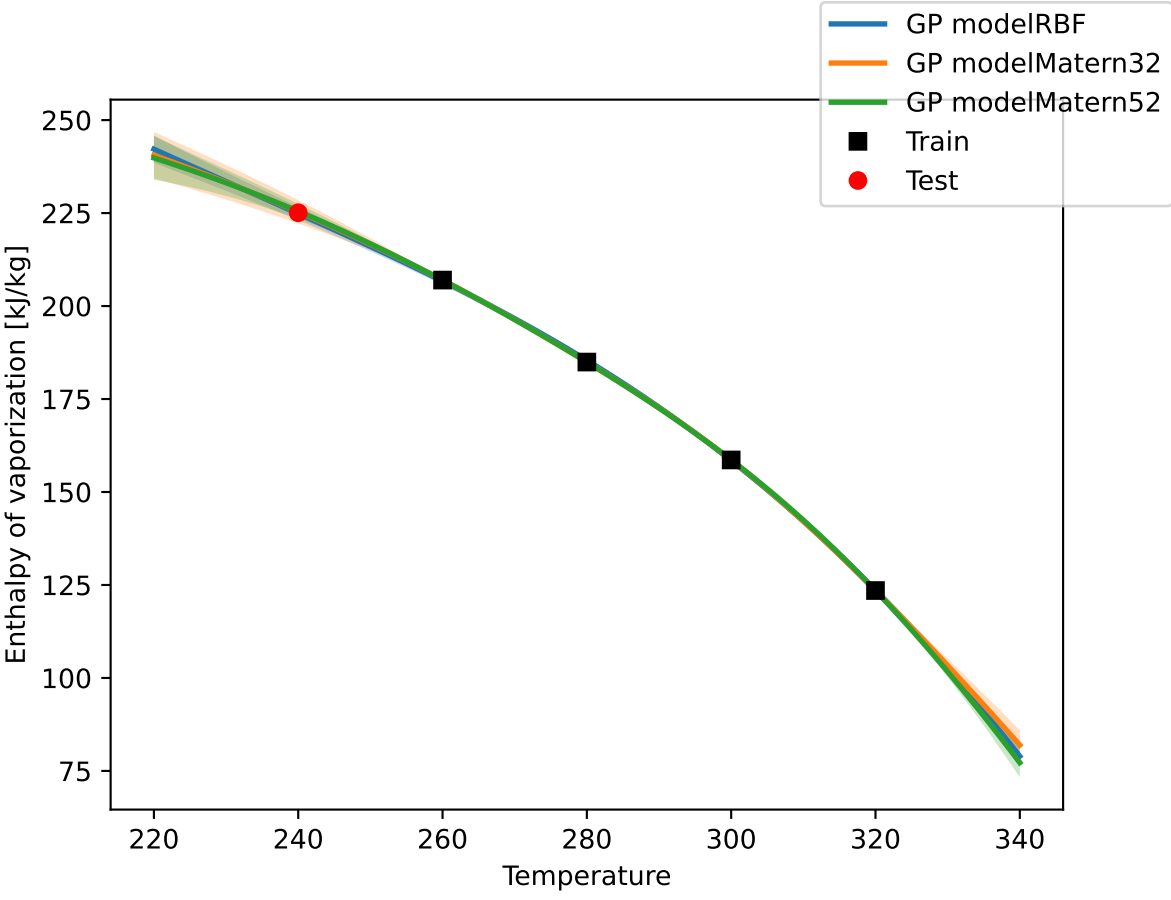

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
80
220
240
260
280
300
320
340

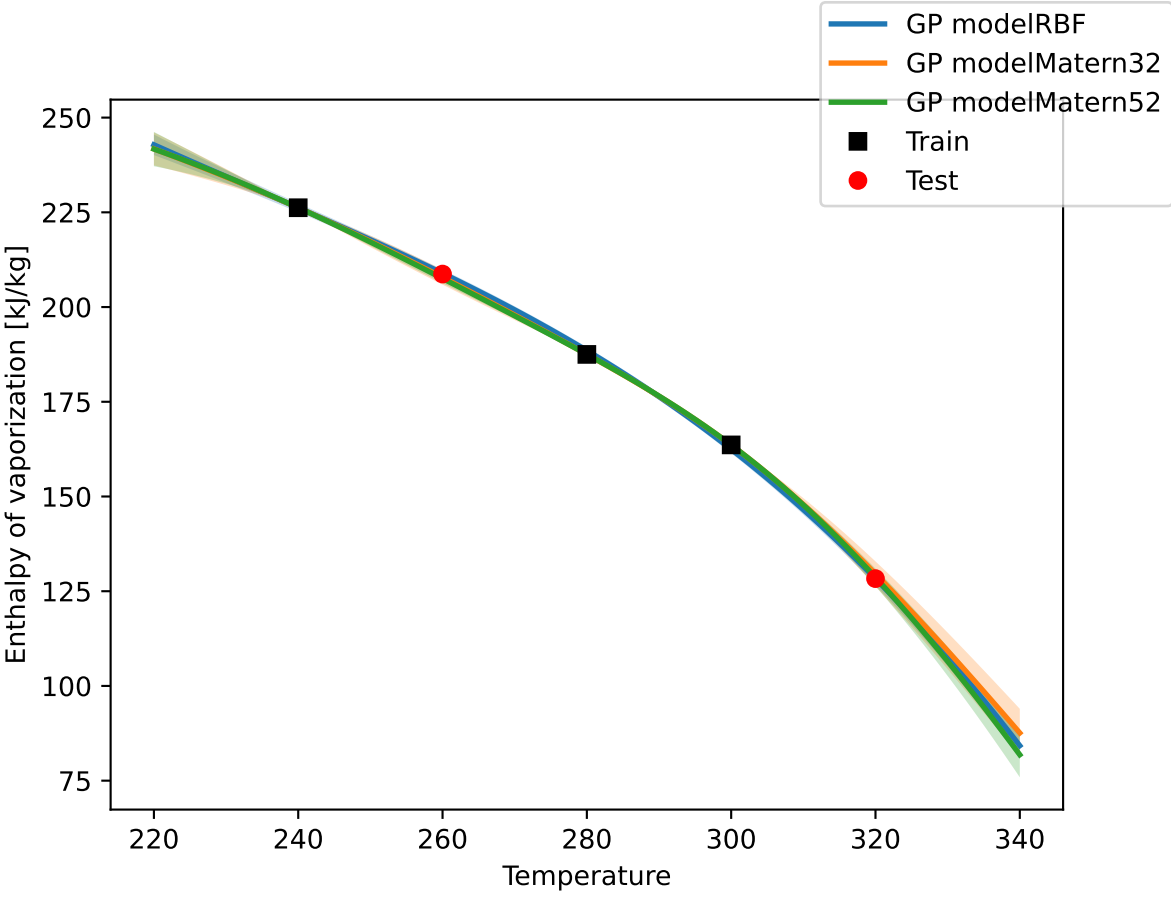

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
250
225
200
175
150
125
100
75
Enthalpy of vaporization [kJ/kg]
220
240
260
280
300
320
340
Temperature

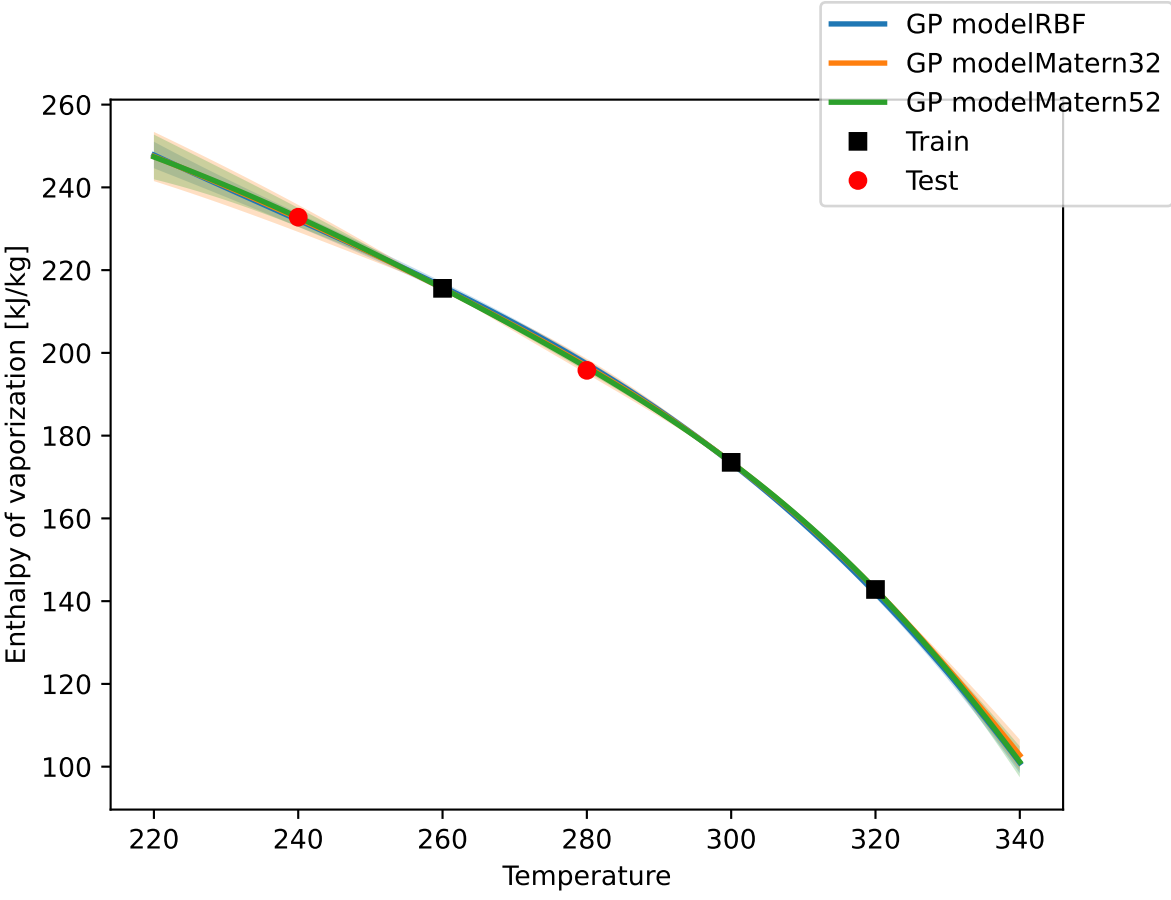

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
250
225
200
175
150
125
100
75
220
240
260
280
300
320
340

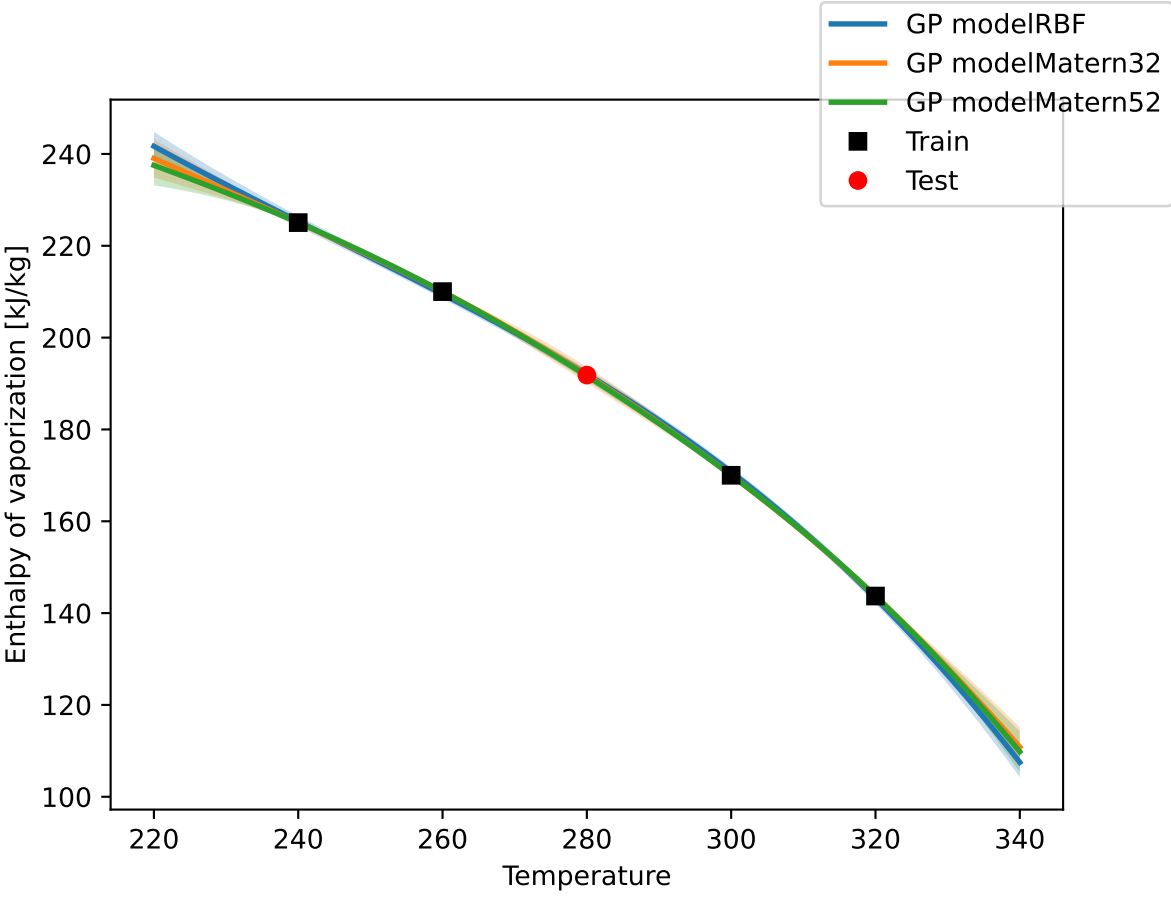

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
225
200
175
150
125
100
75
220
240
260
280
300
320
340
Temperature

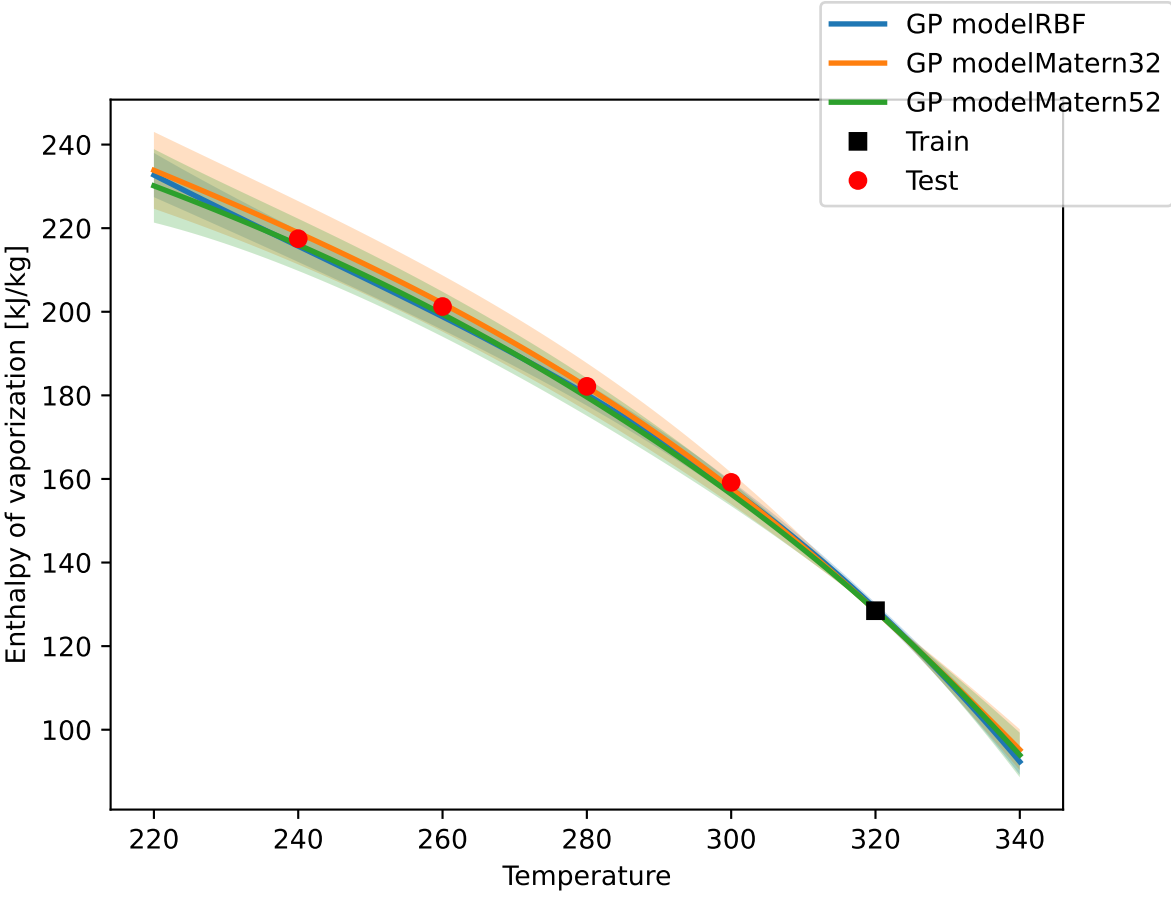

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
80
220
240
260
280
300
320
340

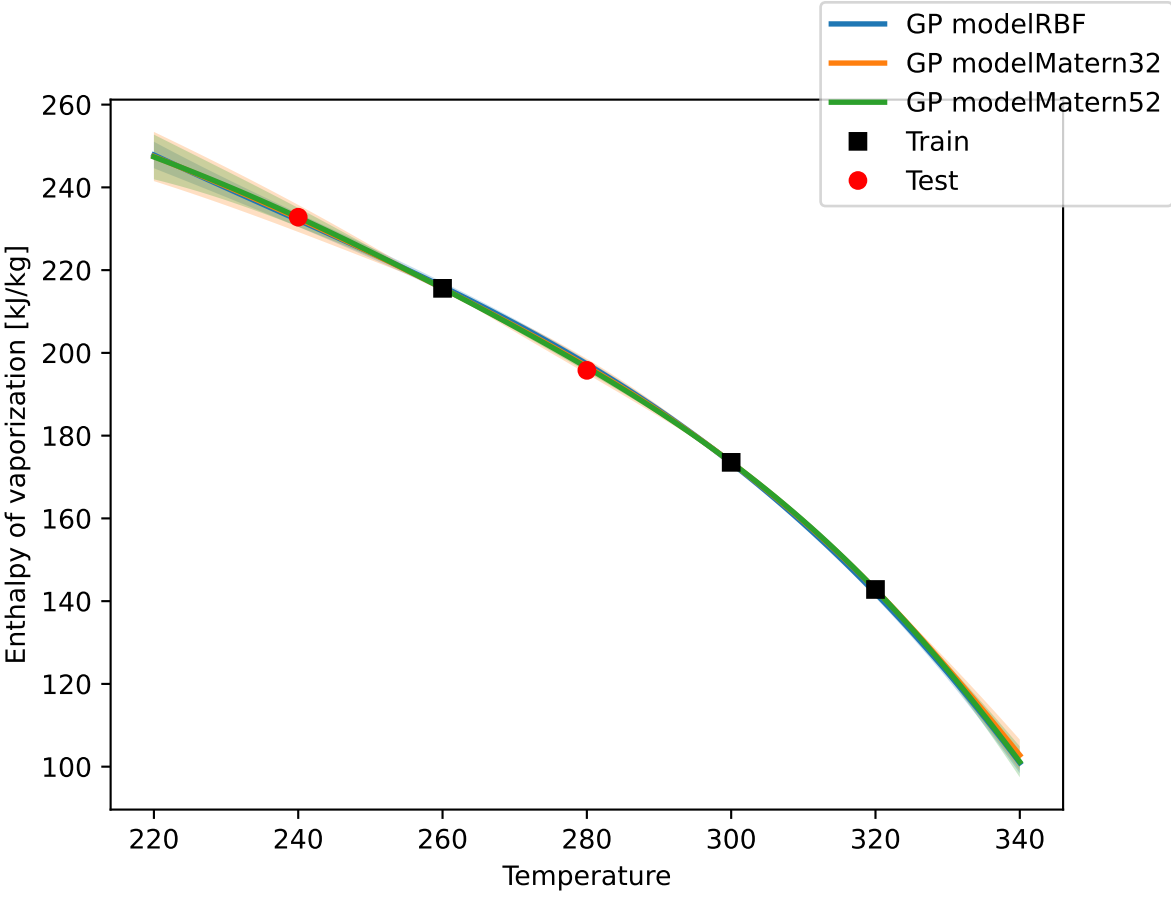

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
250
225
200
175
150
125
100
75
220
240
260
280
300
320
340
Temperature

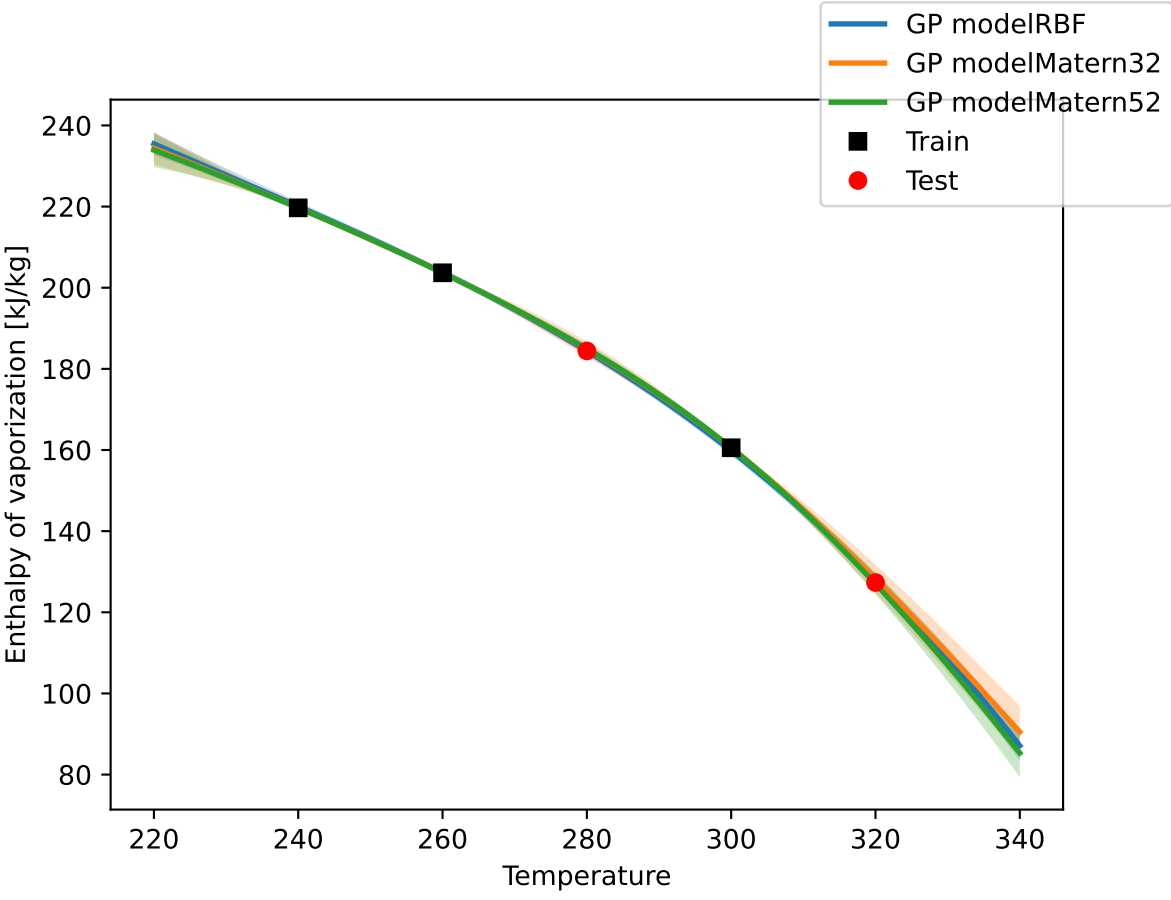

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
250
225
200
175
150
125
100
75
220
240
260
280
300
320
340
Temperature

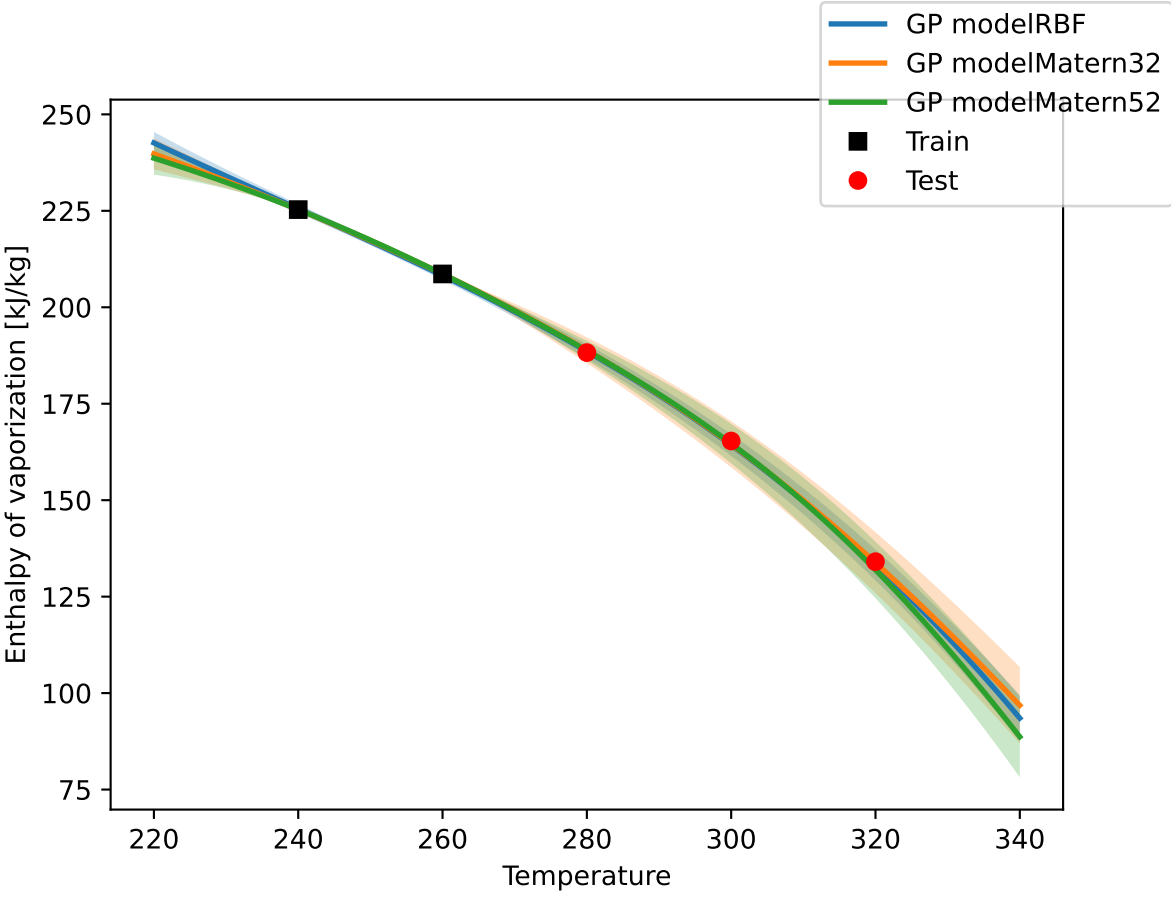

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
260
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
100
120
140
160
180
200
220
240
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
260
240
220
200
180
160
140
120
100
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
240
220
200
180
160
140
120
100
80
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
250
225
200
175
150
125
100
75
220
240
260
280
300
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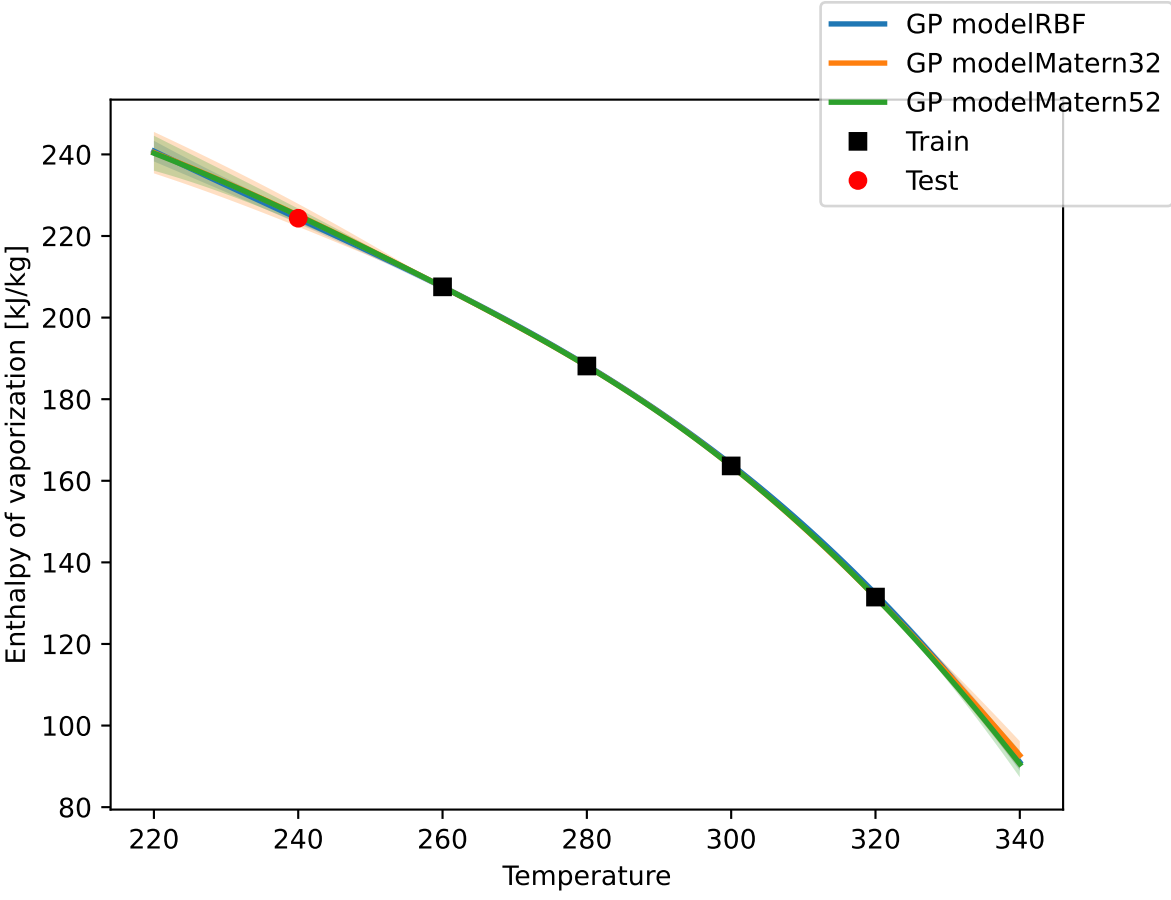
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Test
Enthalpy of vaporization [kJ/kg]
Temperature
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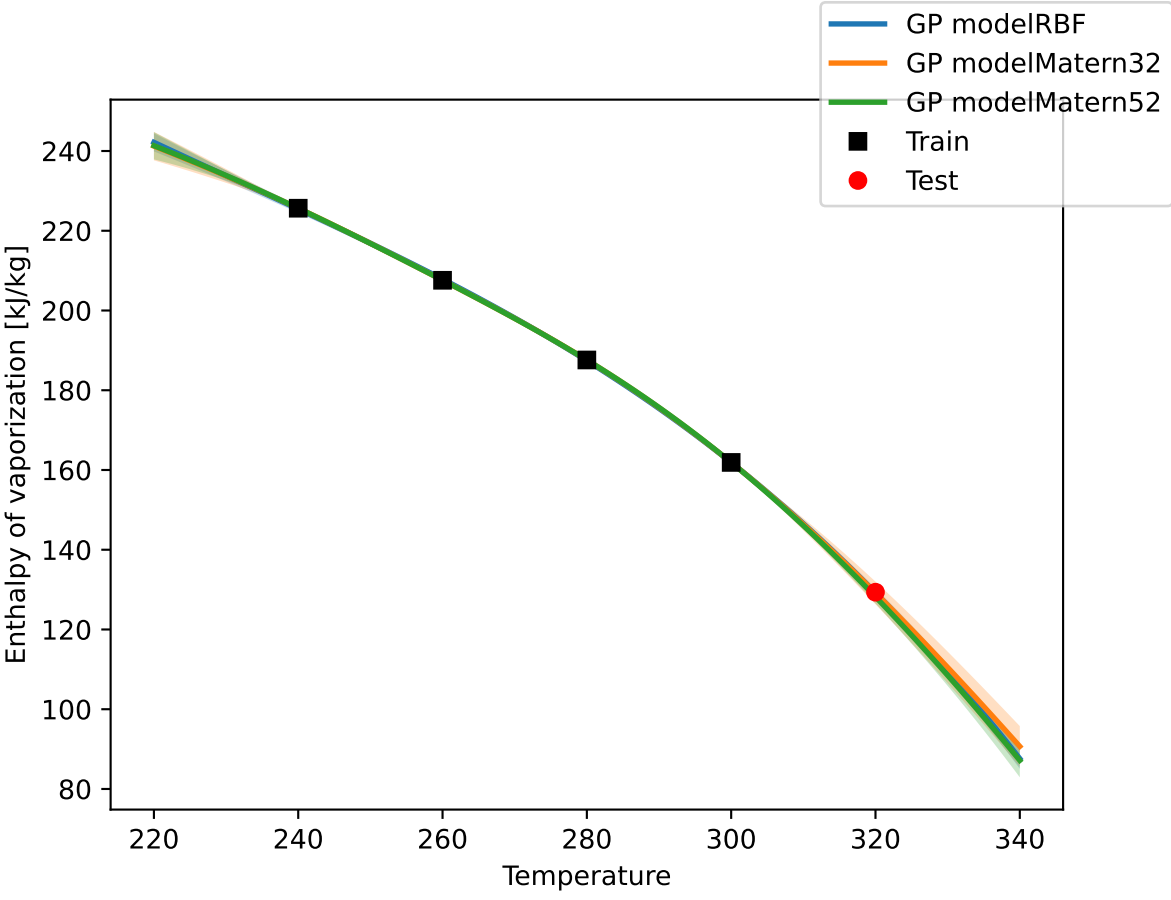
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Enthalpy of vaporization [kJ/kg]
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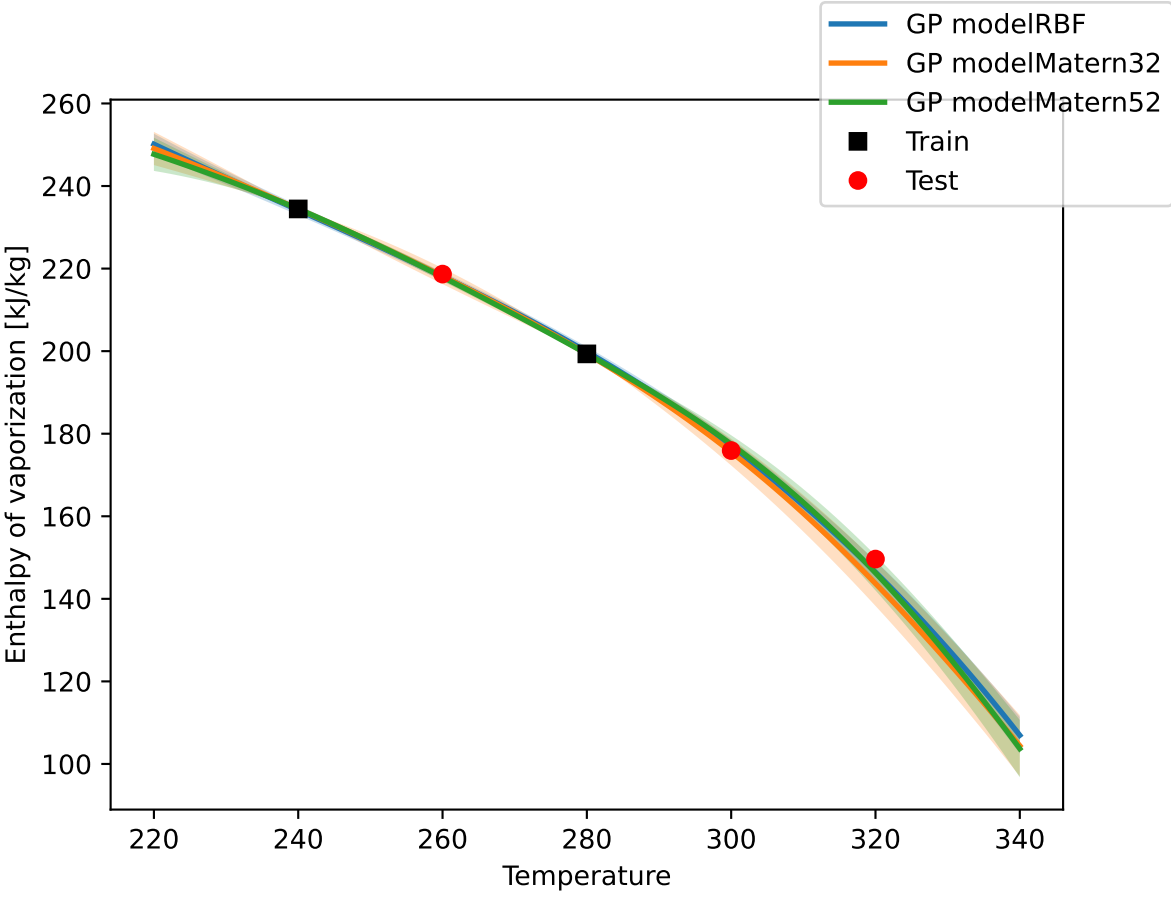
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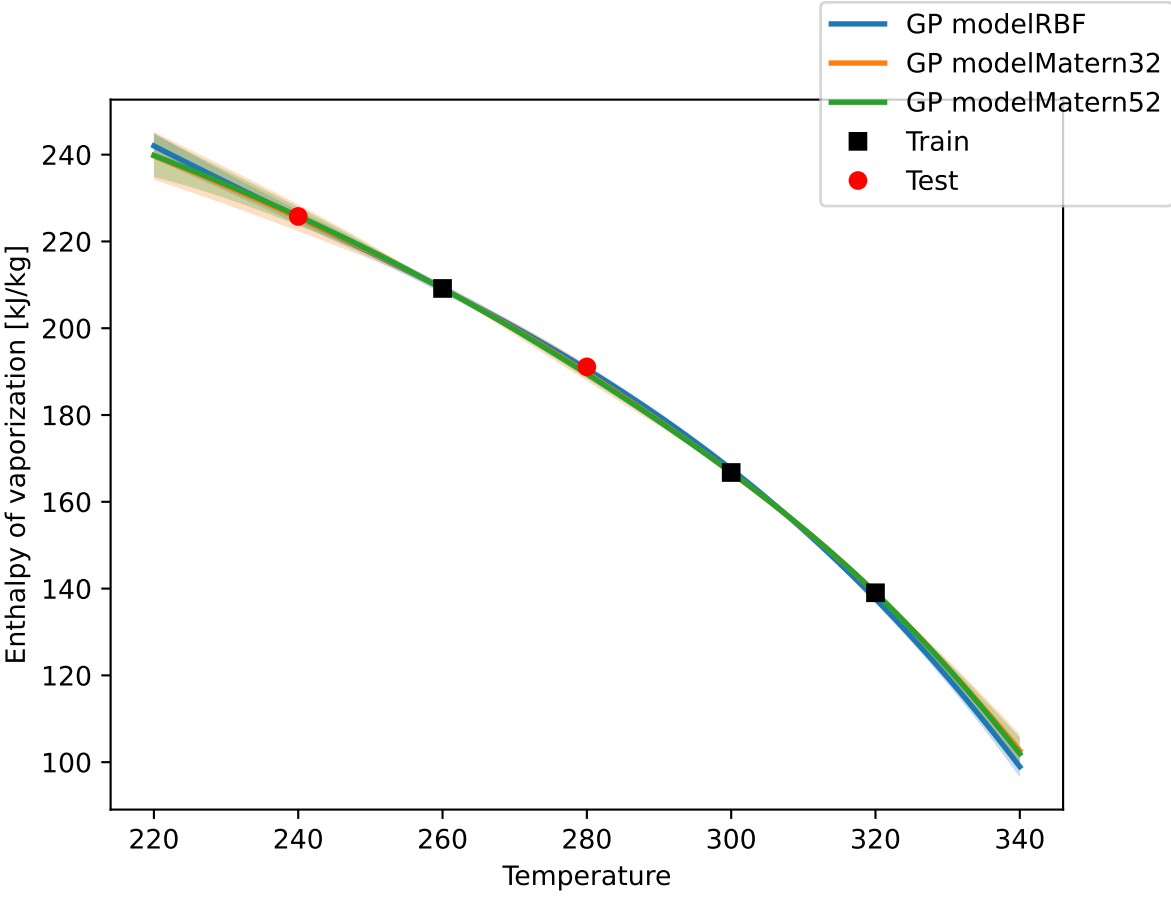
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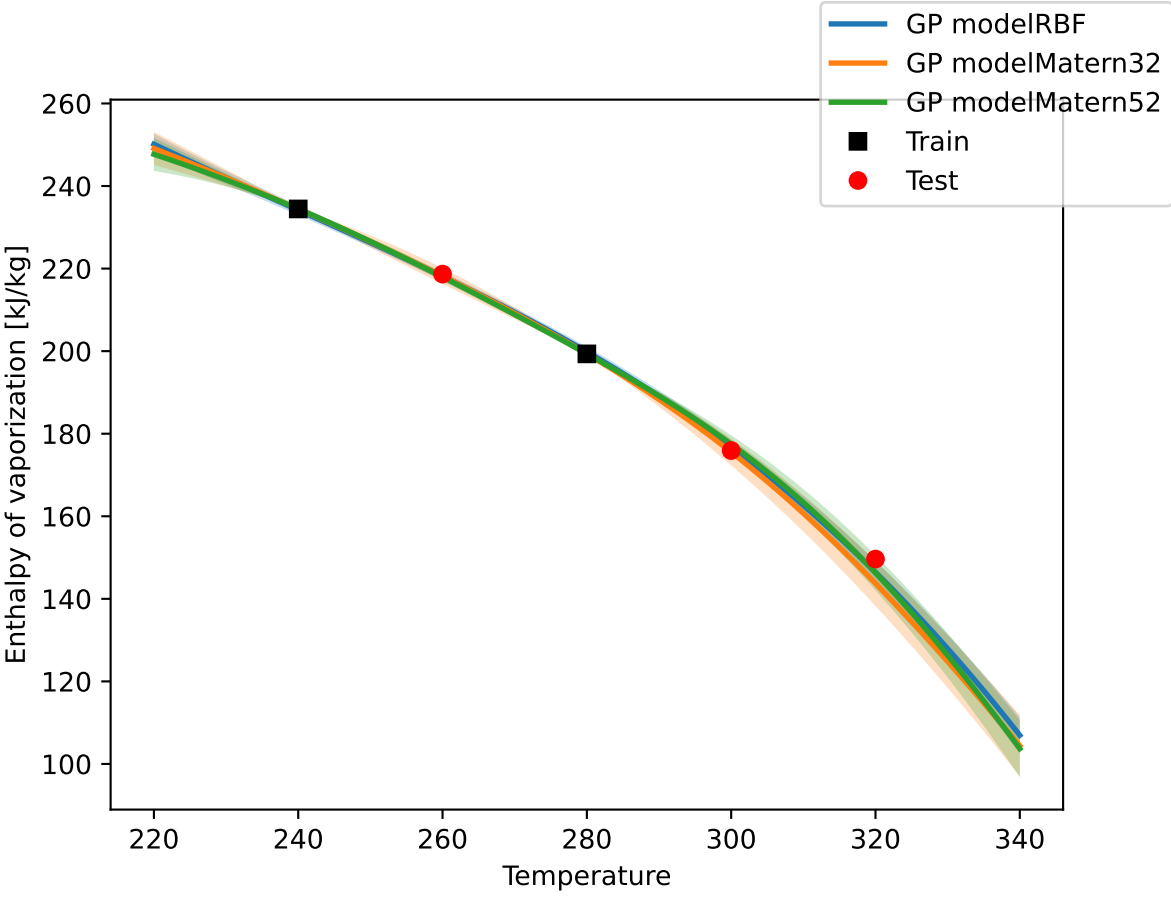
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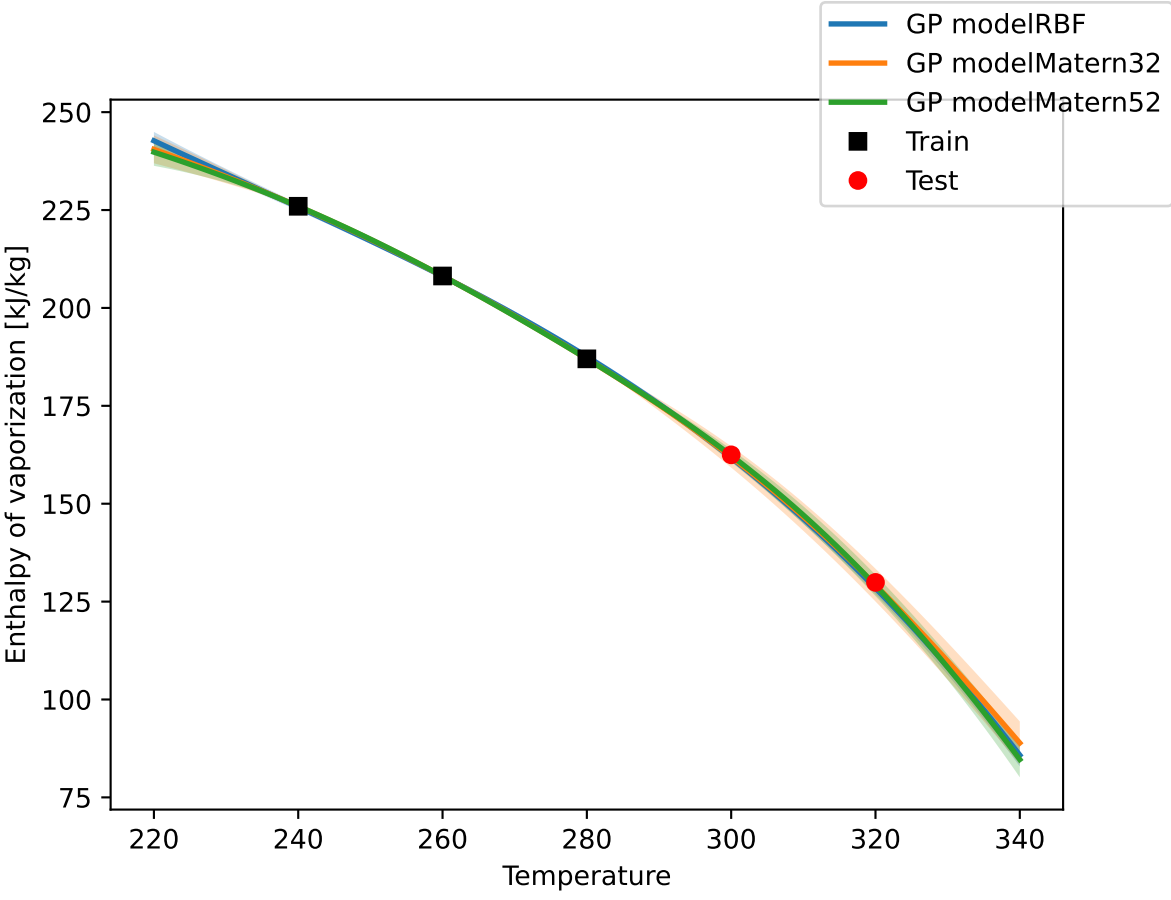
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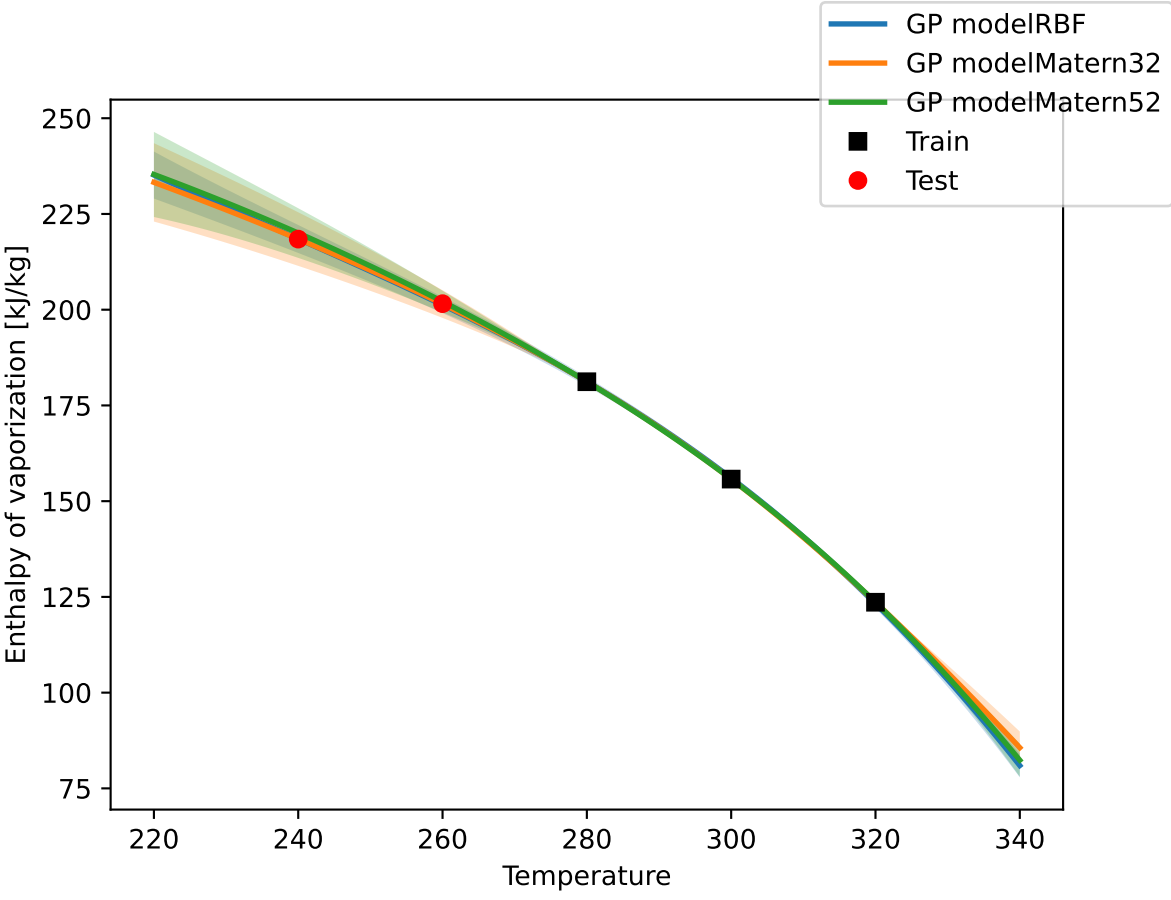
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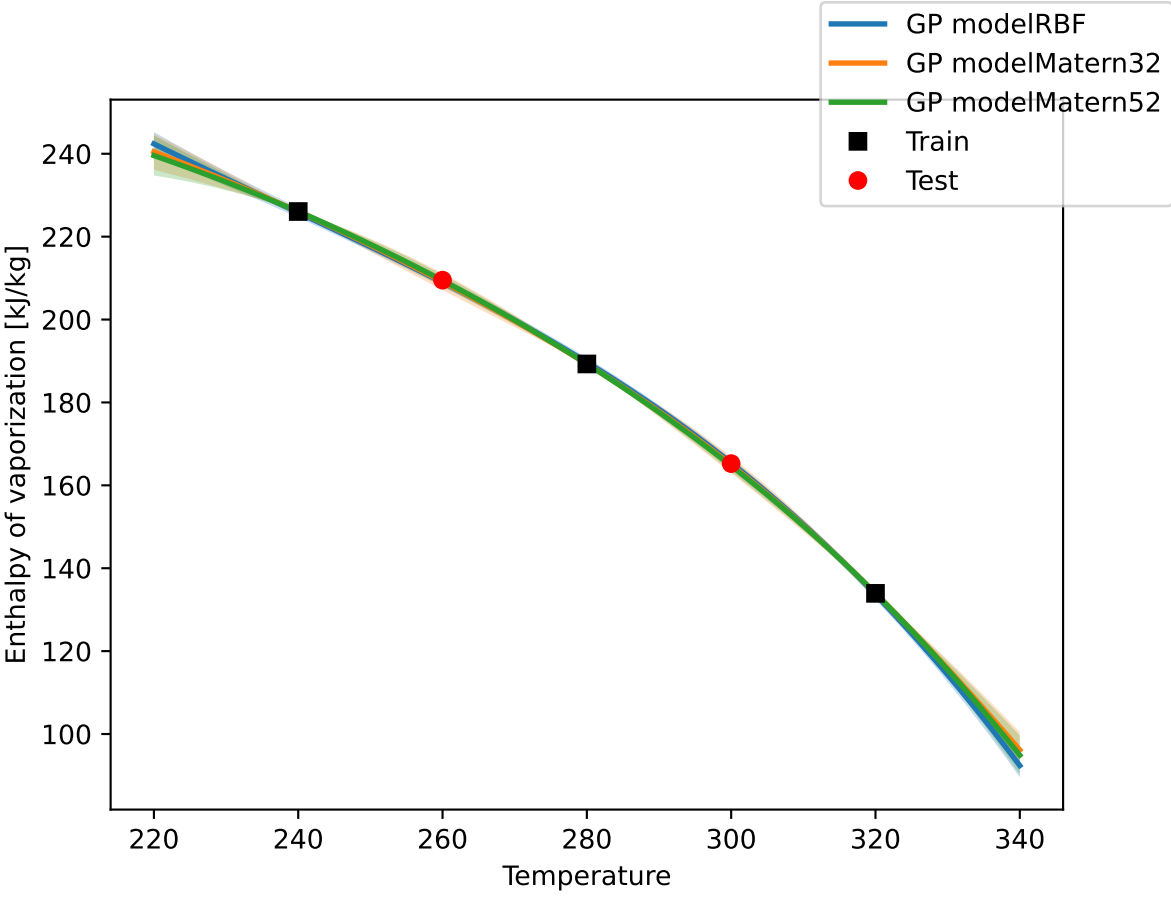
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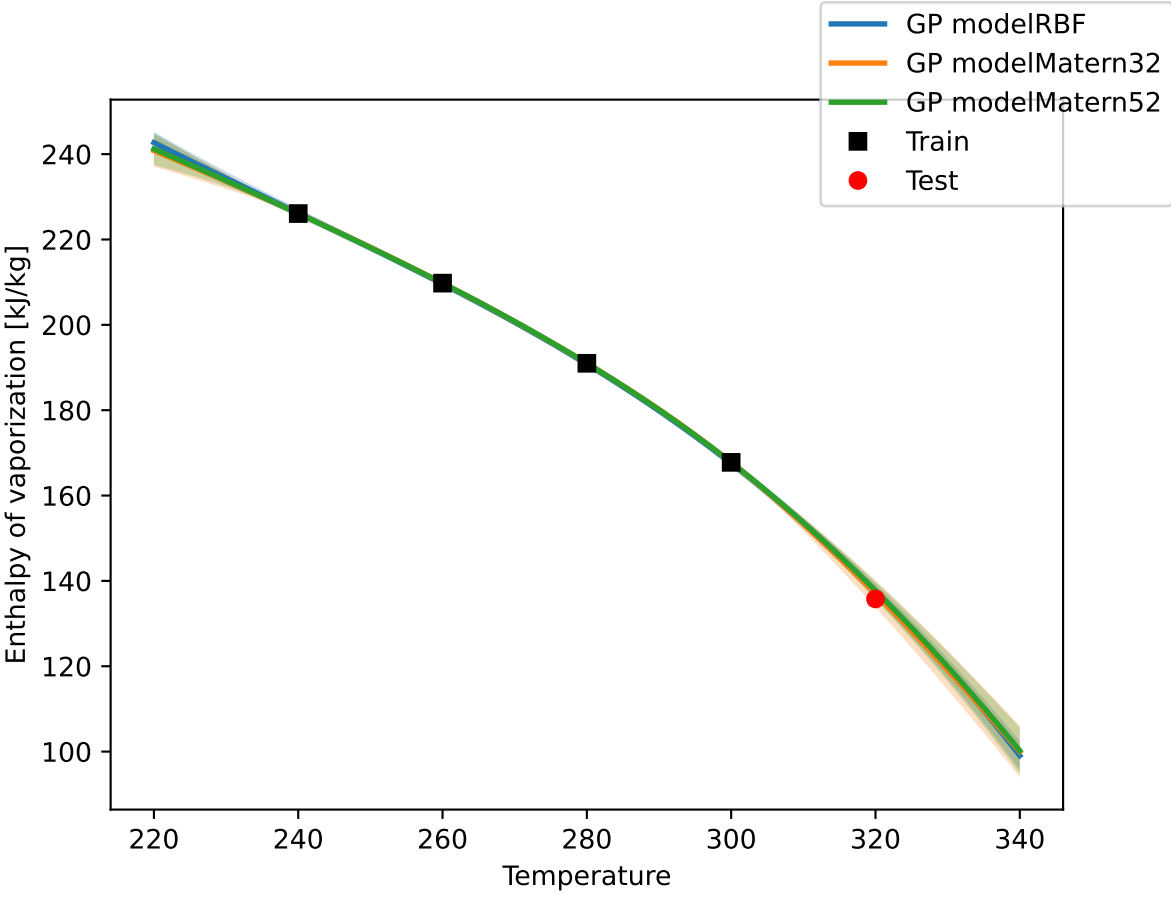
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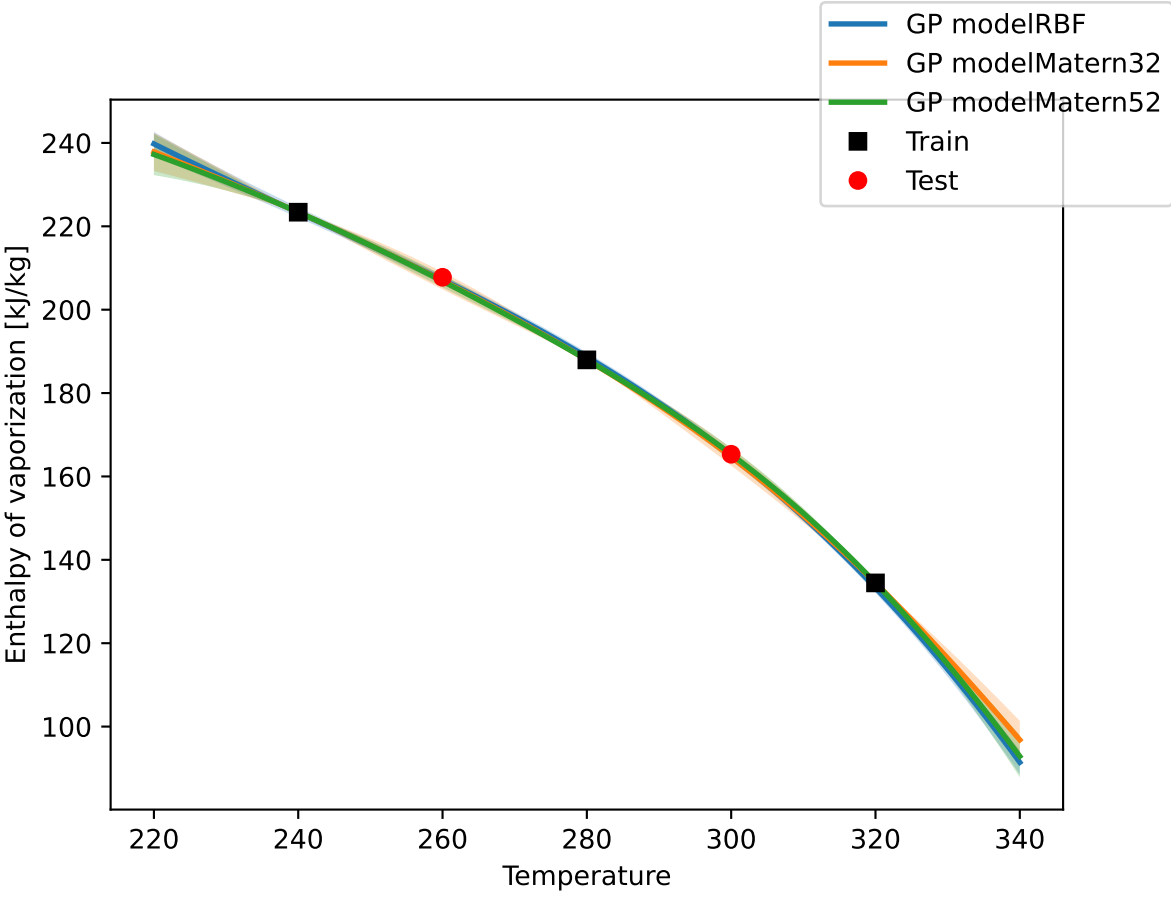
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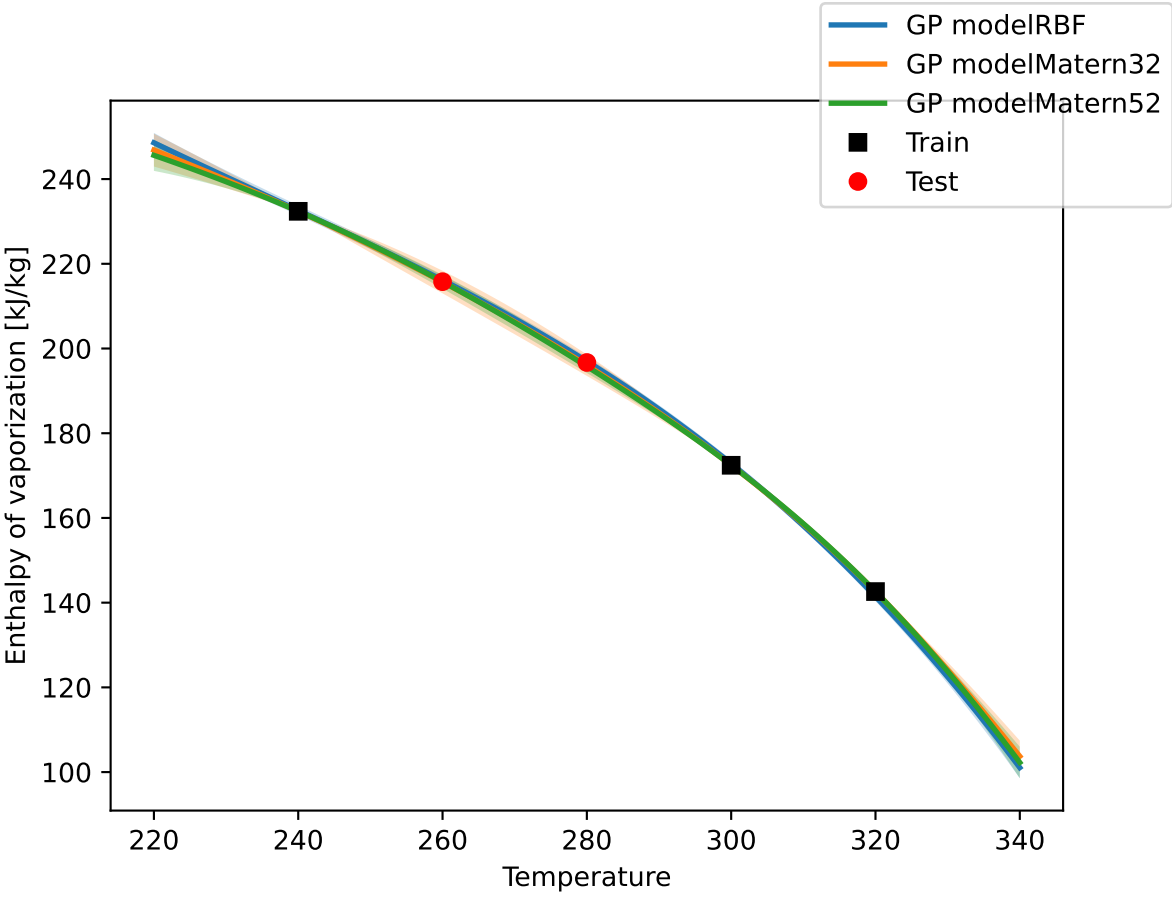
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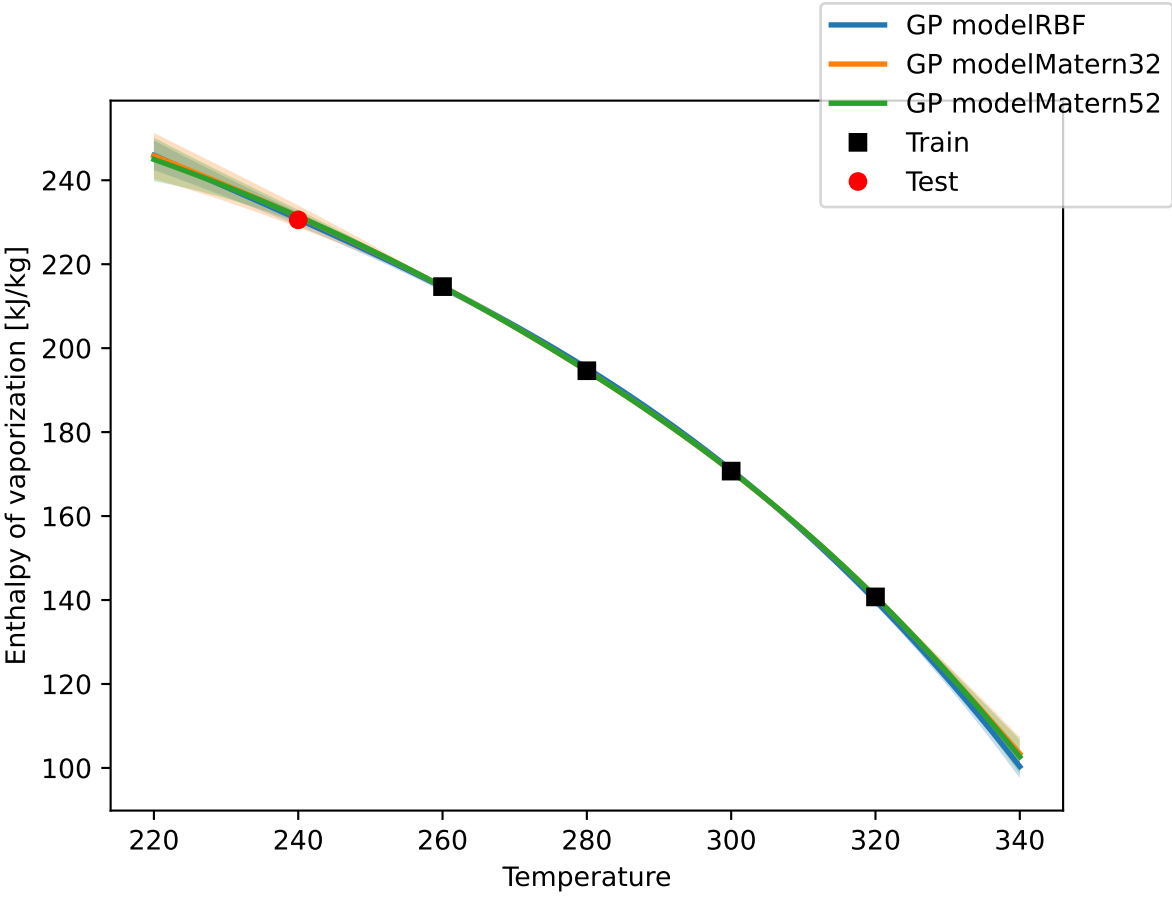
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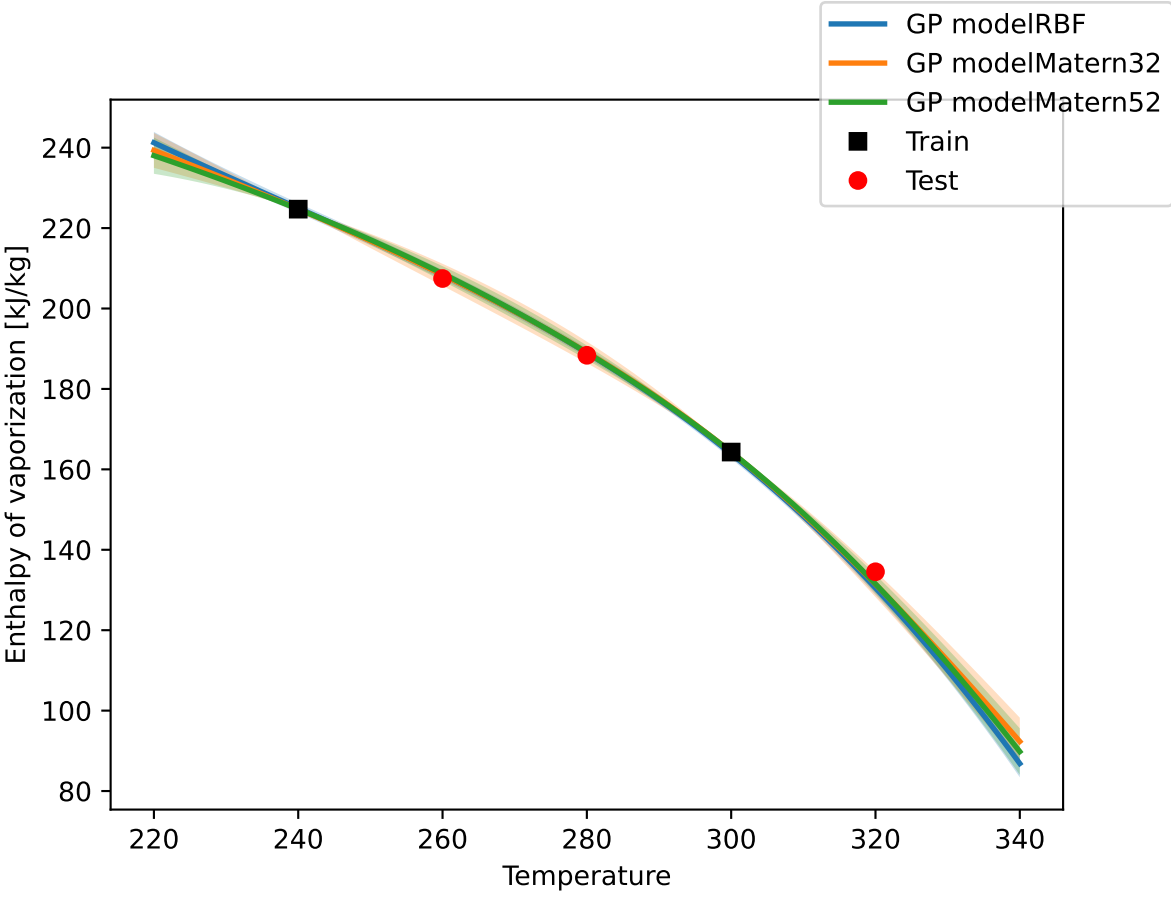
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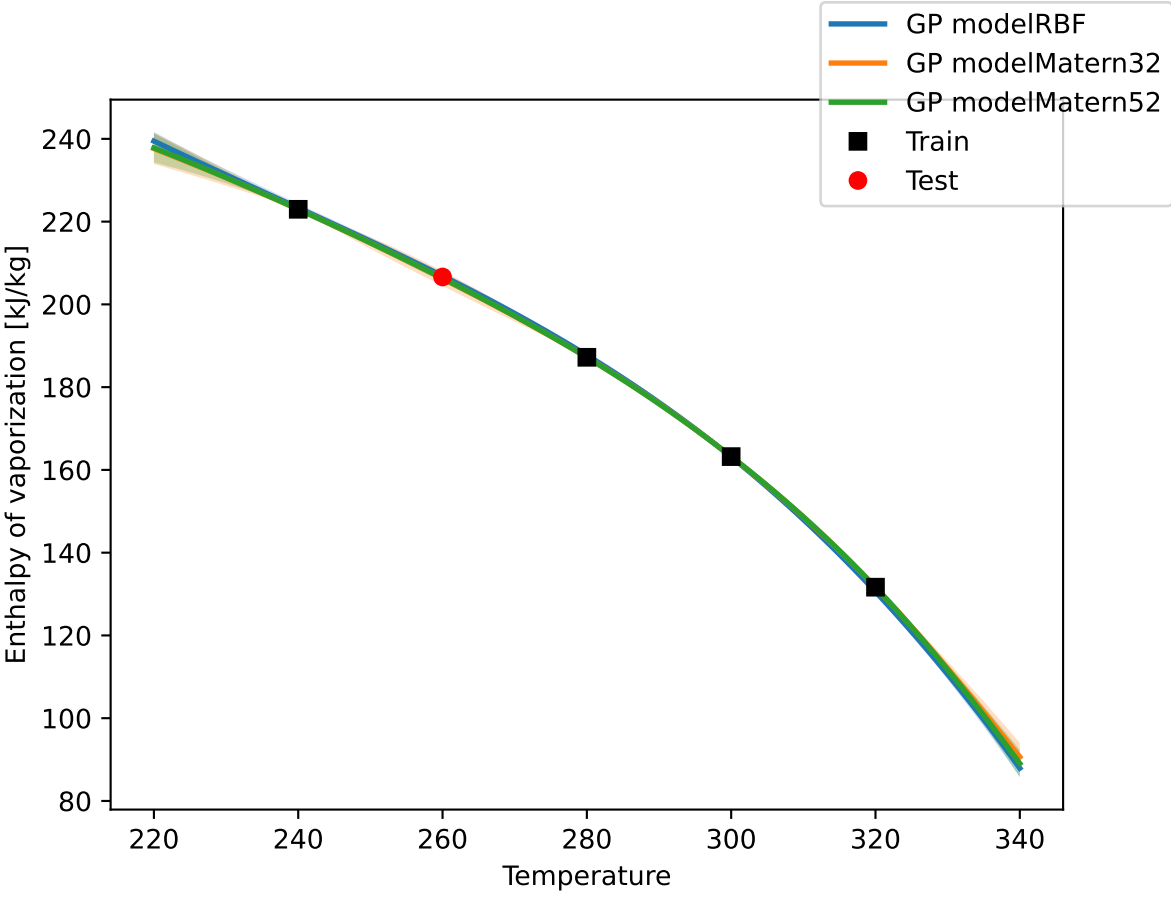
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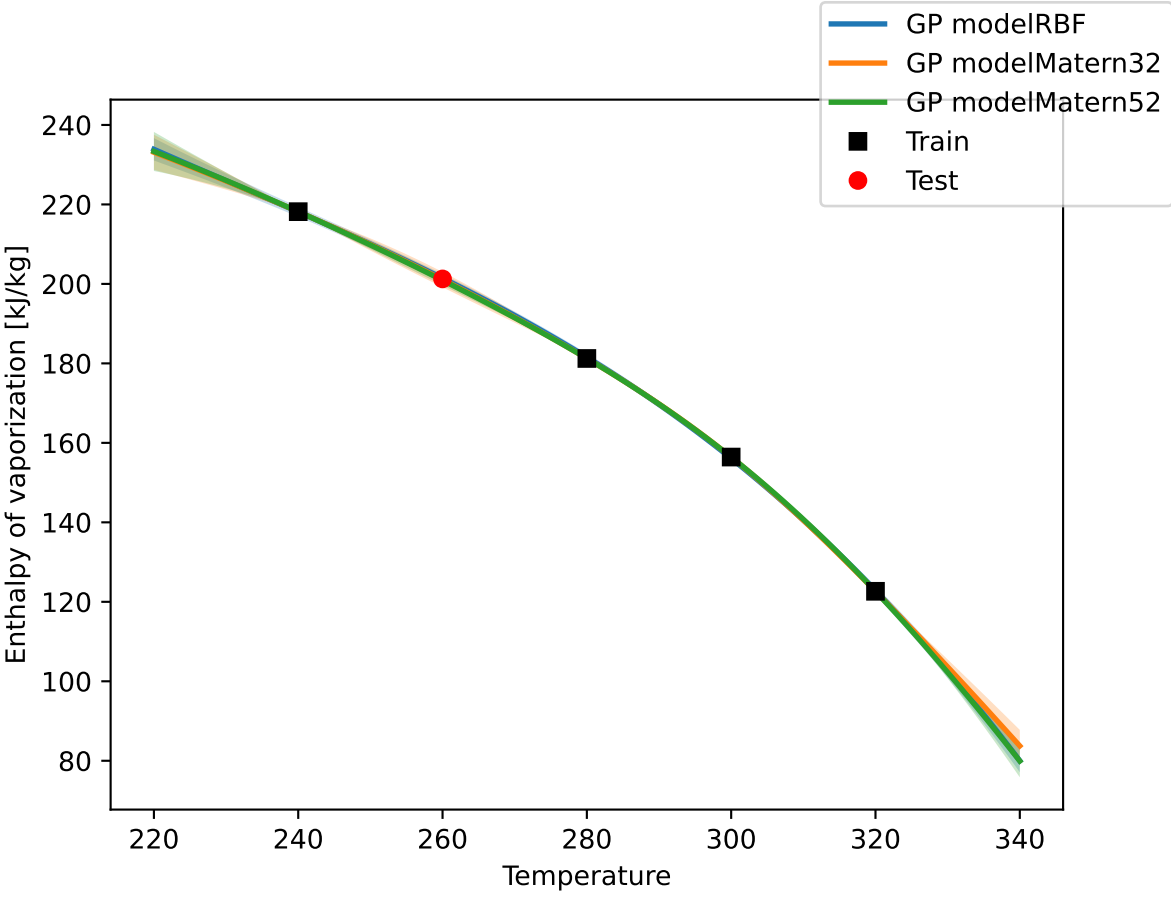
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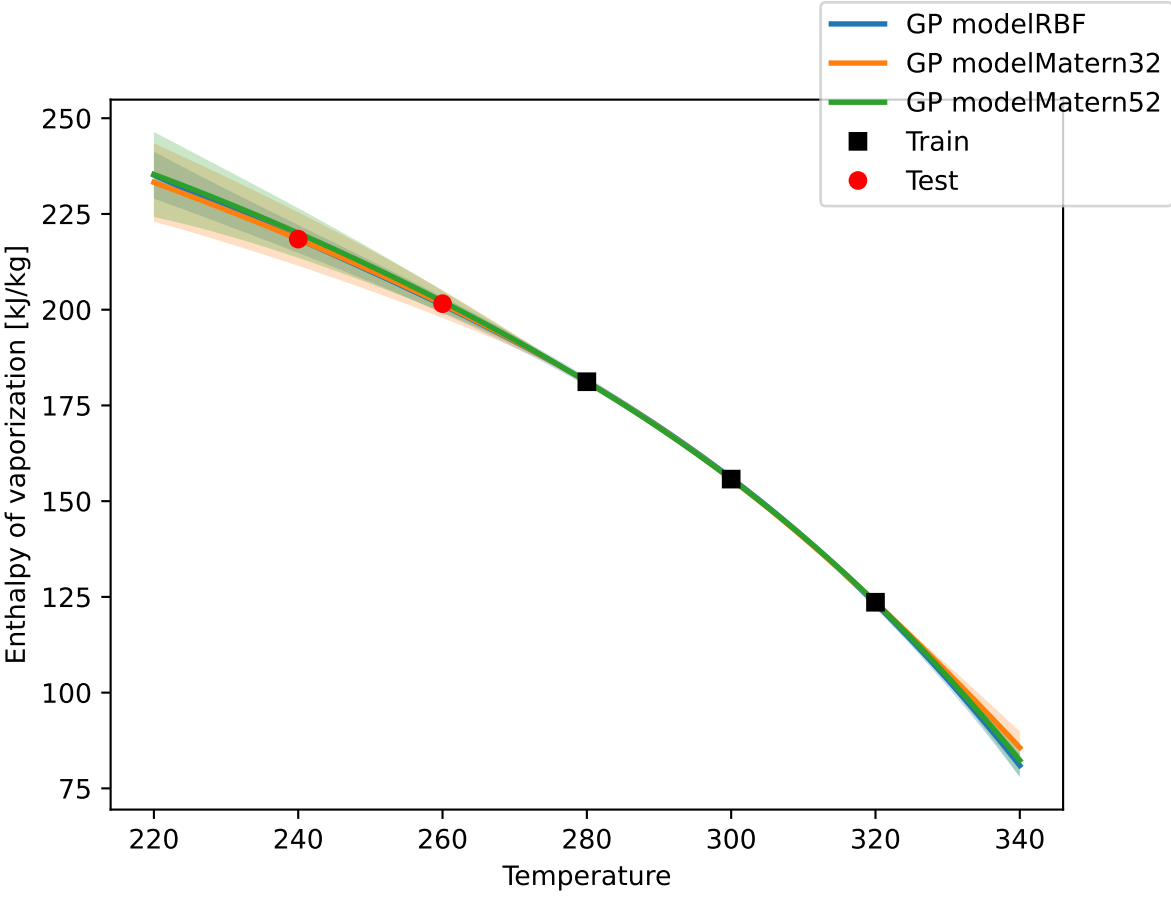
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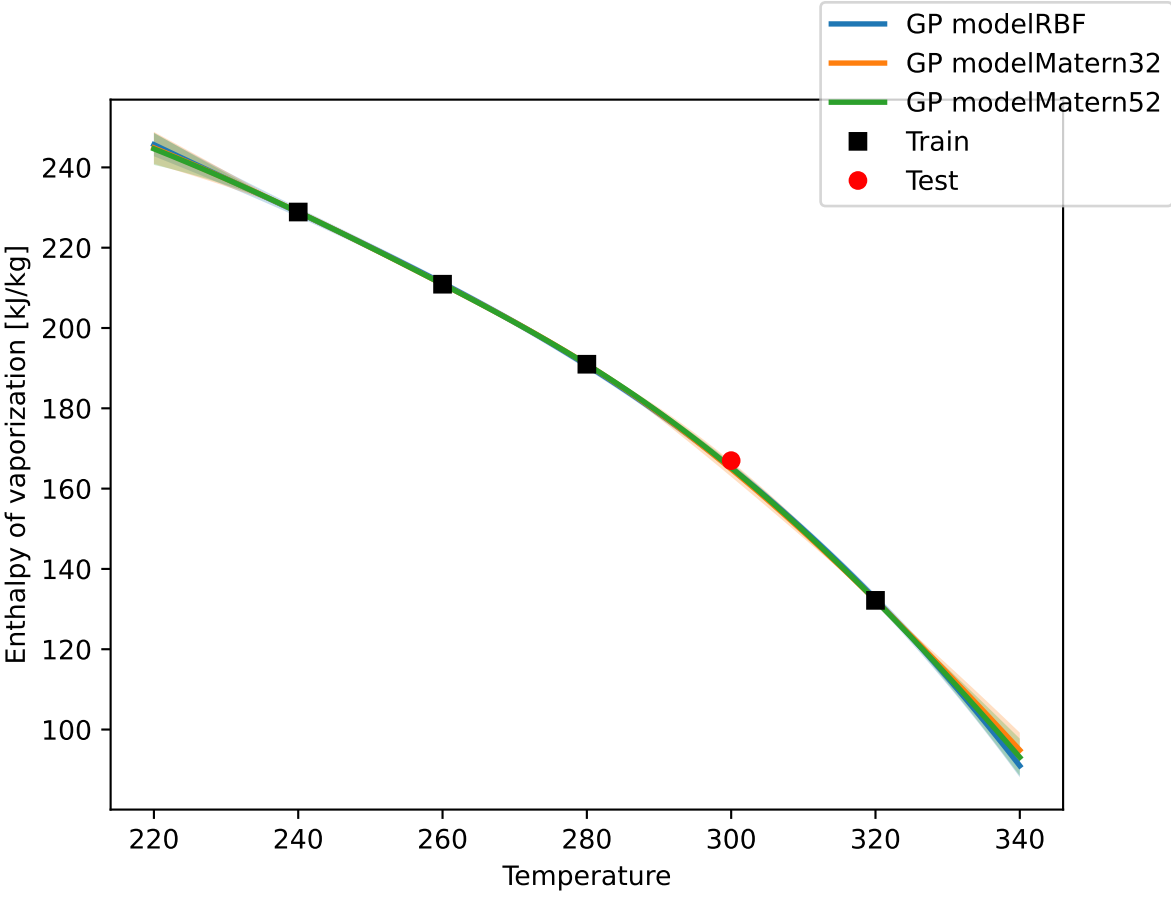
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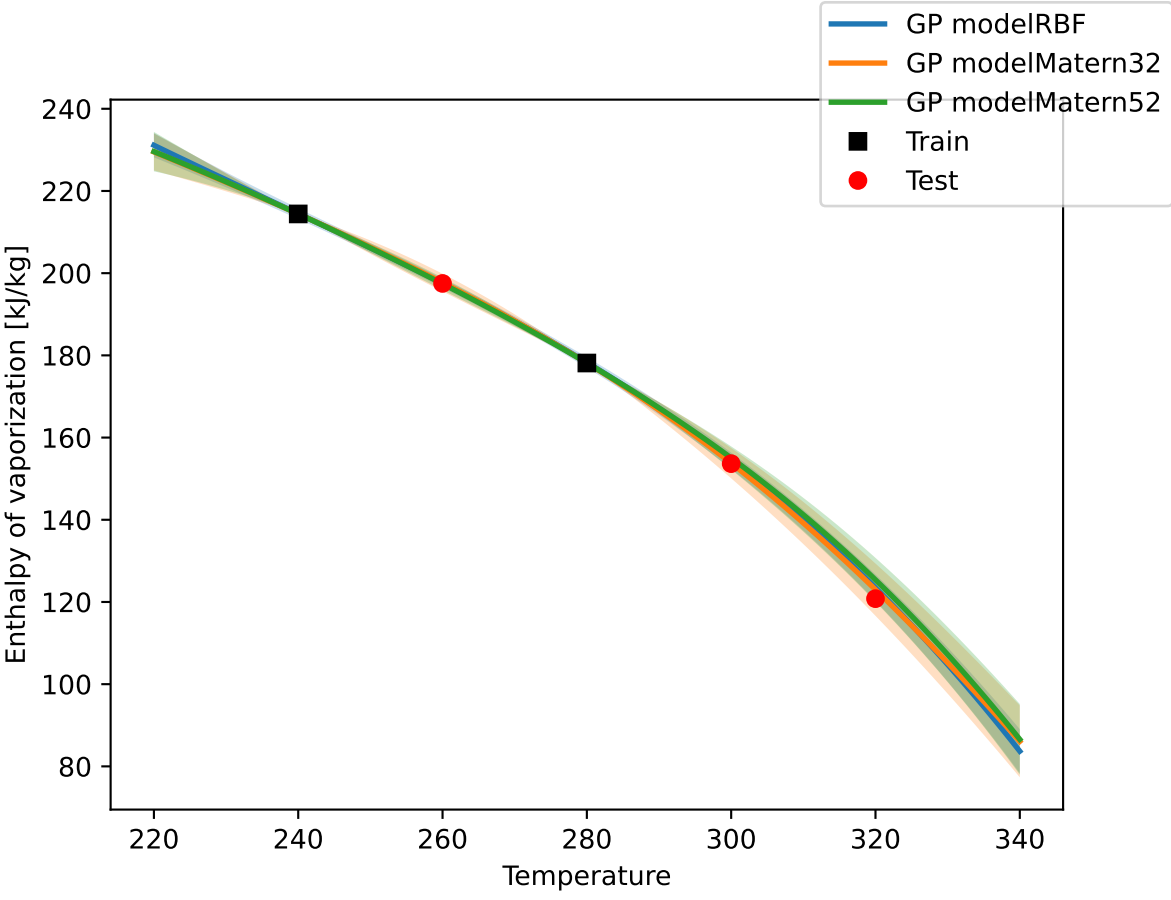
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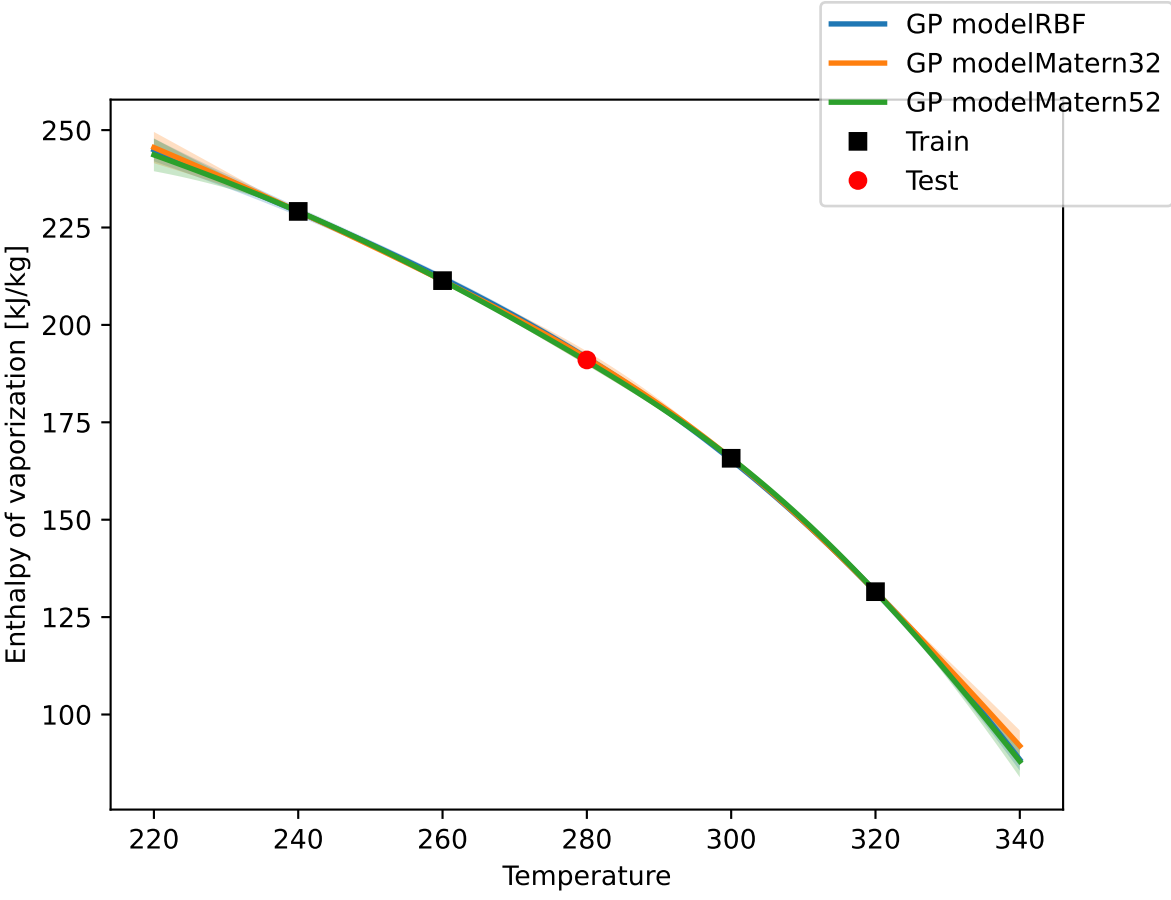
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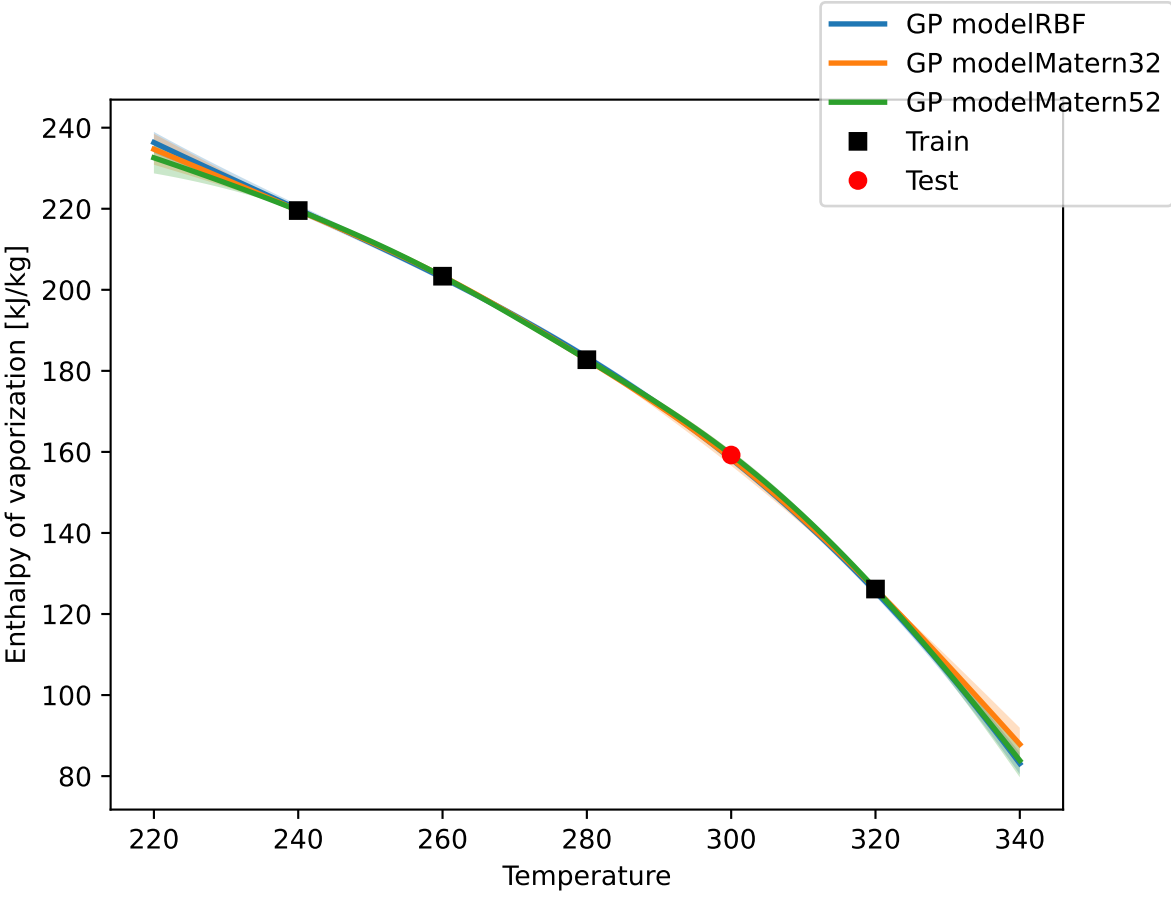
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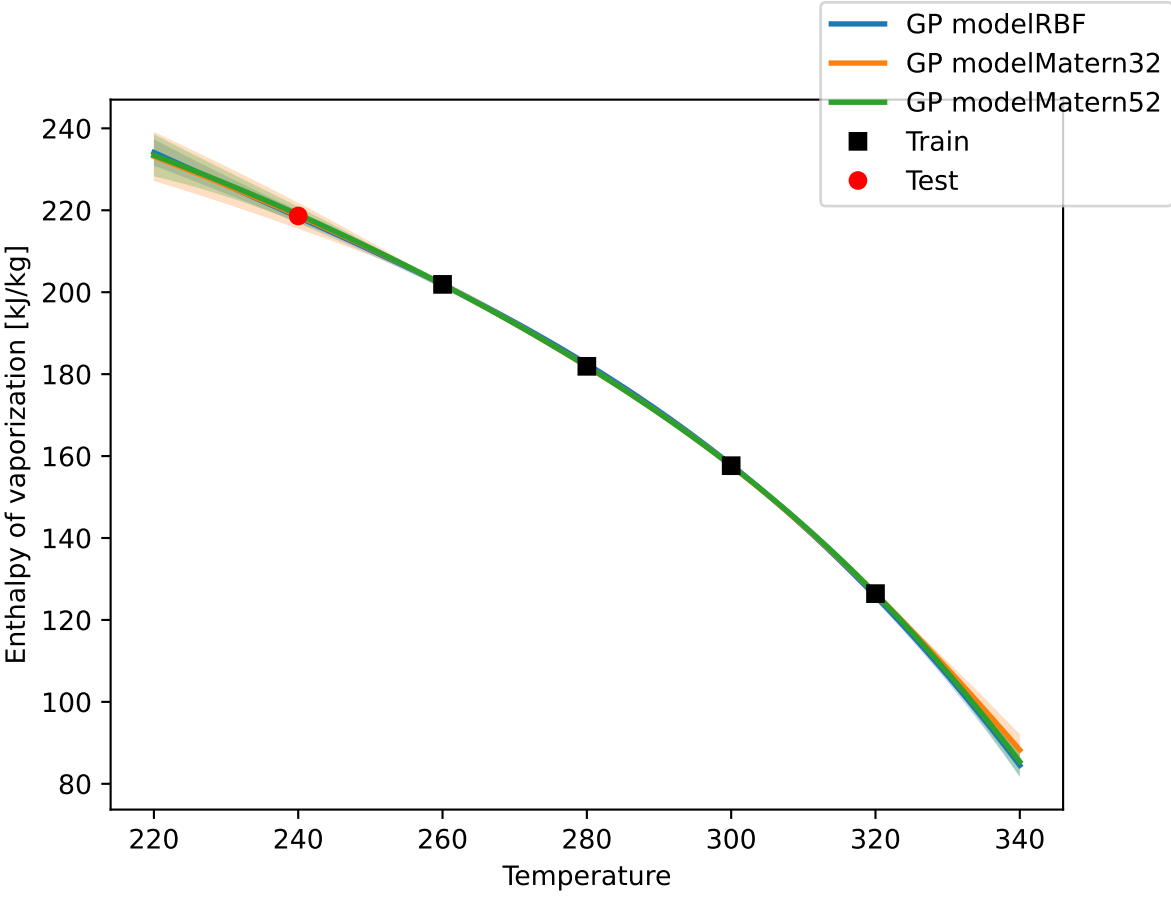
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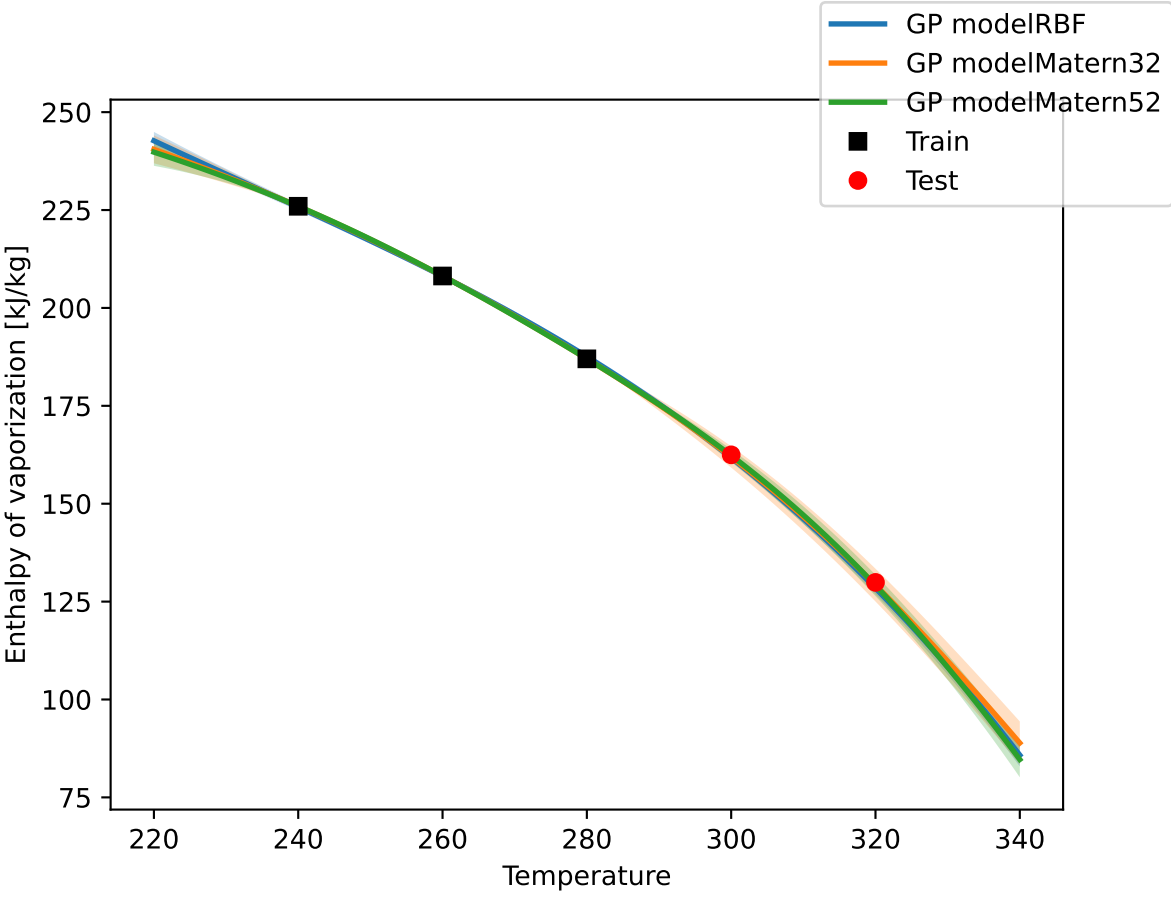
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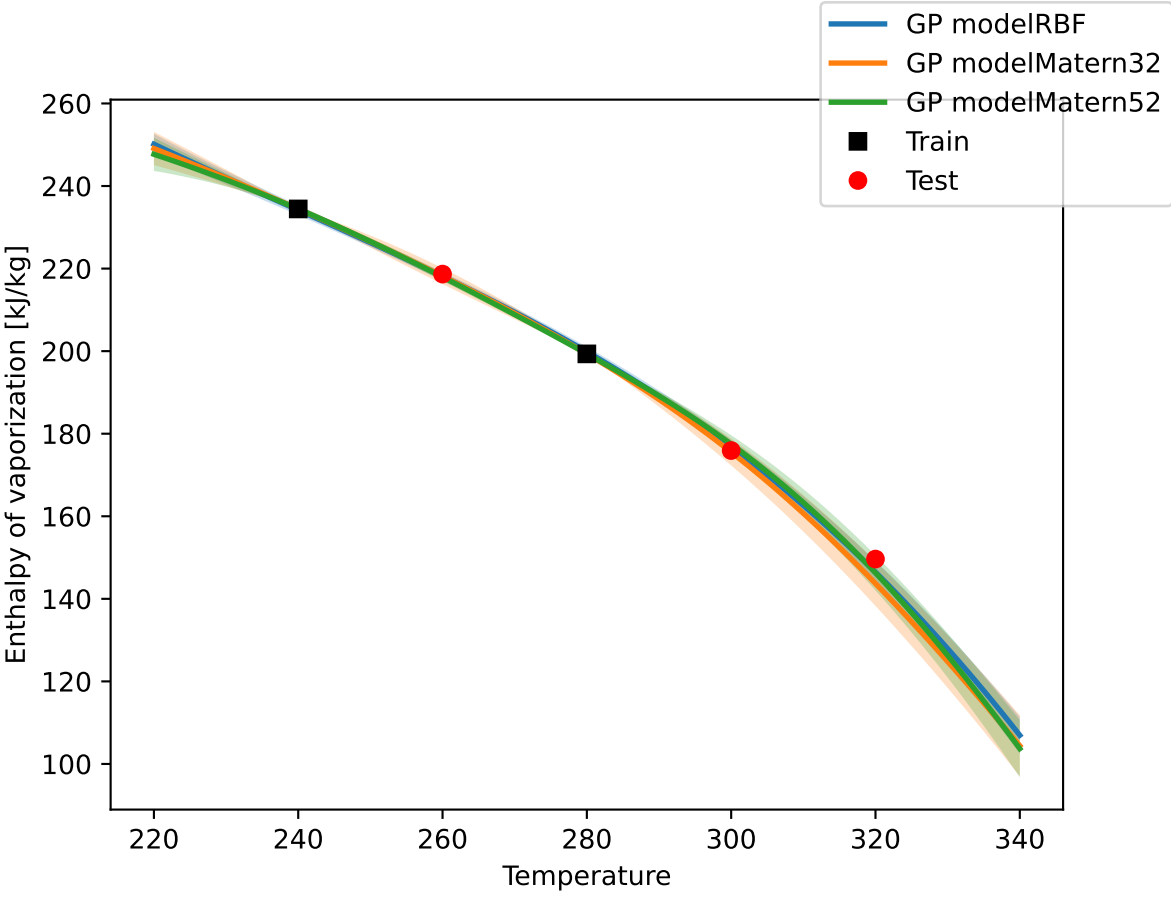
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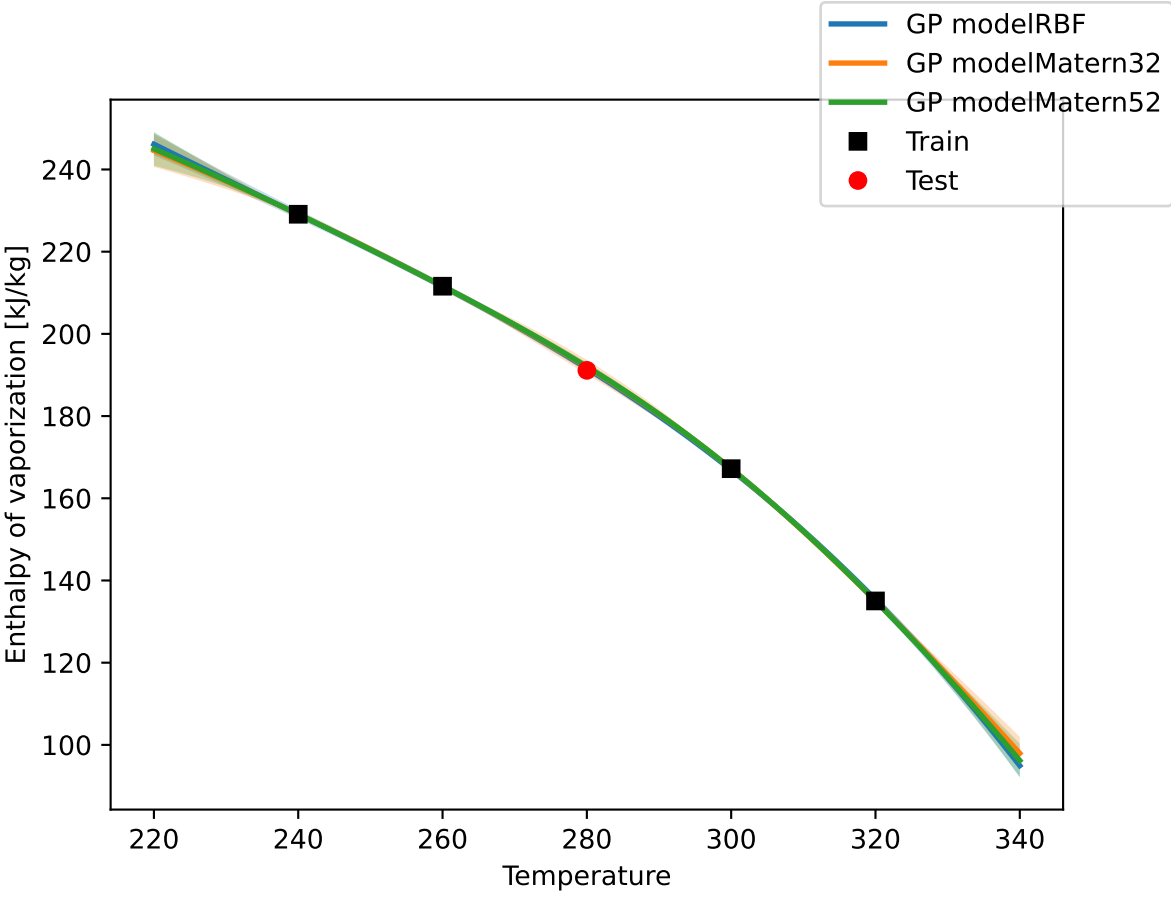
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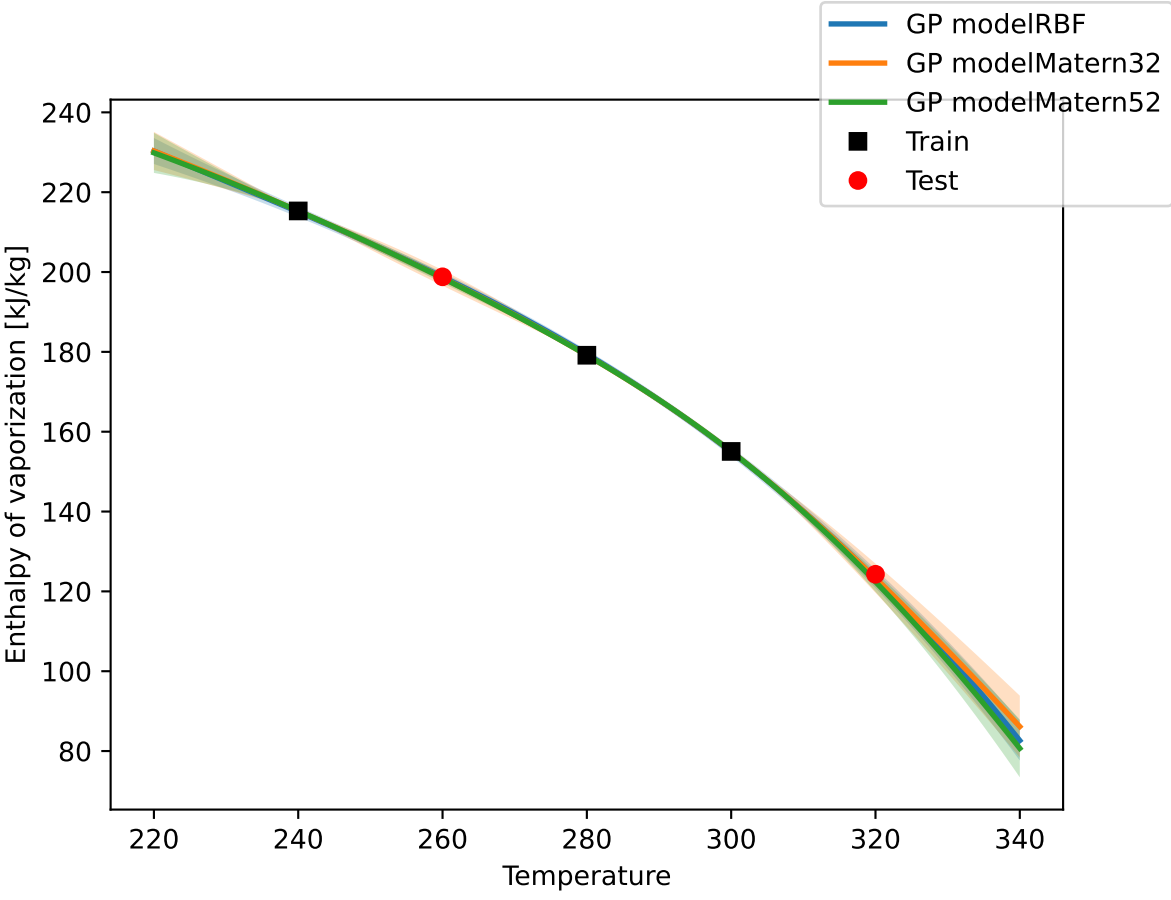
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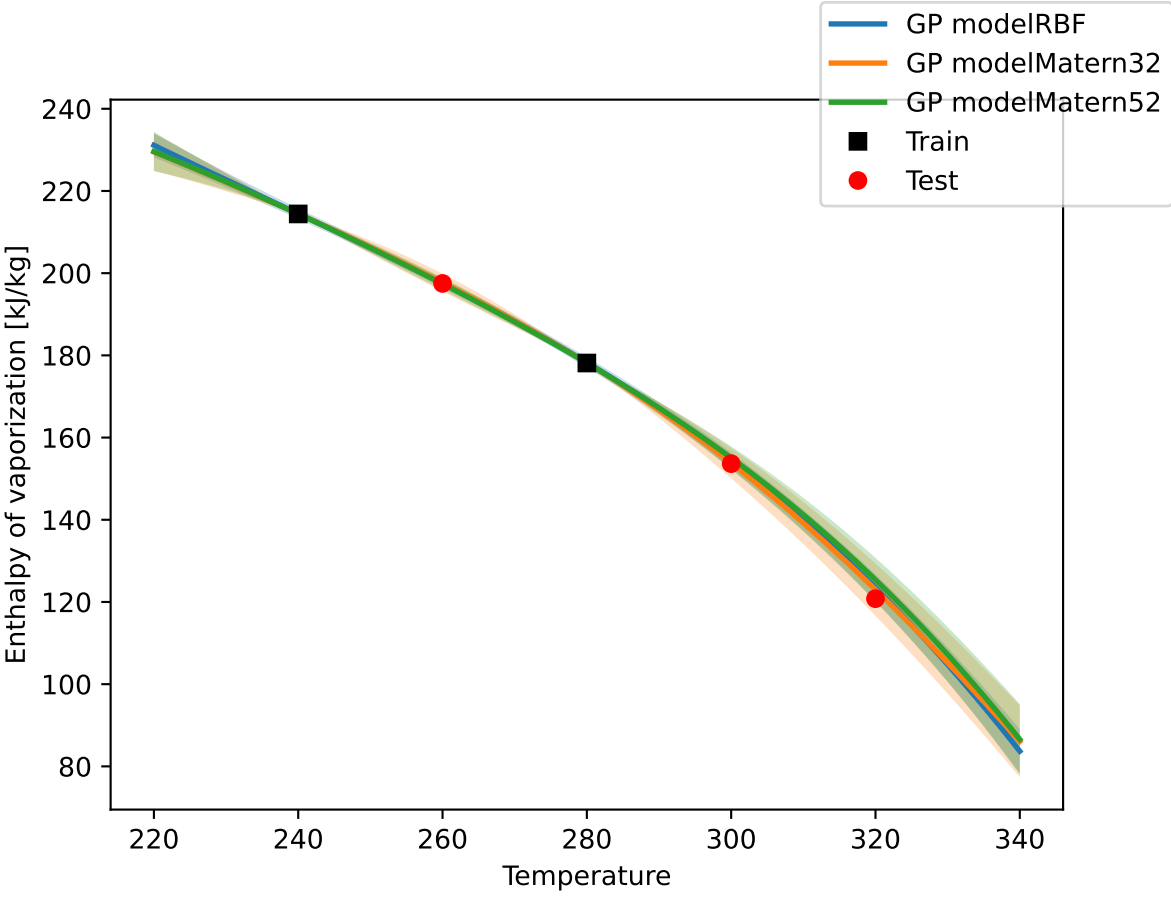
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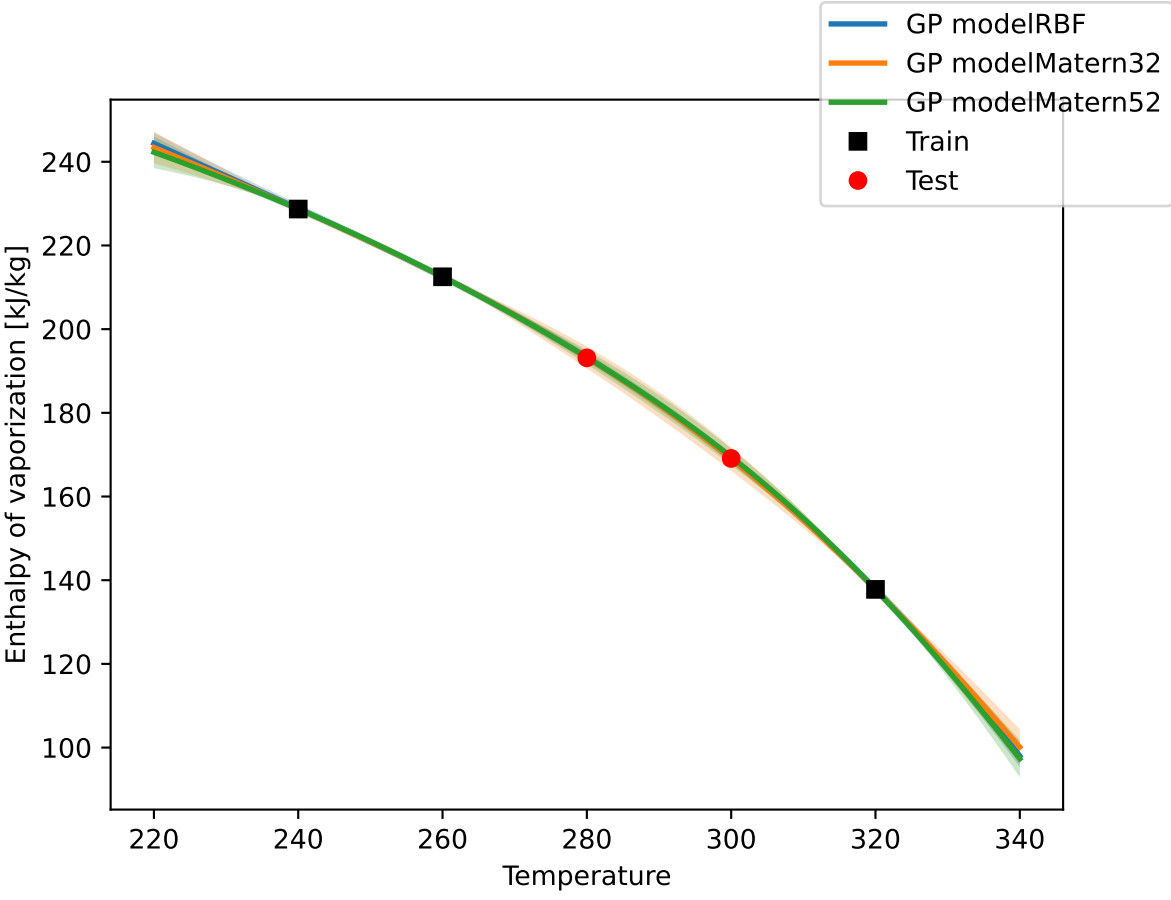
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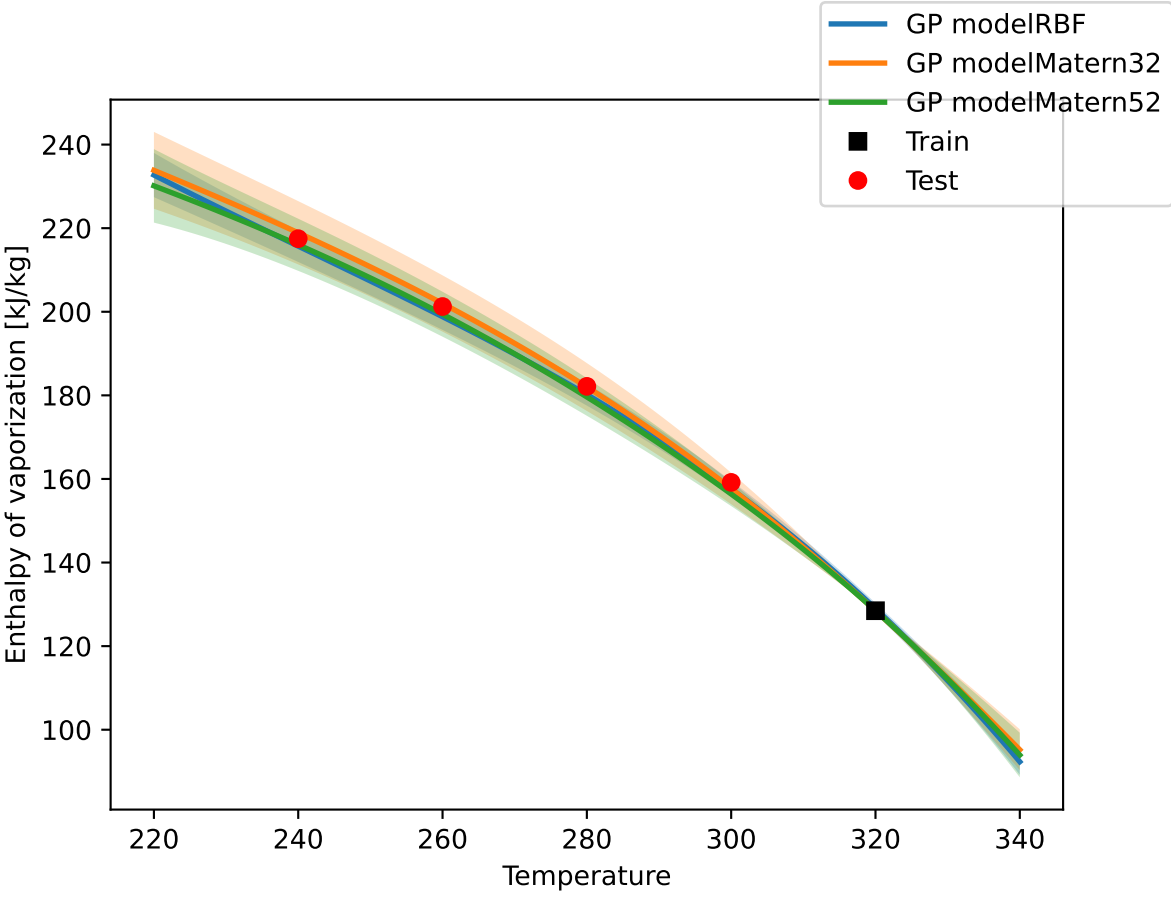
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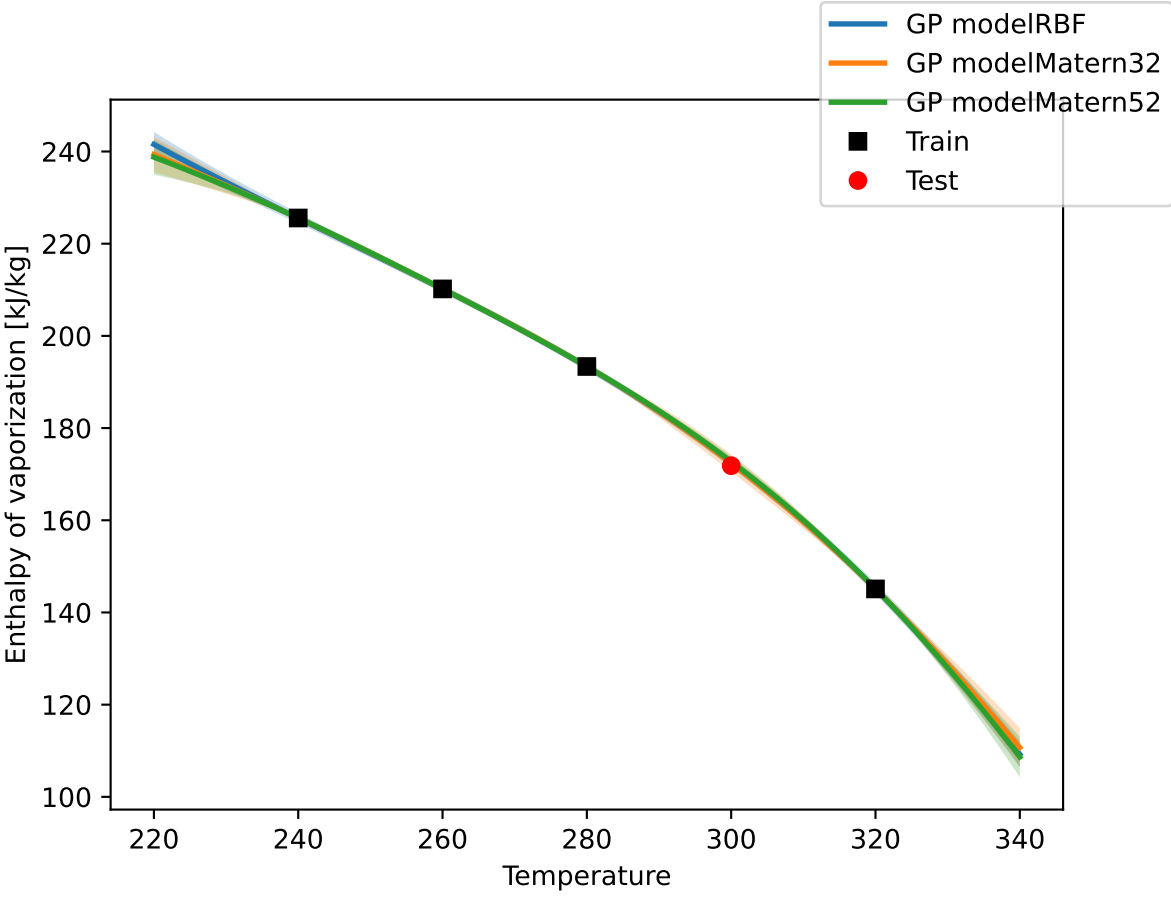
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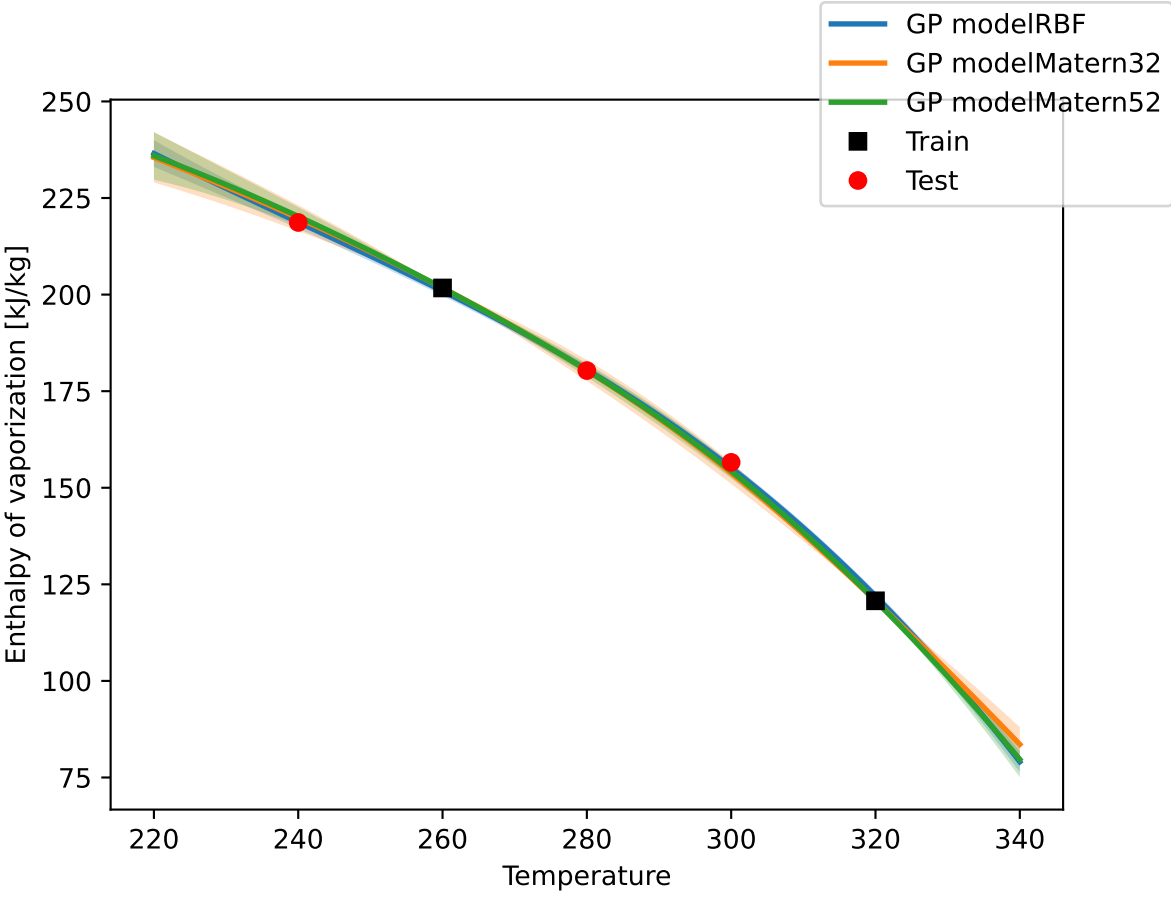
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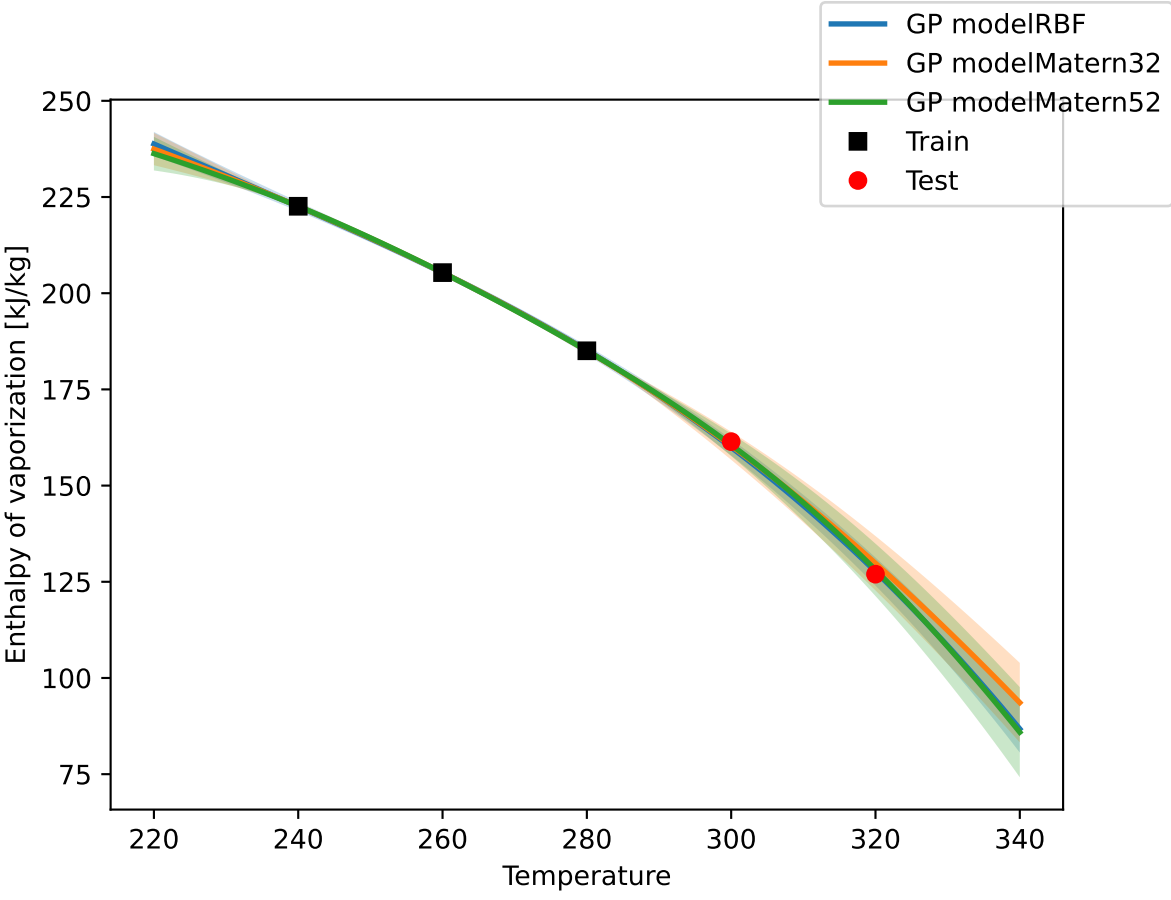
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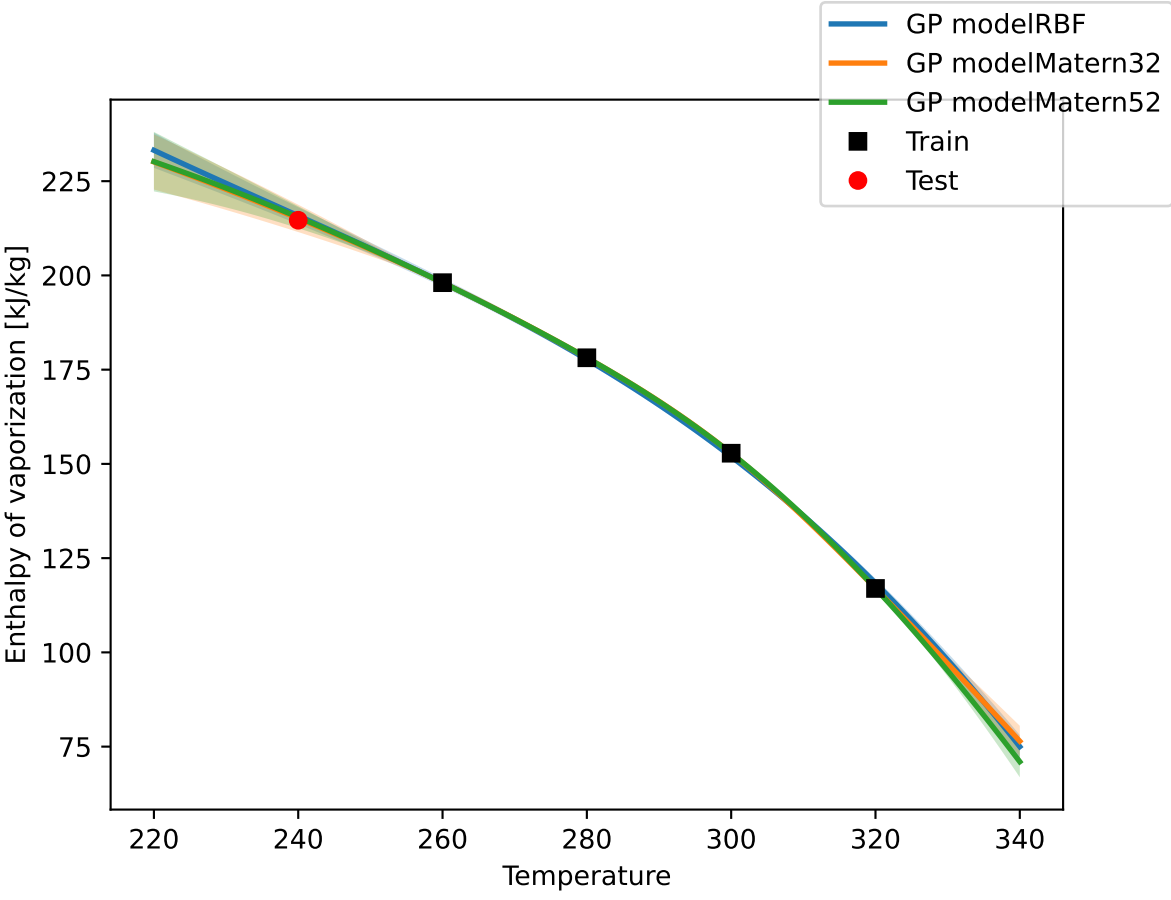
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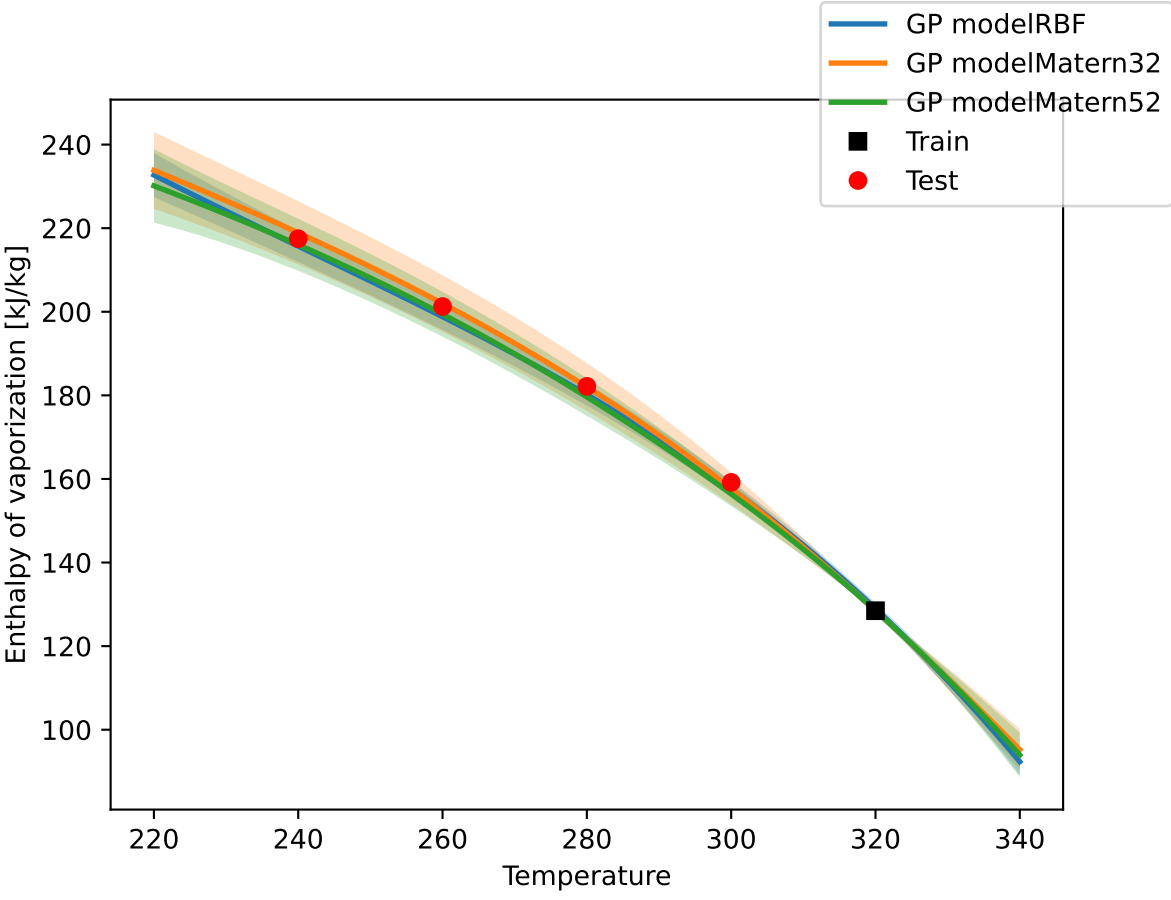
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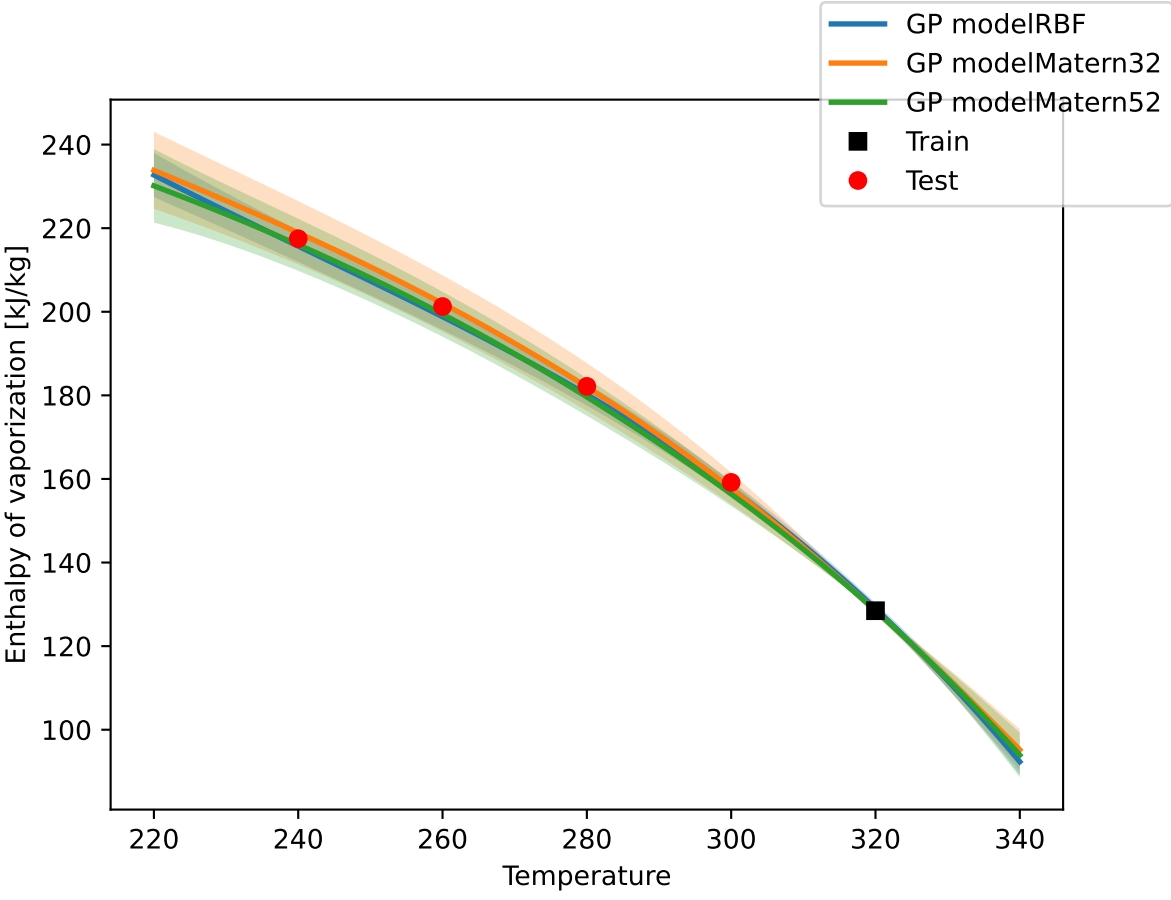
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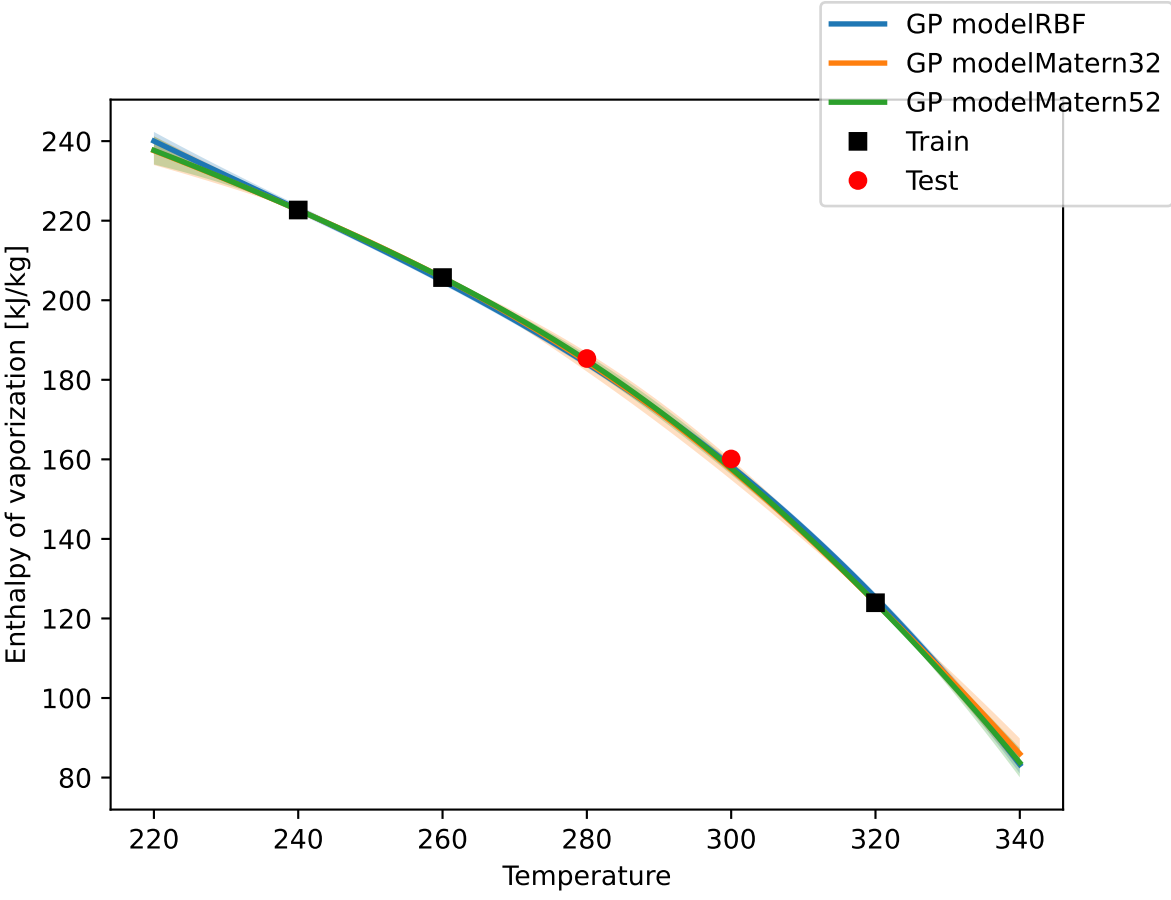
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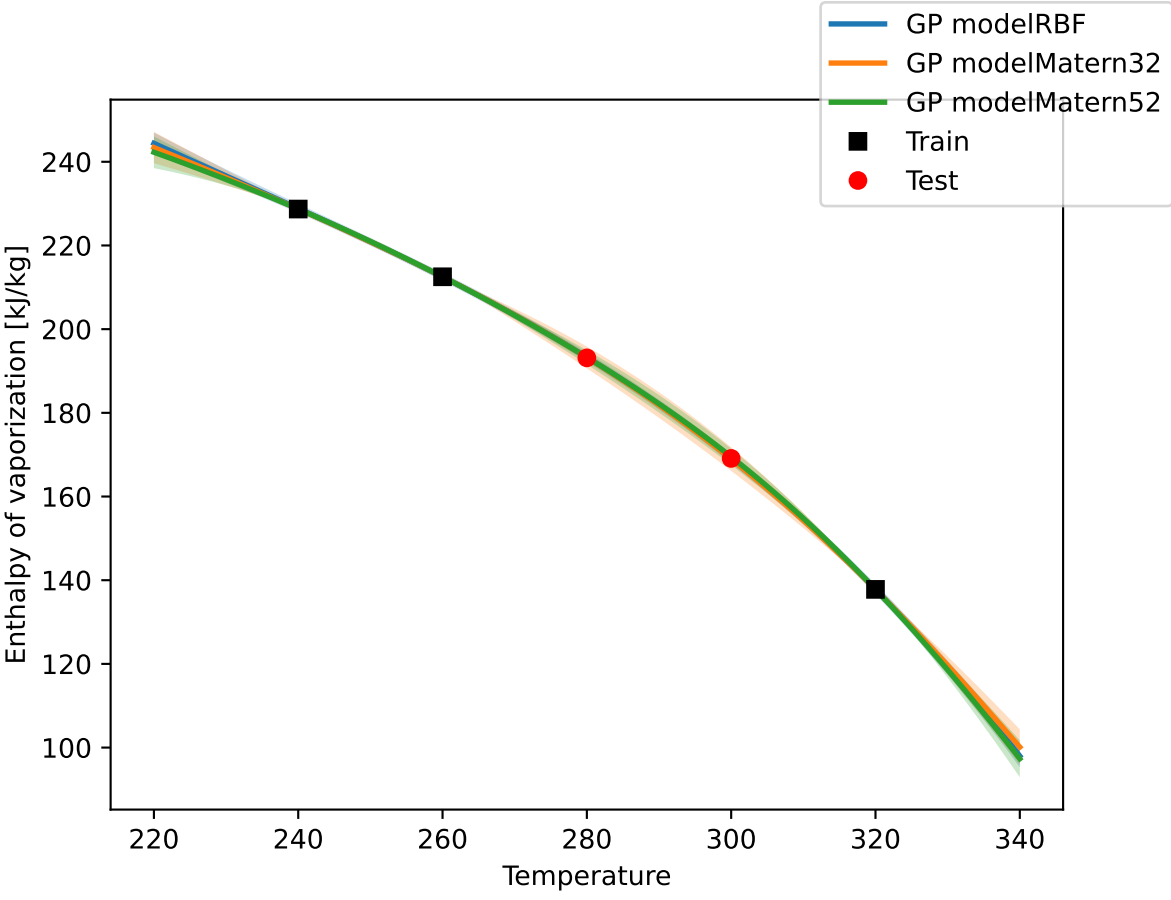
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GP modelMatern52
Train
Test
Enthalpy of vaporization [kJ/kg]
Temperature
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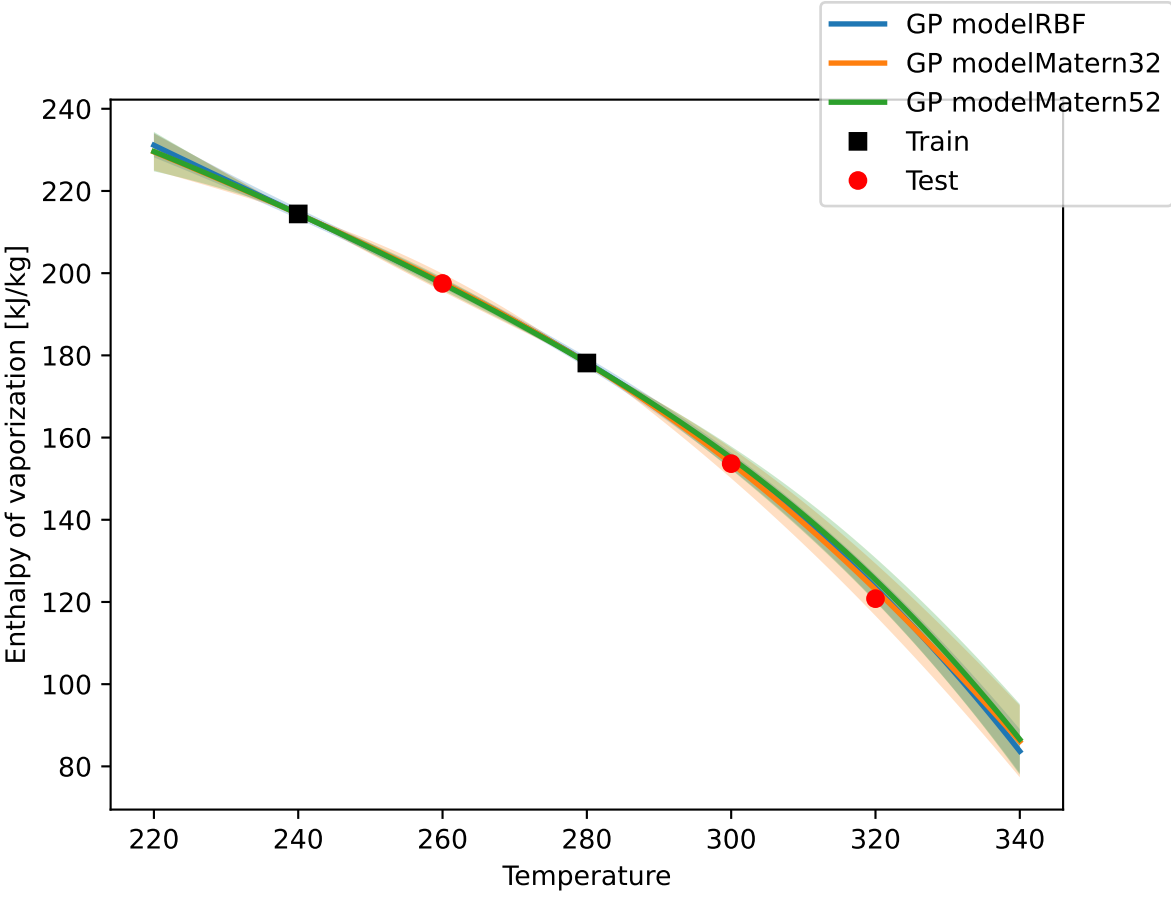
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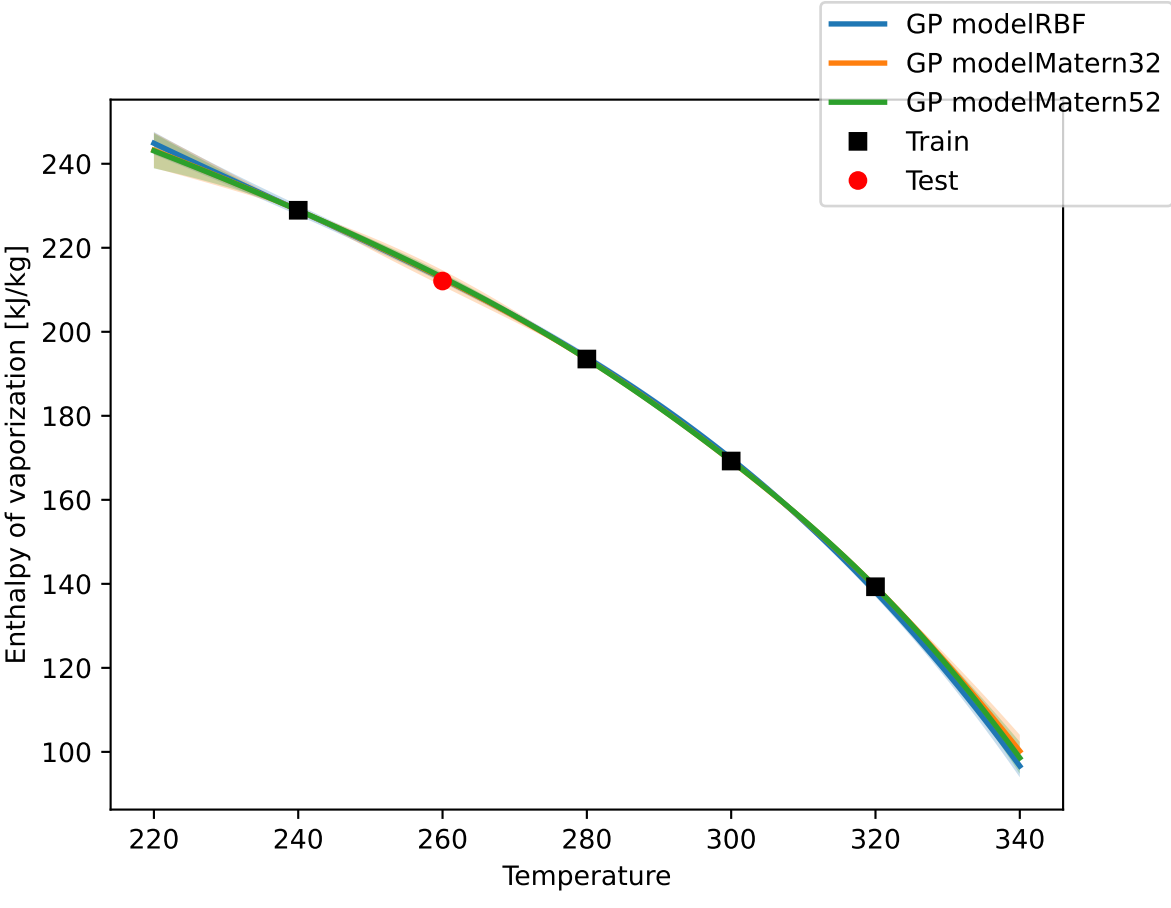
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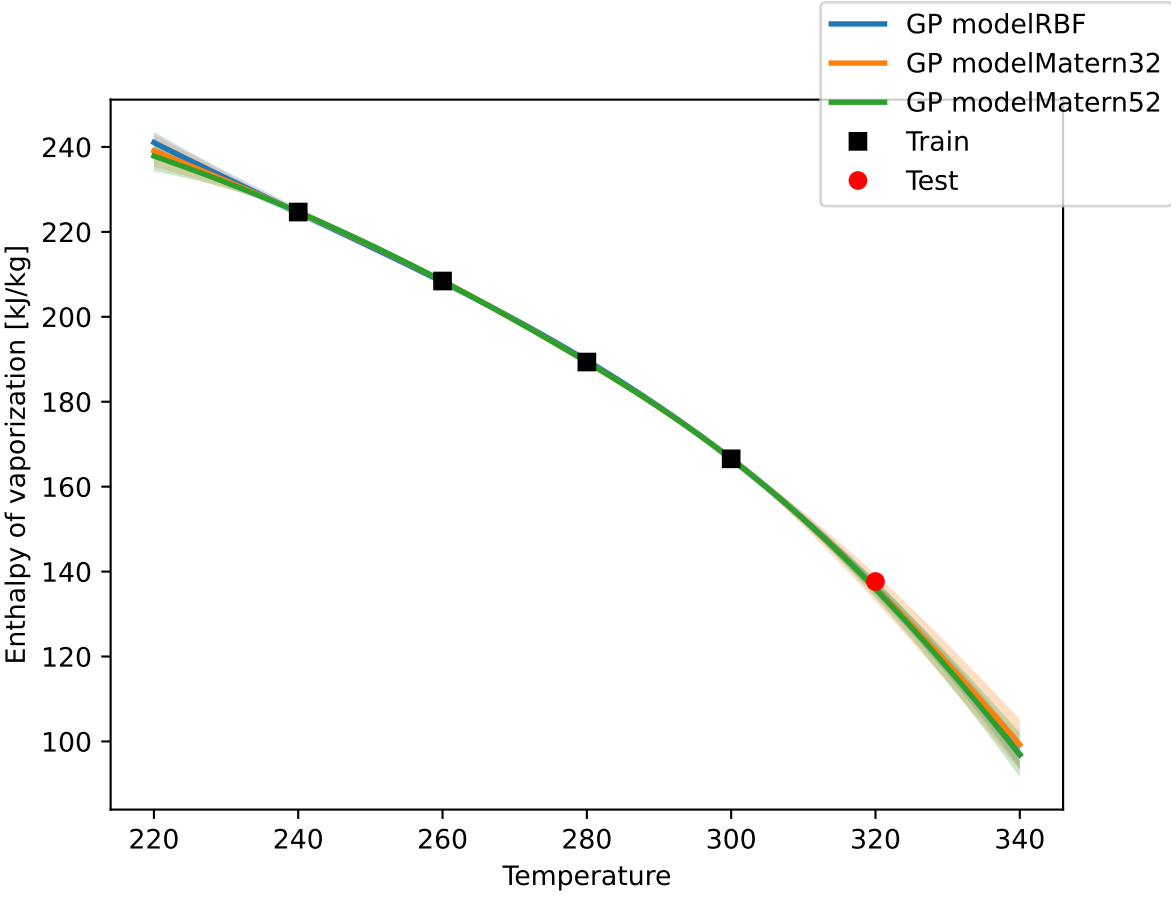
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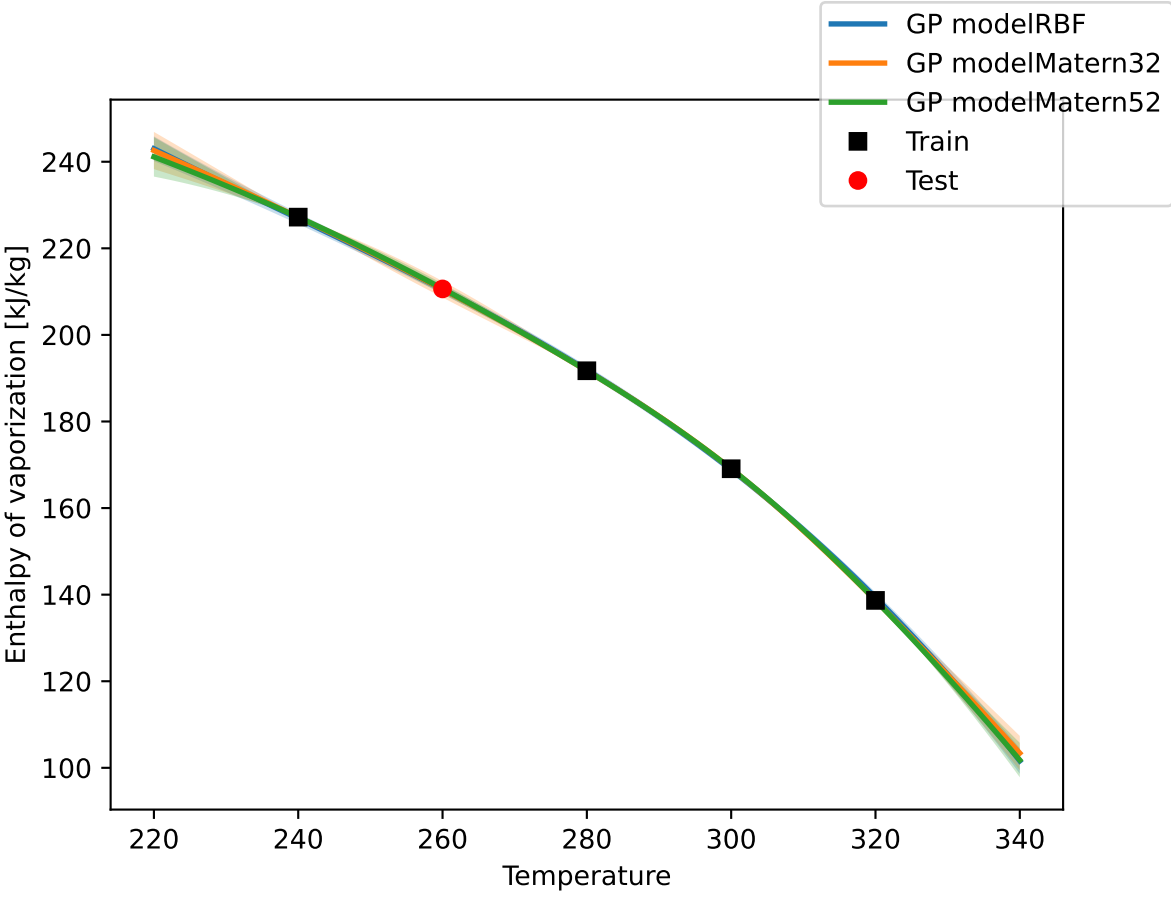
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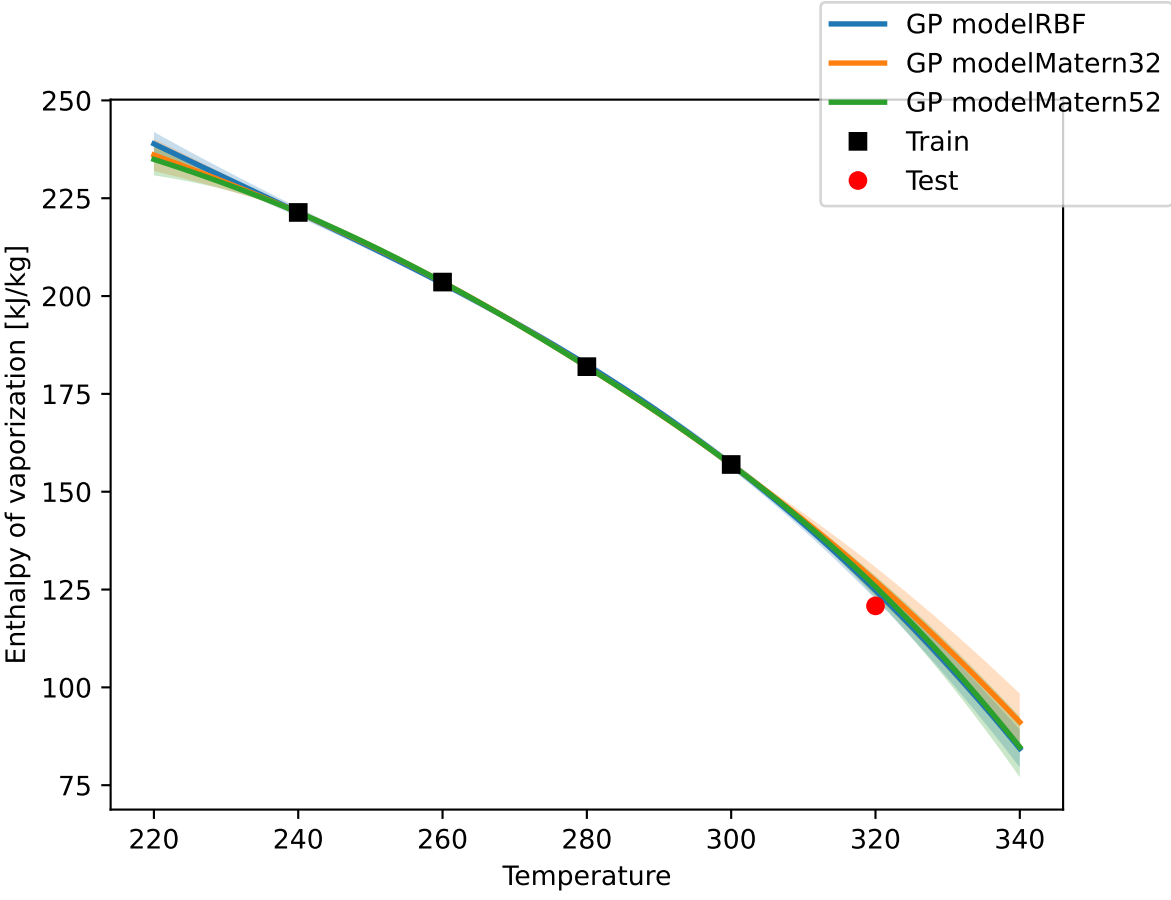
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Enthalpy of vaporization [kJ/kg]
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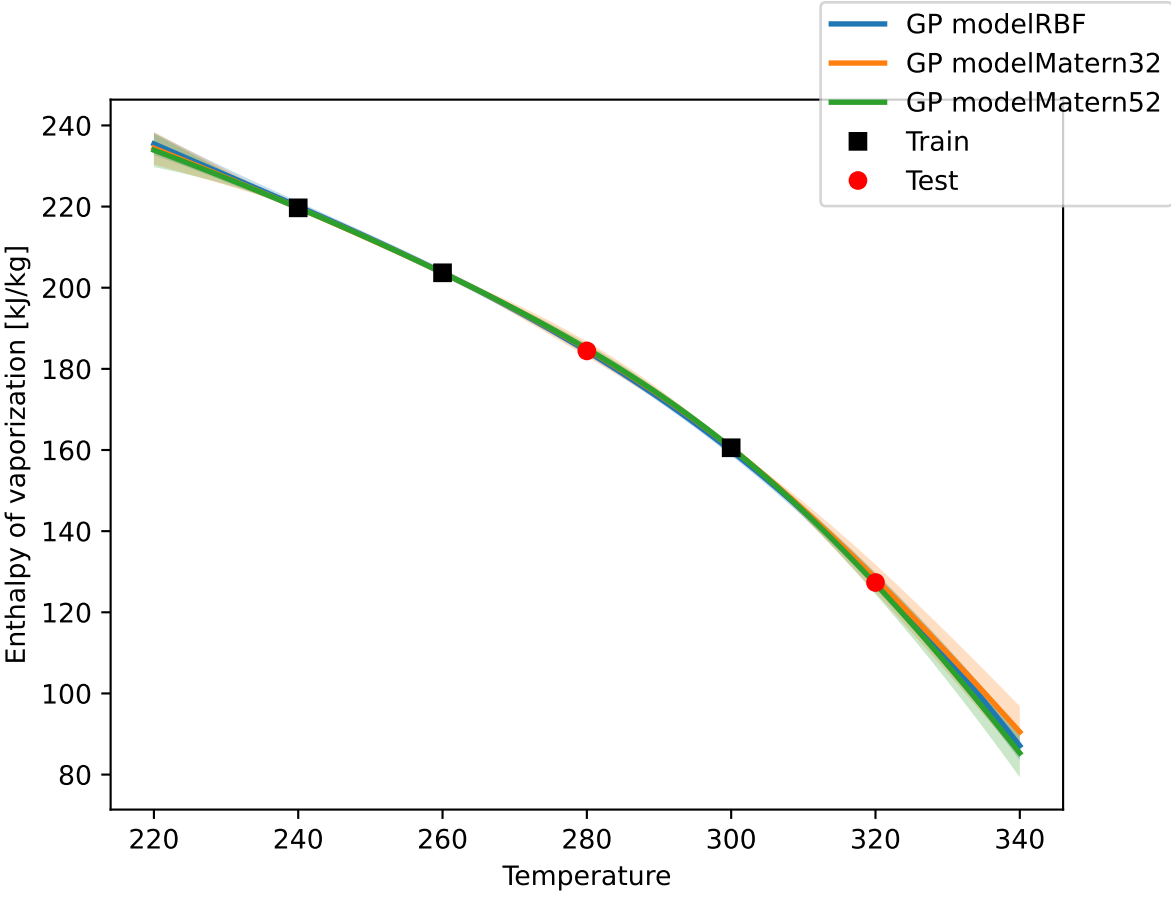
Temperature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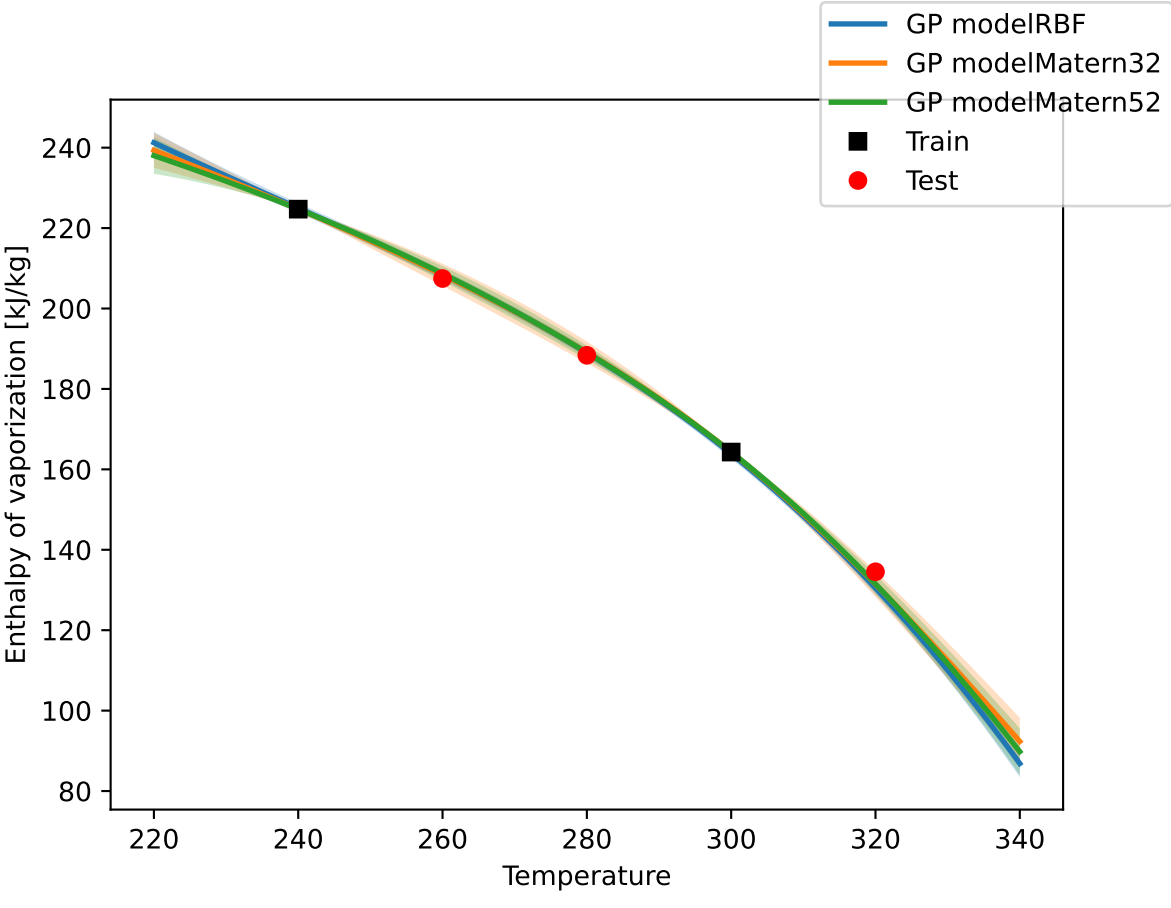
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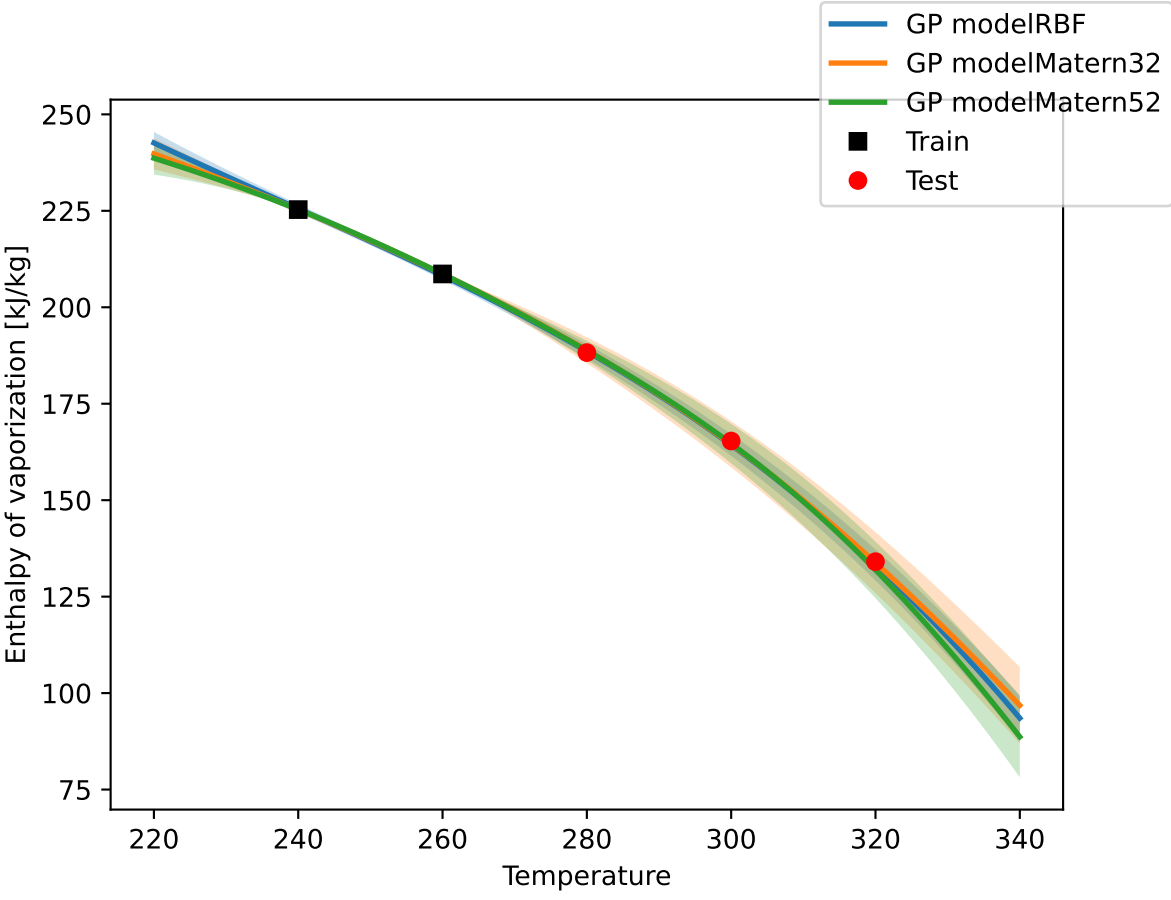
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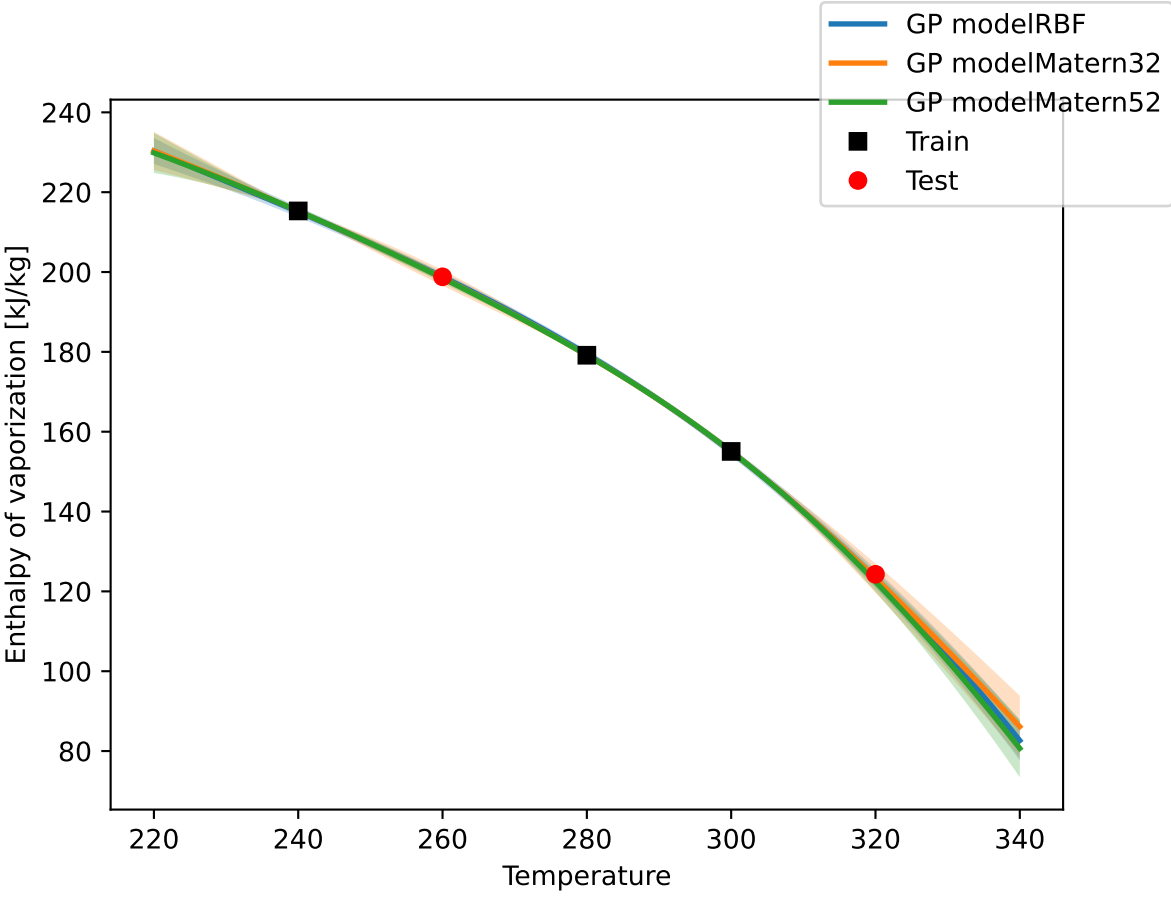
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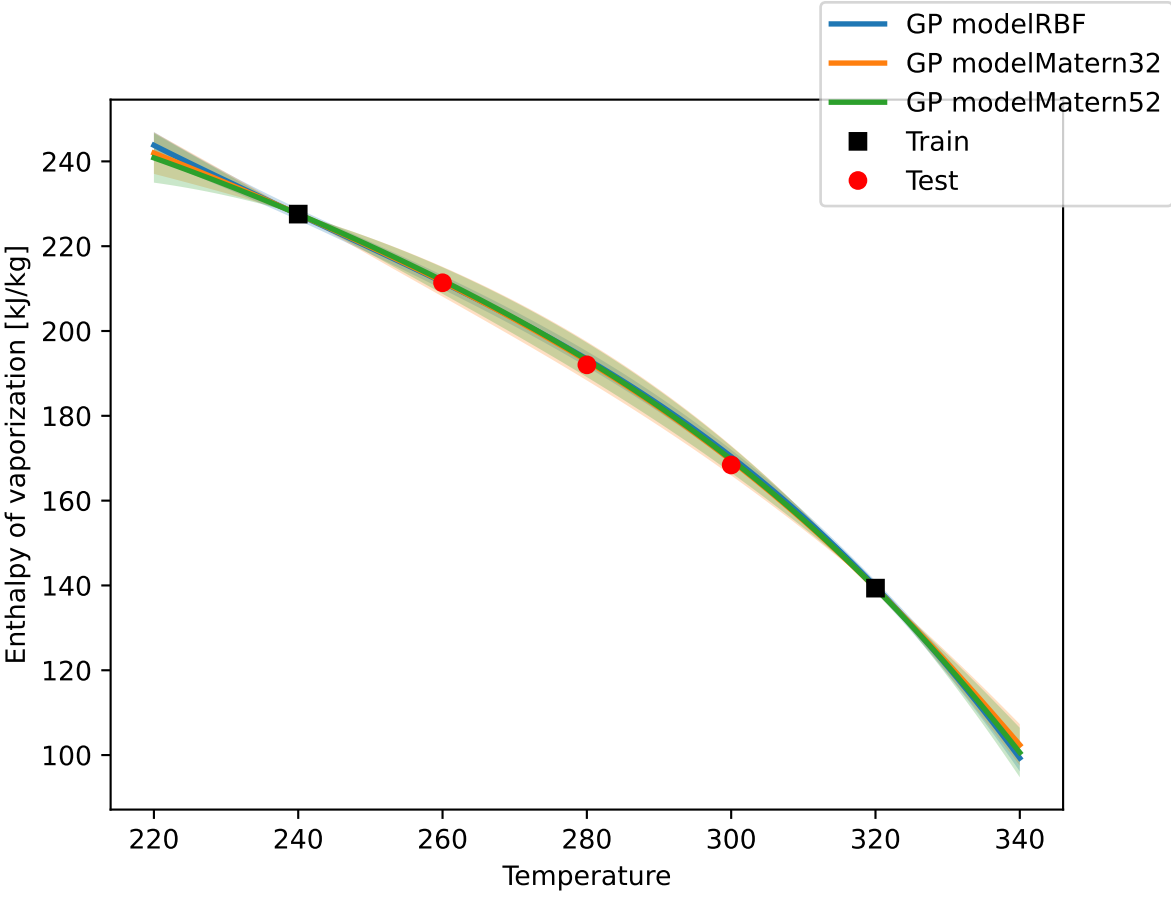
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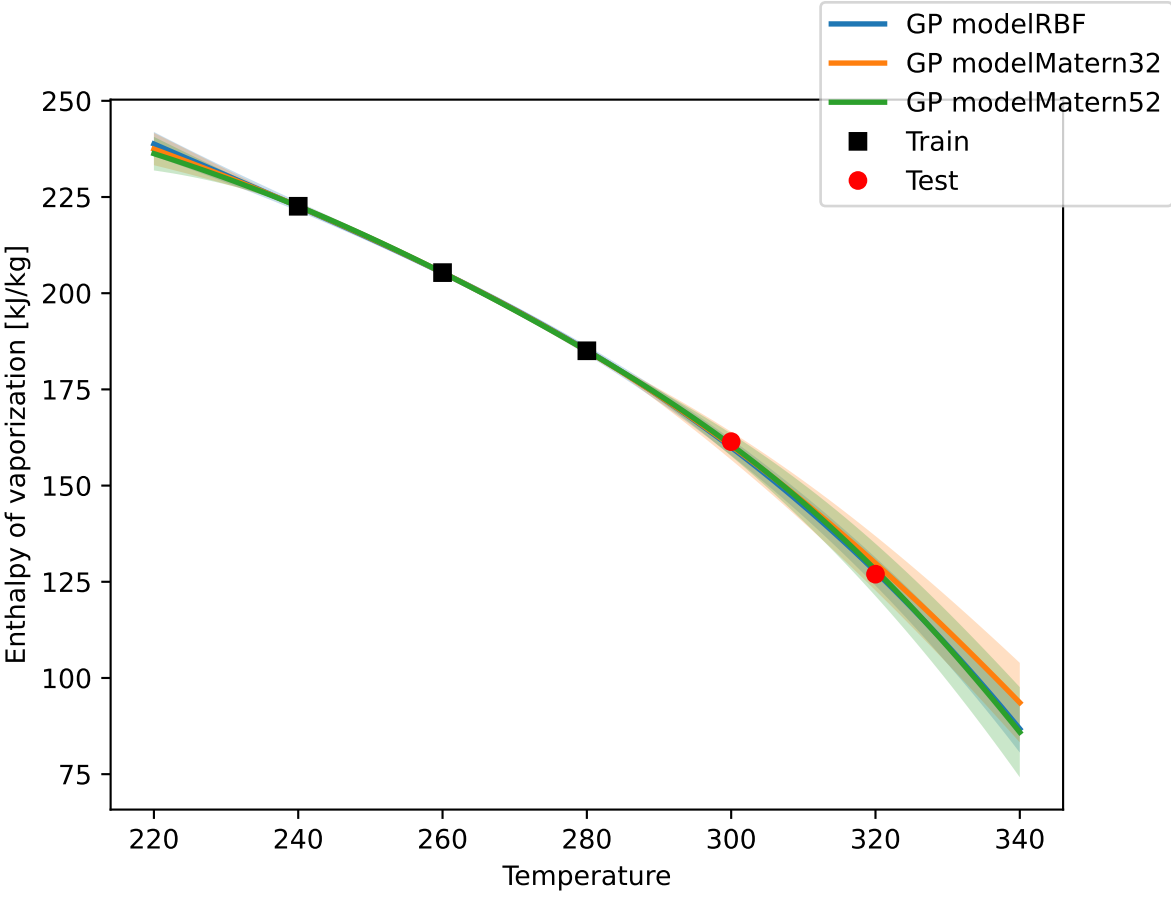
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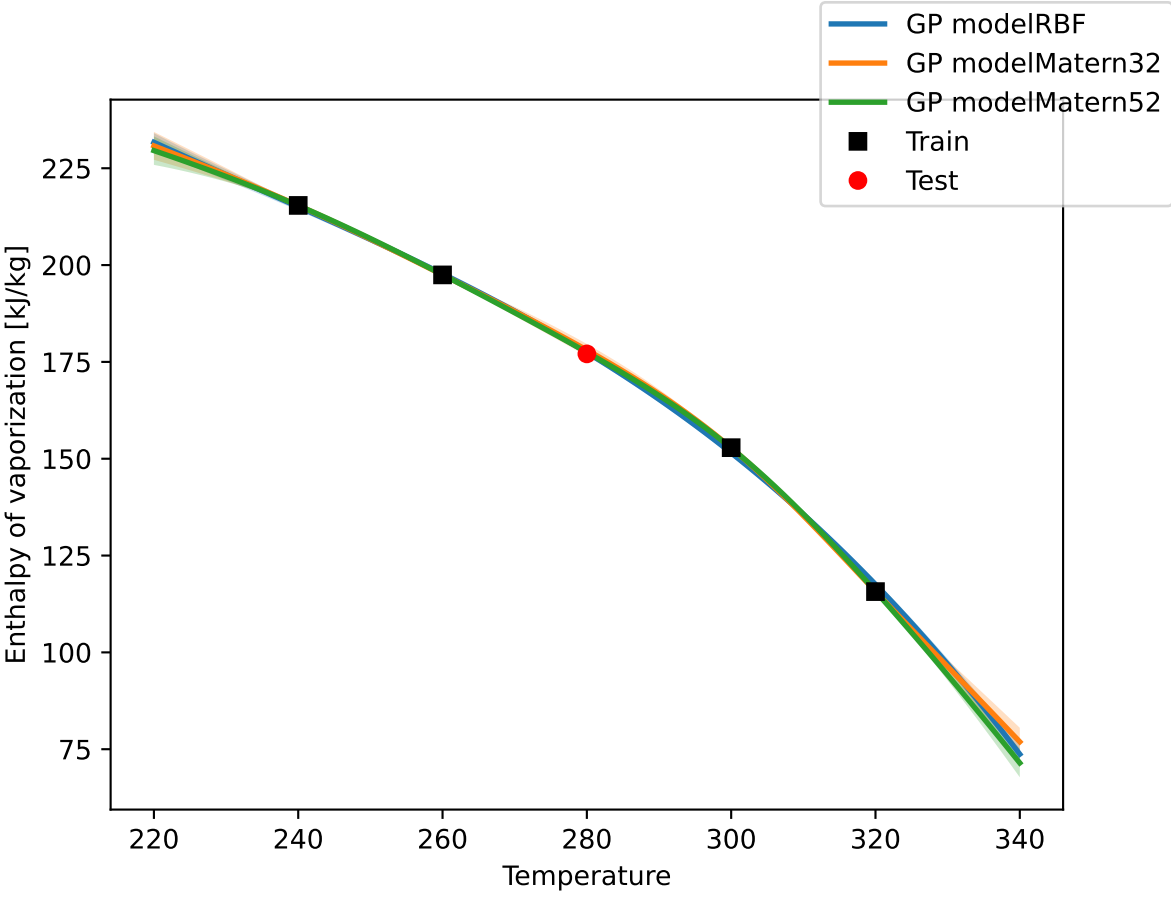
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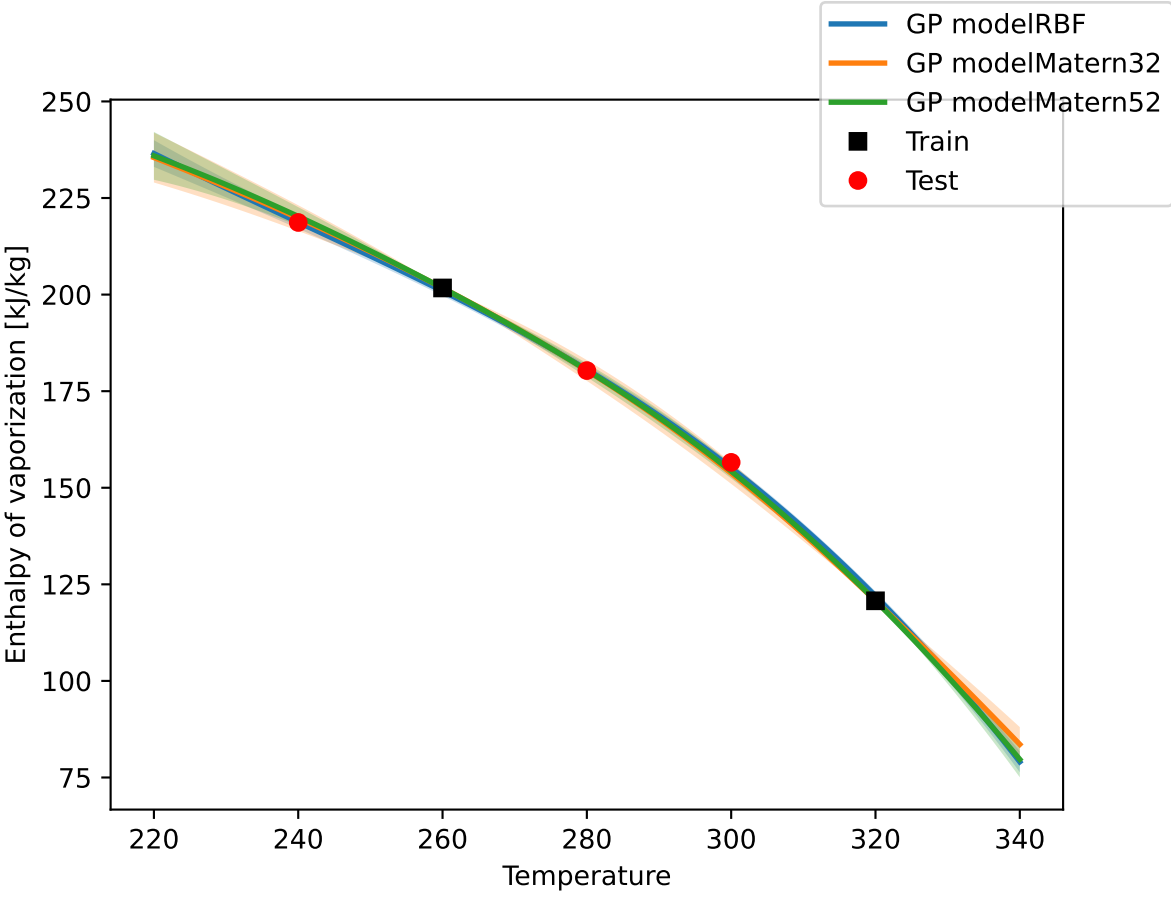
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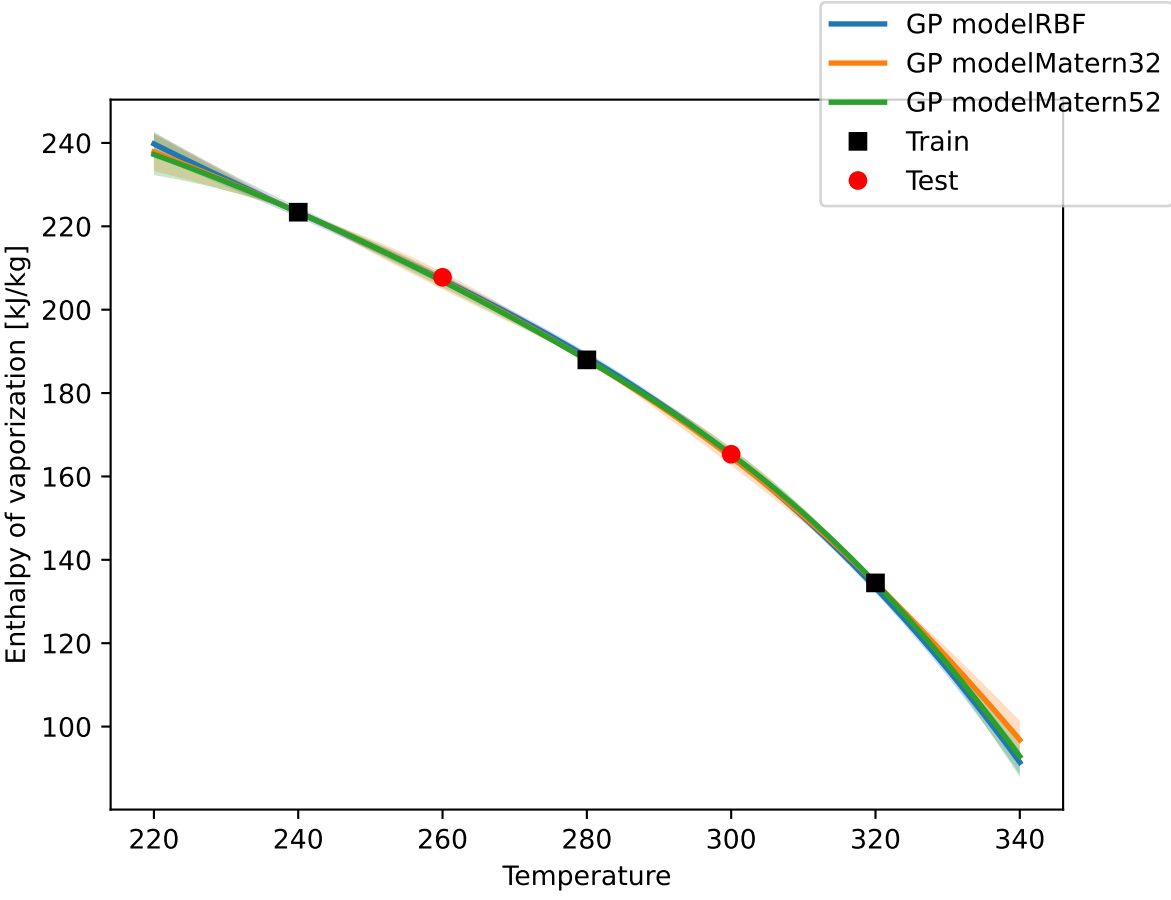
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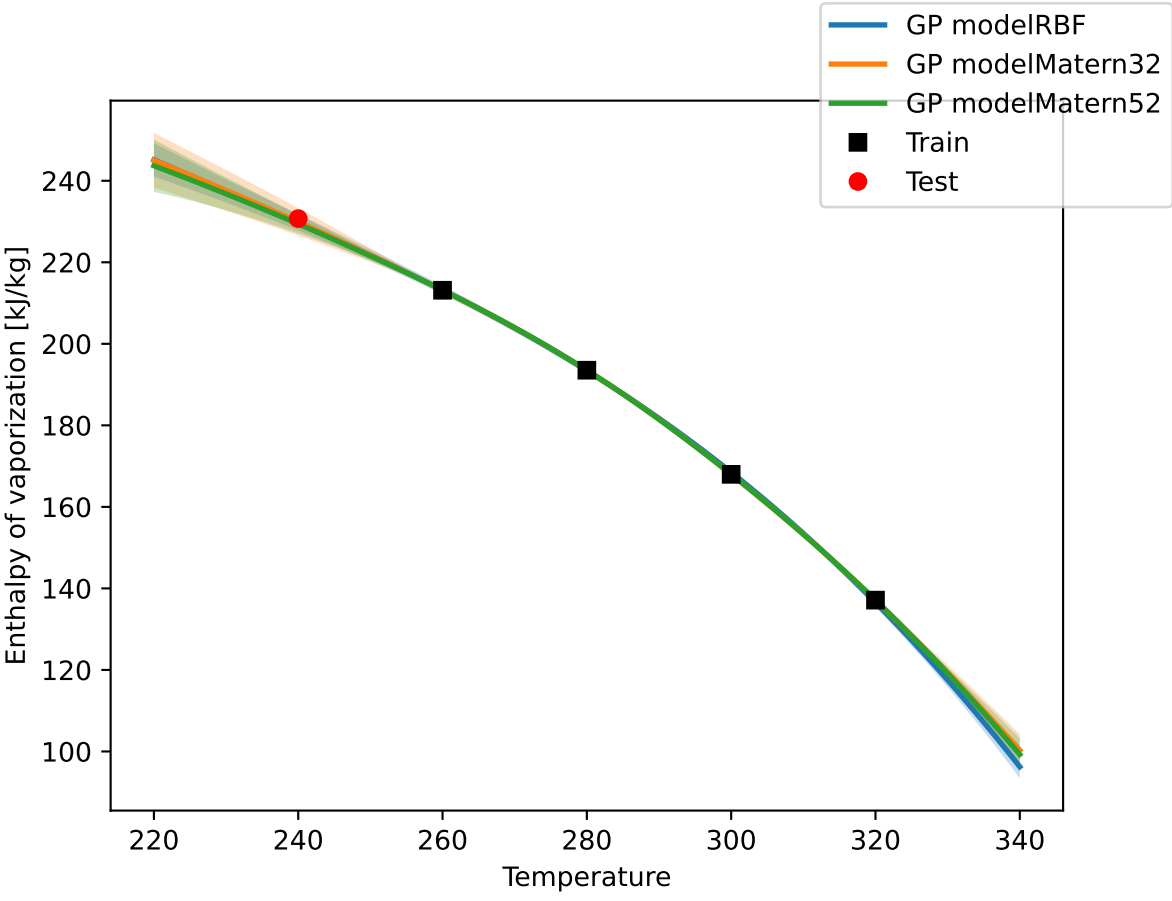
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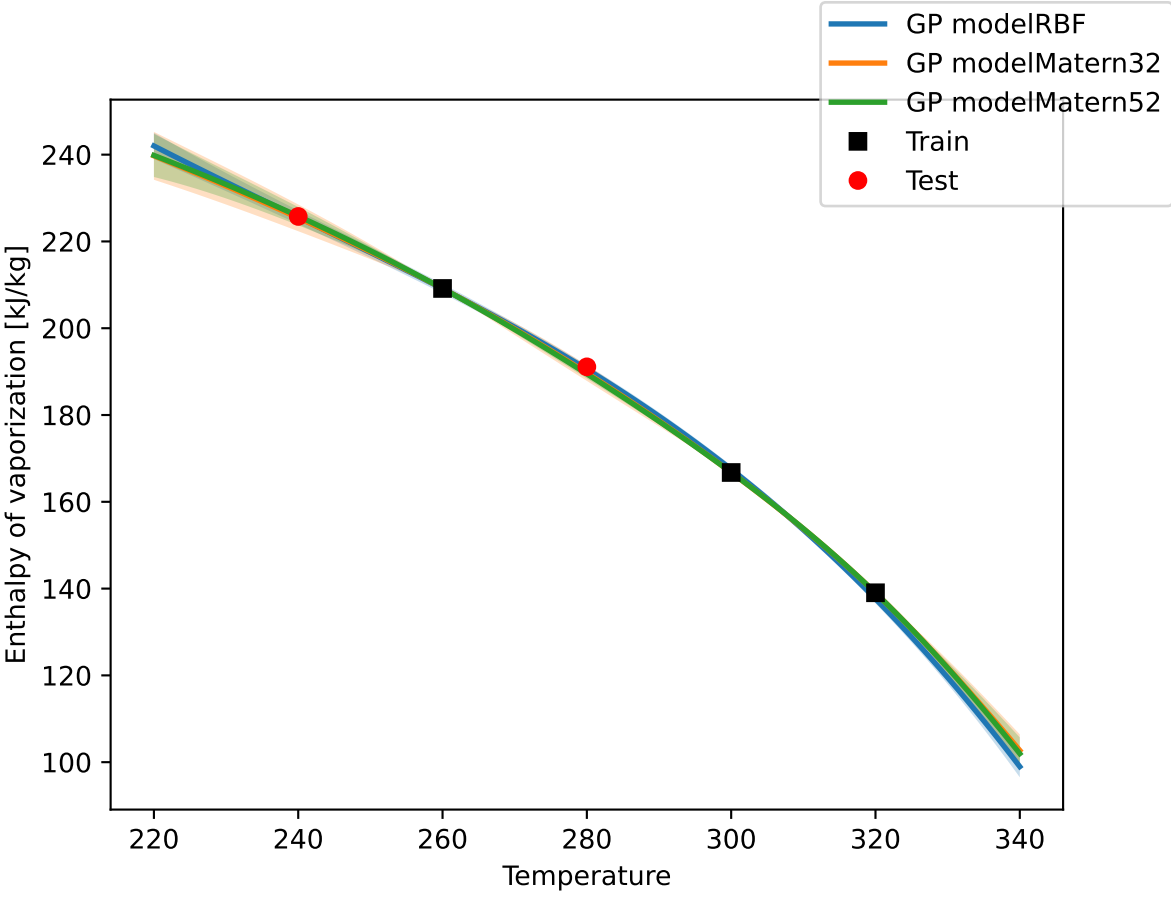
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