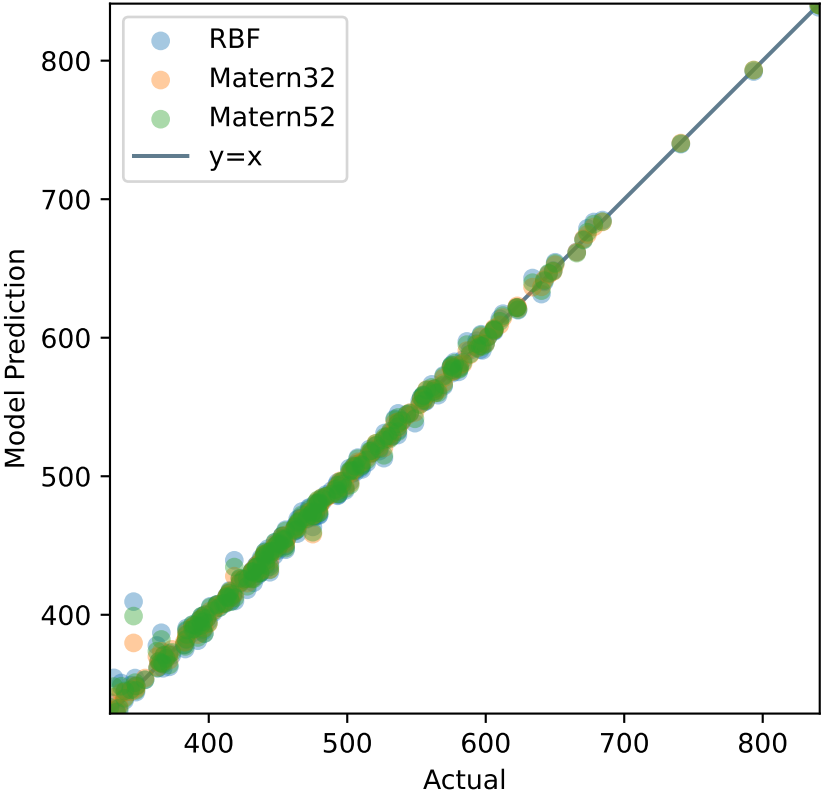
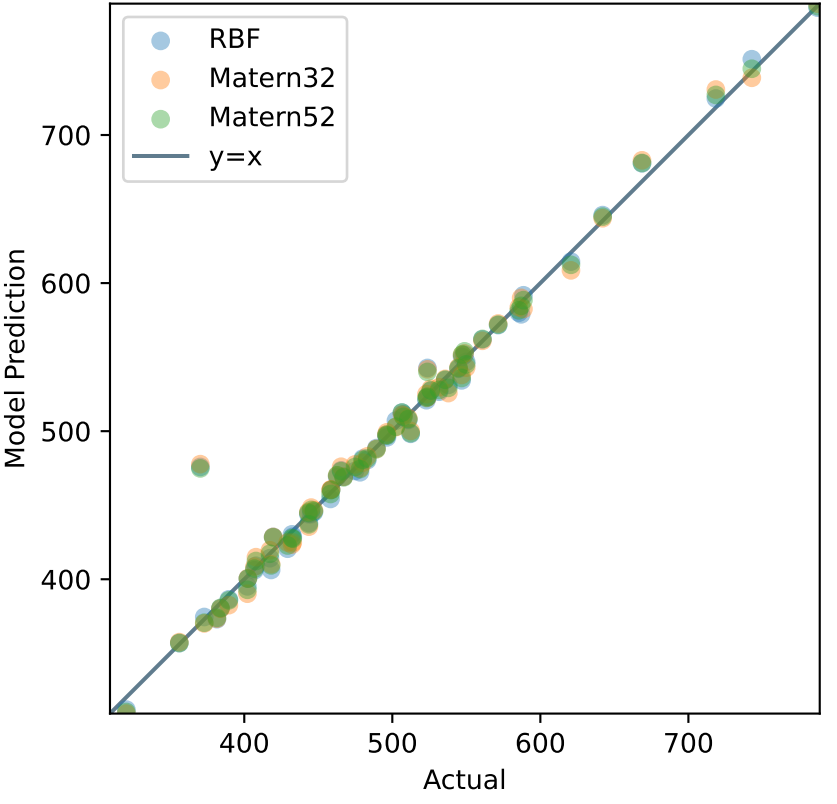
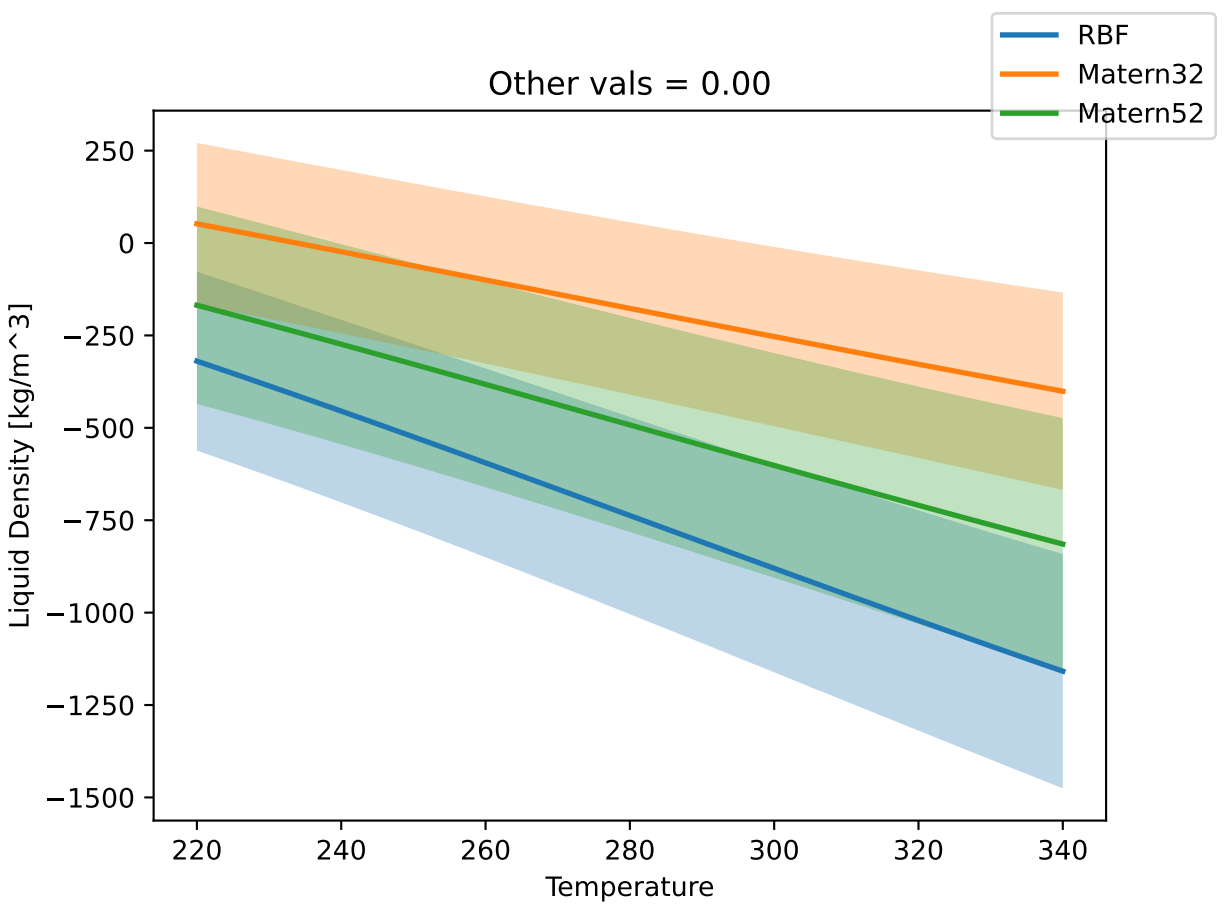
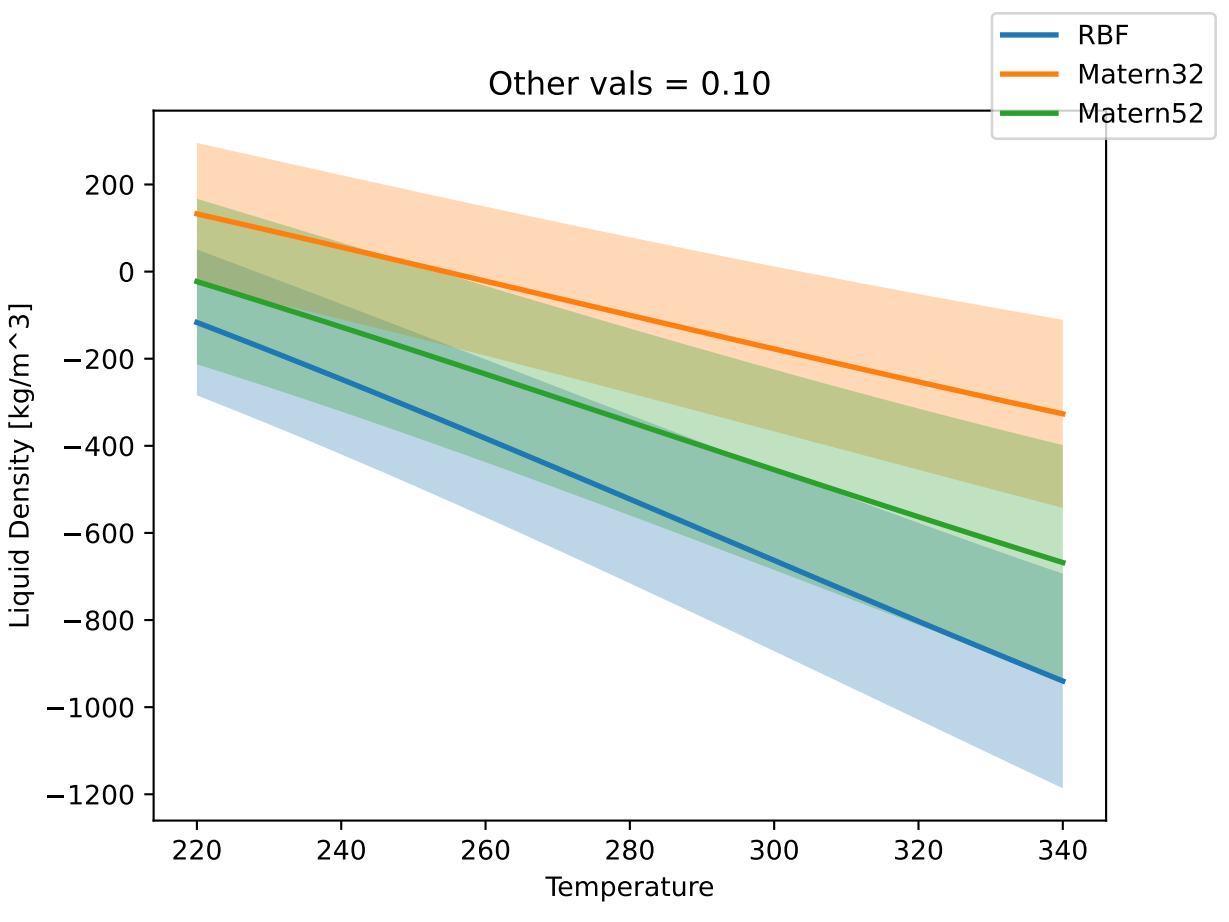
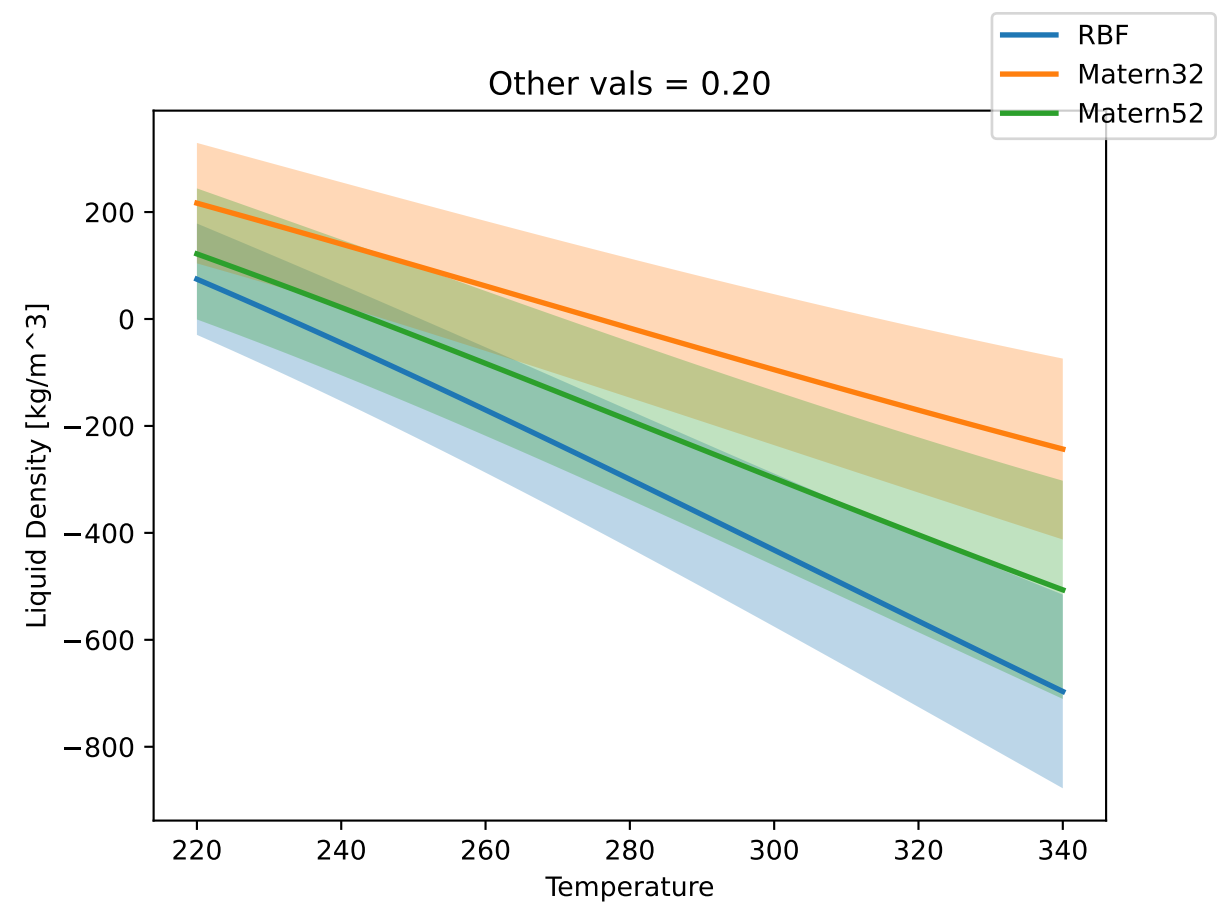
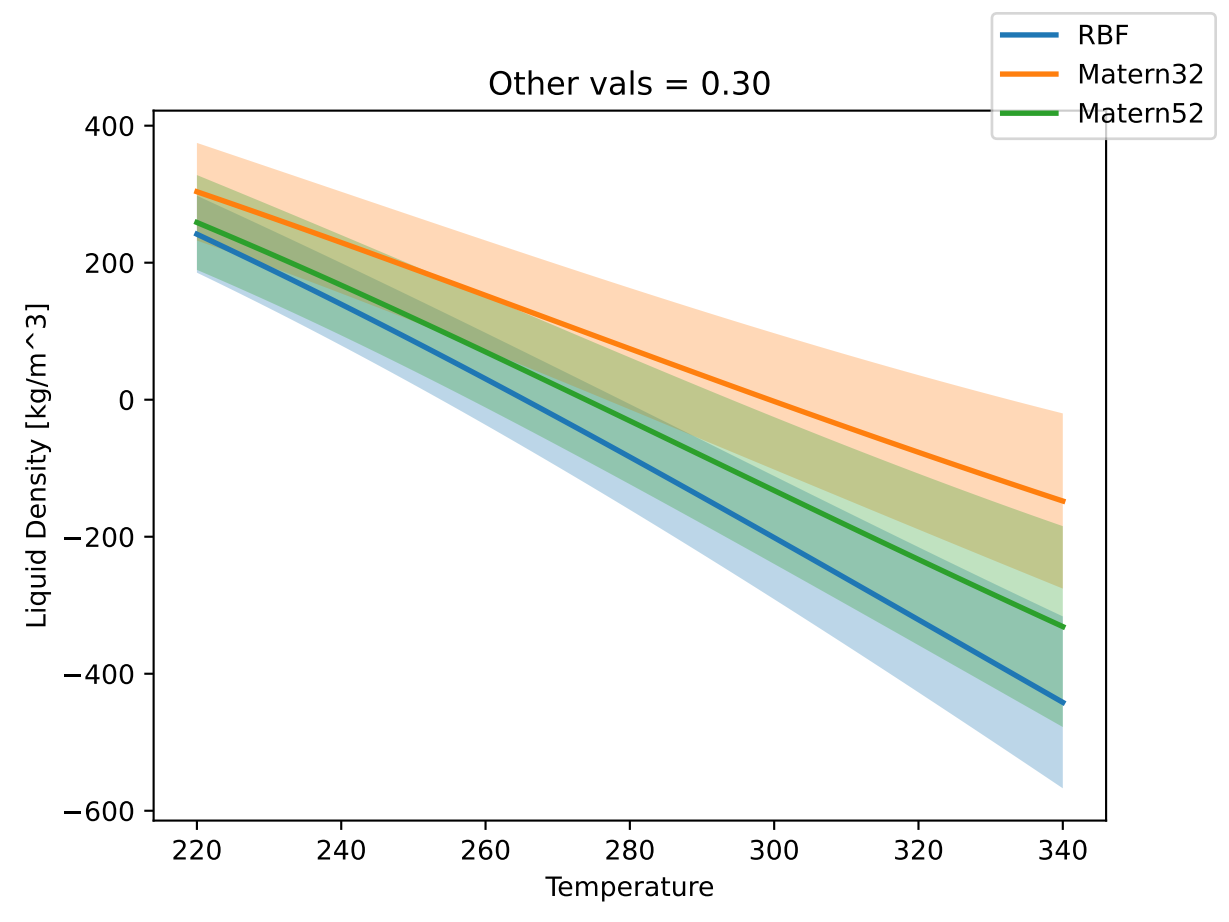

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
400
500
600
700
800

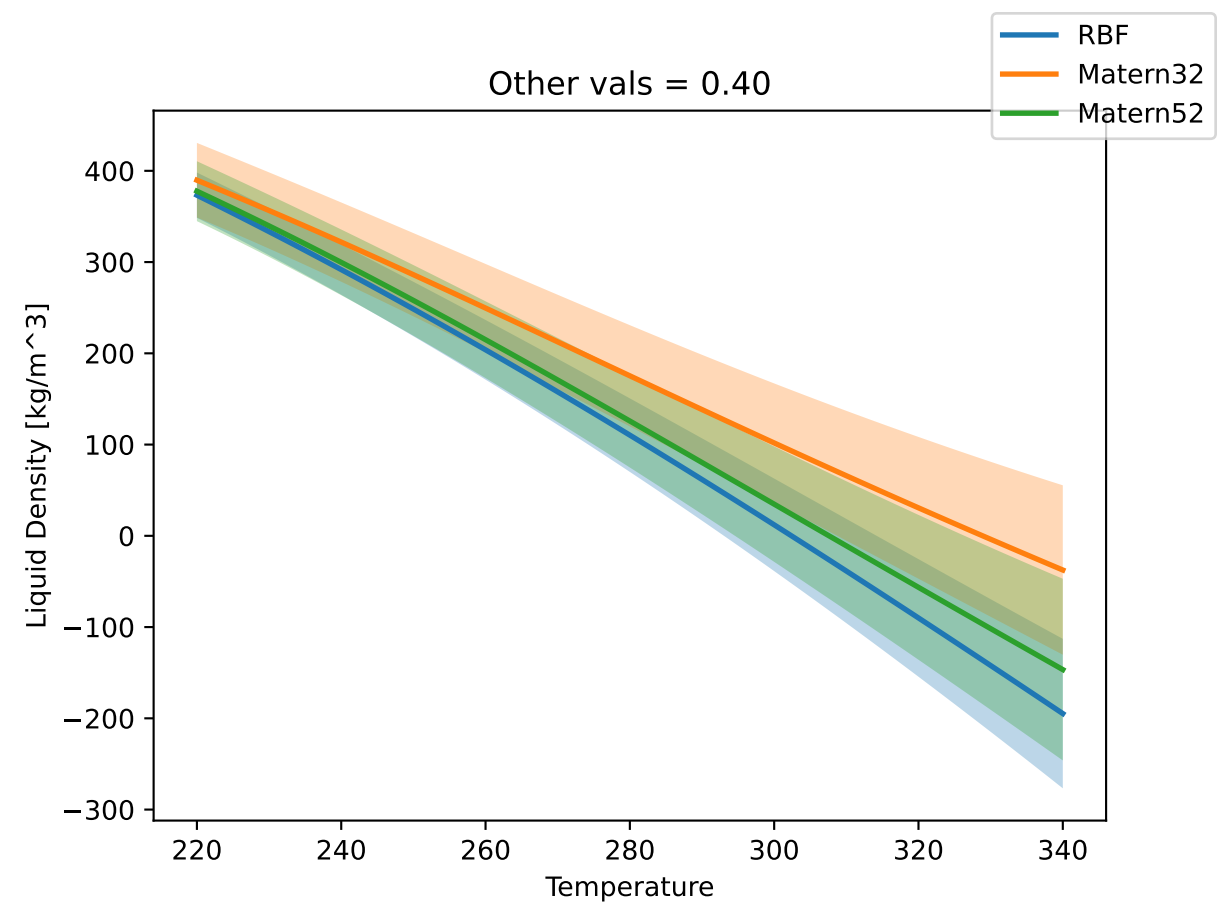

RBF
Matern32
Matern52
y=x
Model Prediction
Actual
400
500
600
700
400
500
600
700

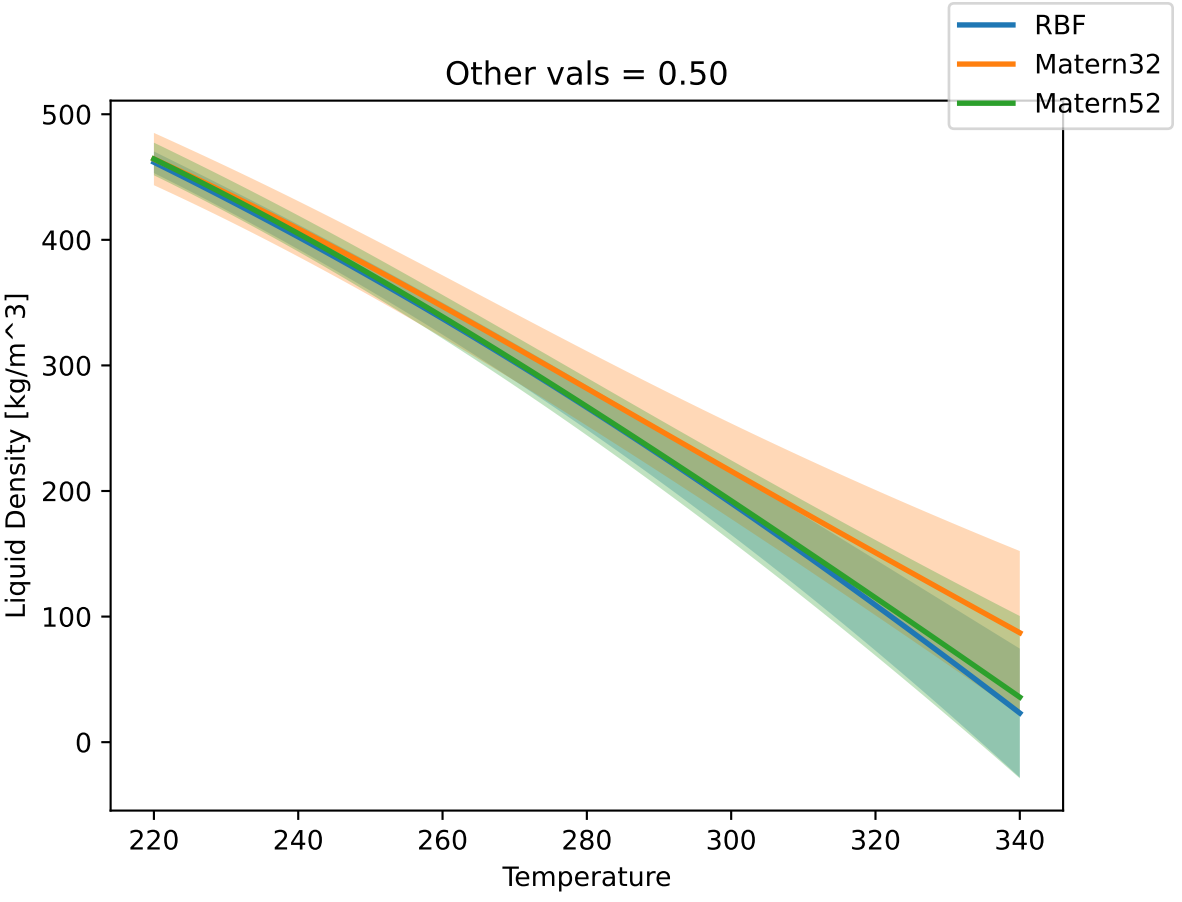

RBF
Matern32
Matern52
Other vals = 0.00
Liquid Density [kg/m^3]
250
0
−250
−500
−750
−1000
−1250
−1500
220
240
260
280
300
320
340
Temperature

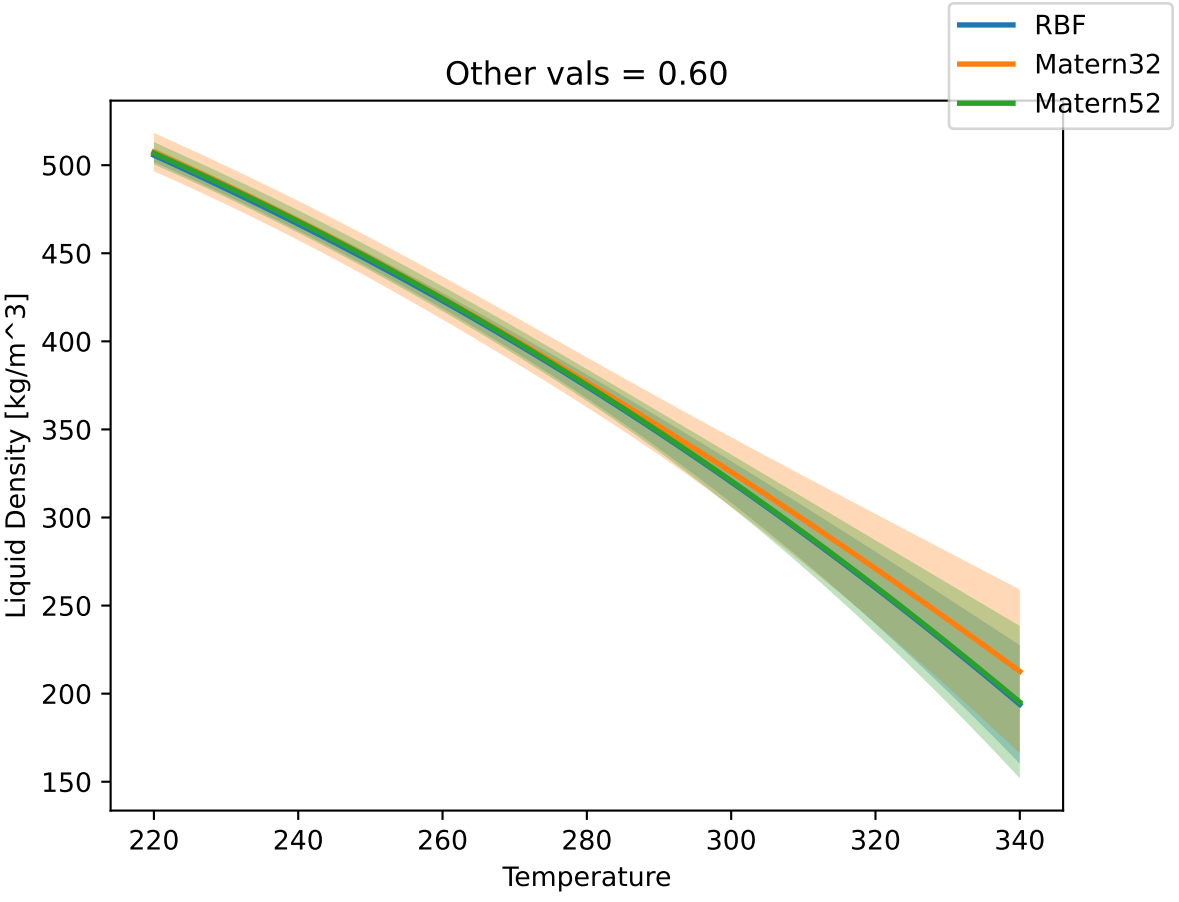

RBF
Matern32
Matern52
Other vals = 0.10
Liquid Density [kg/m^3]
200
0
−200
−400
−600
−800
−1000
−1200
220
240
260
280
300
320
340
Temperature

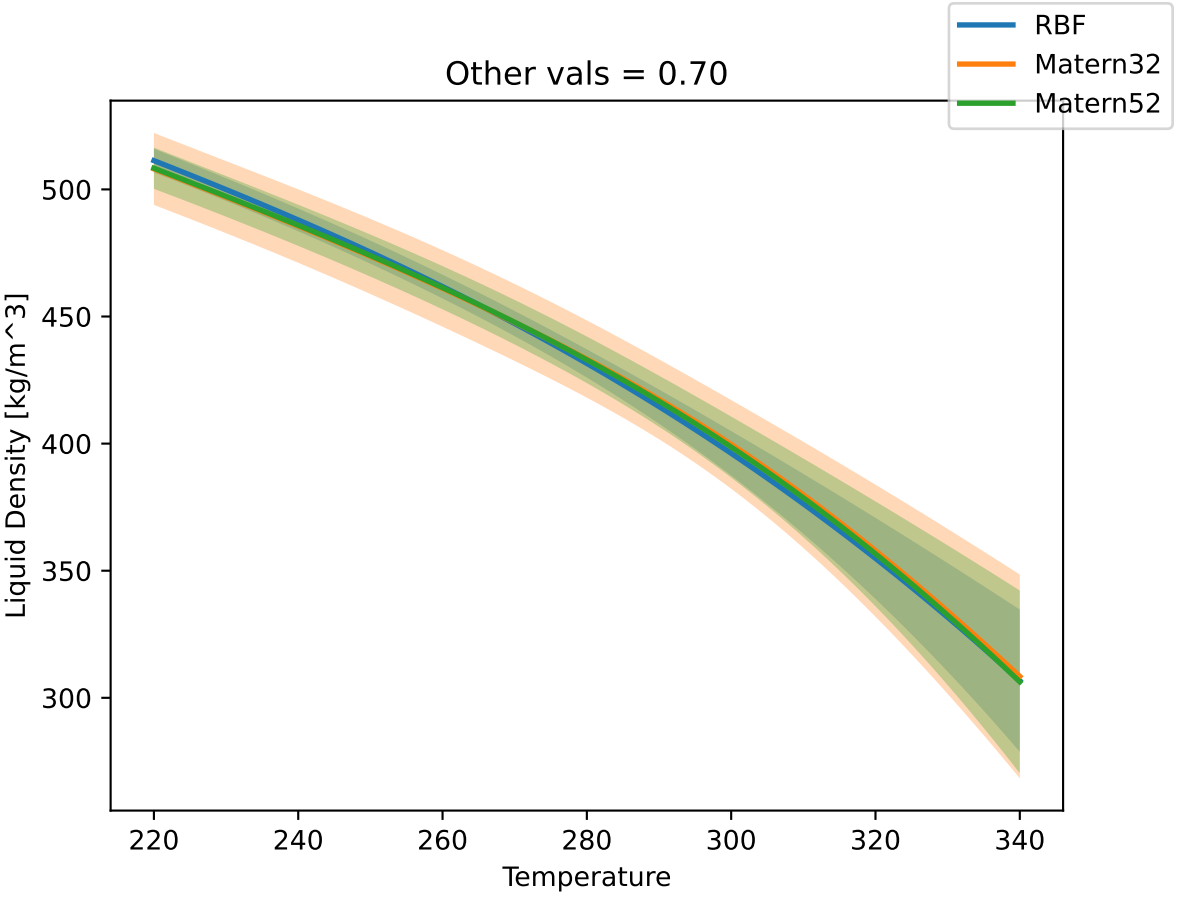

RBF
Matern32
Matern52
Other vals = 0.20
Liquid Density [kg/m^3]
200
0
−200
−400
−600
−800
220
240
260
280
300
320
340
Temperature

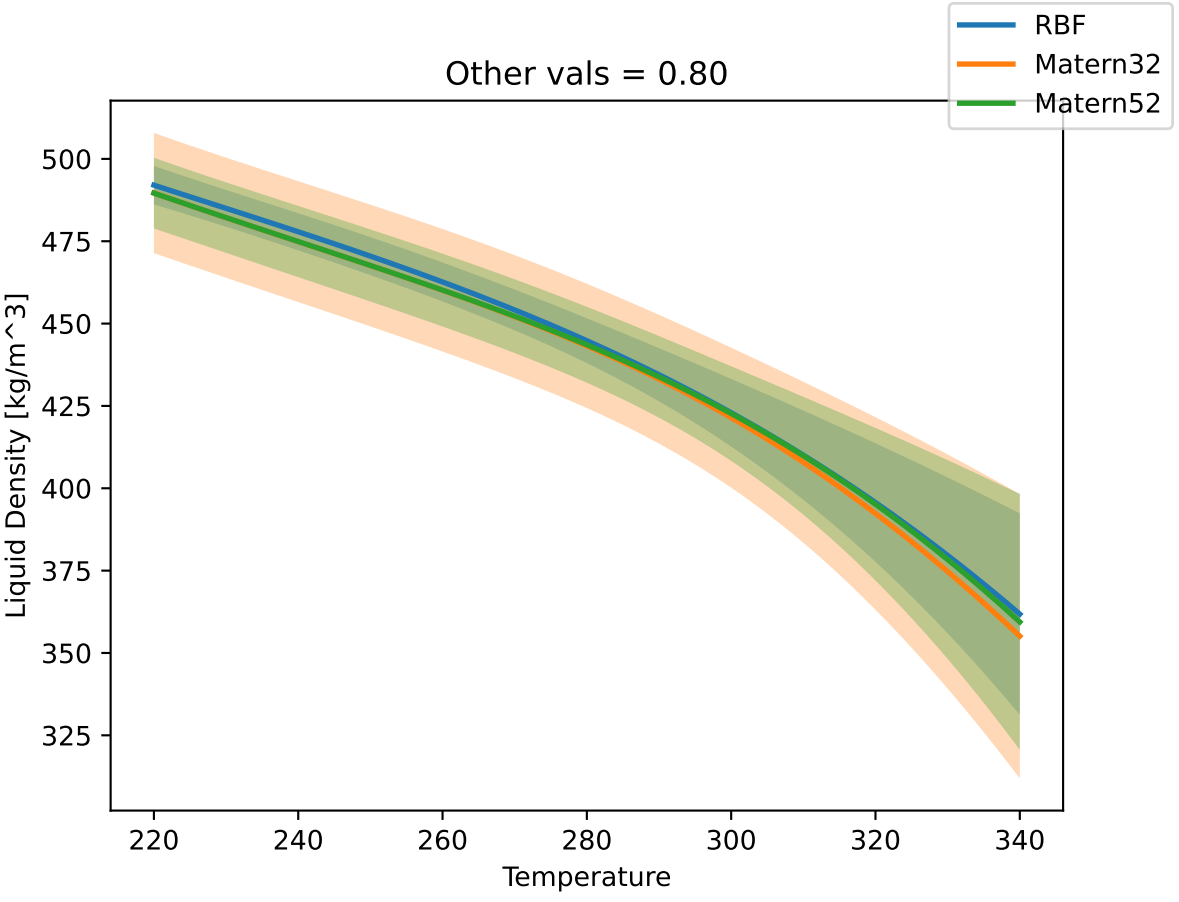

RBF
Matern32
Matern52
Other vals = 0.30
Liquid Density [kg/m^3]
Temperature
400
200
0
−200
−400
−600
220
240
260
280
300
320
340

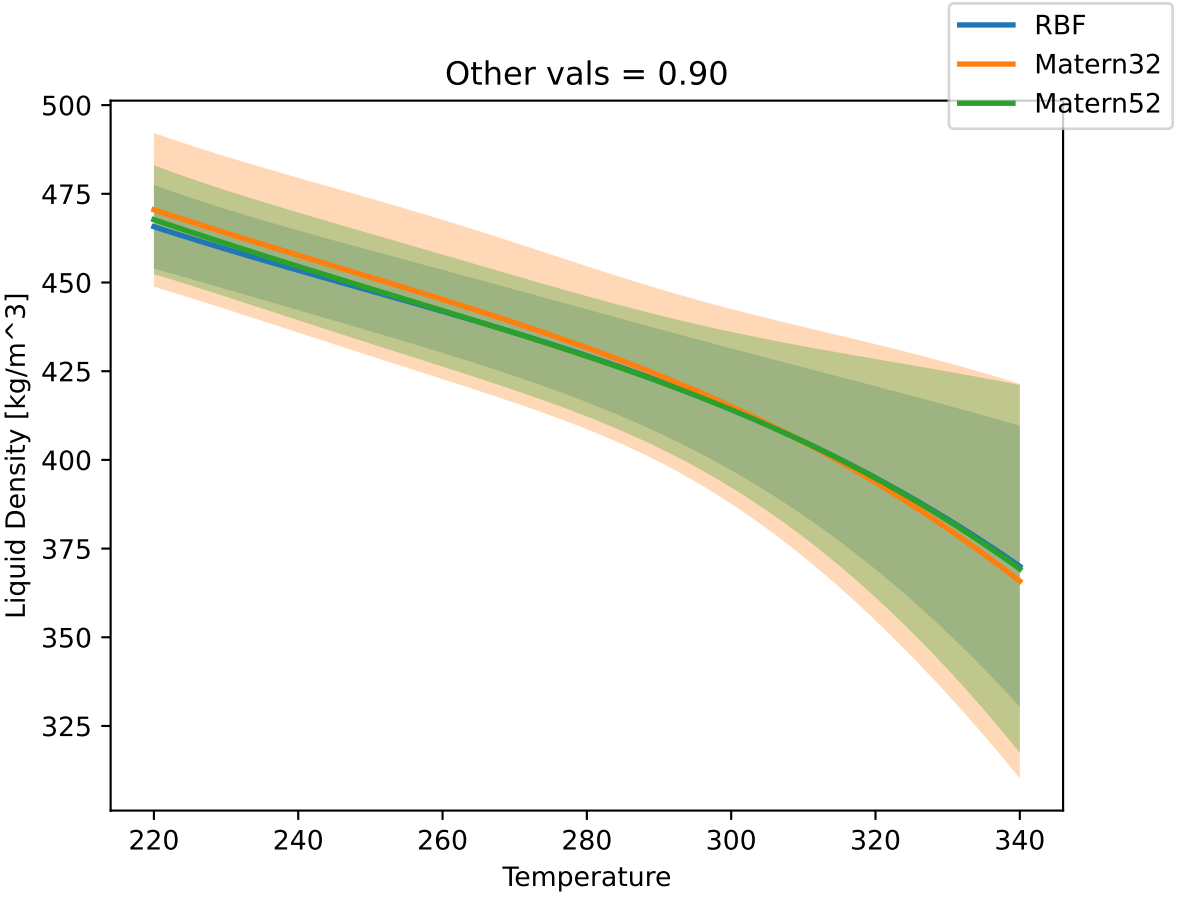

RBF
Matern32
Matern52
Other vals = 0.40
Liquid Density [kg/m^3]
400
300
200
100
0
−100
−200
−300
220
240
260
280
300
320
340
Temperature

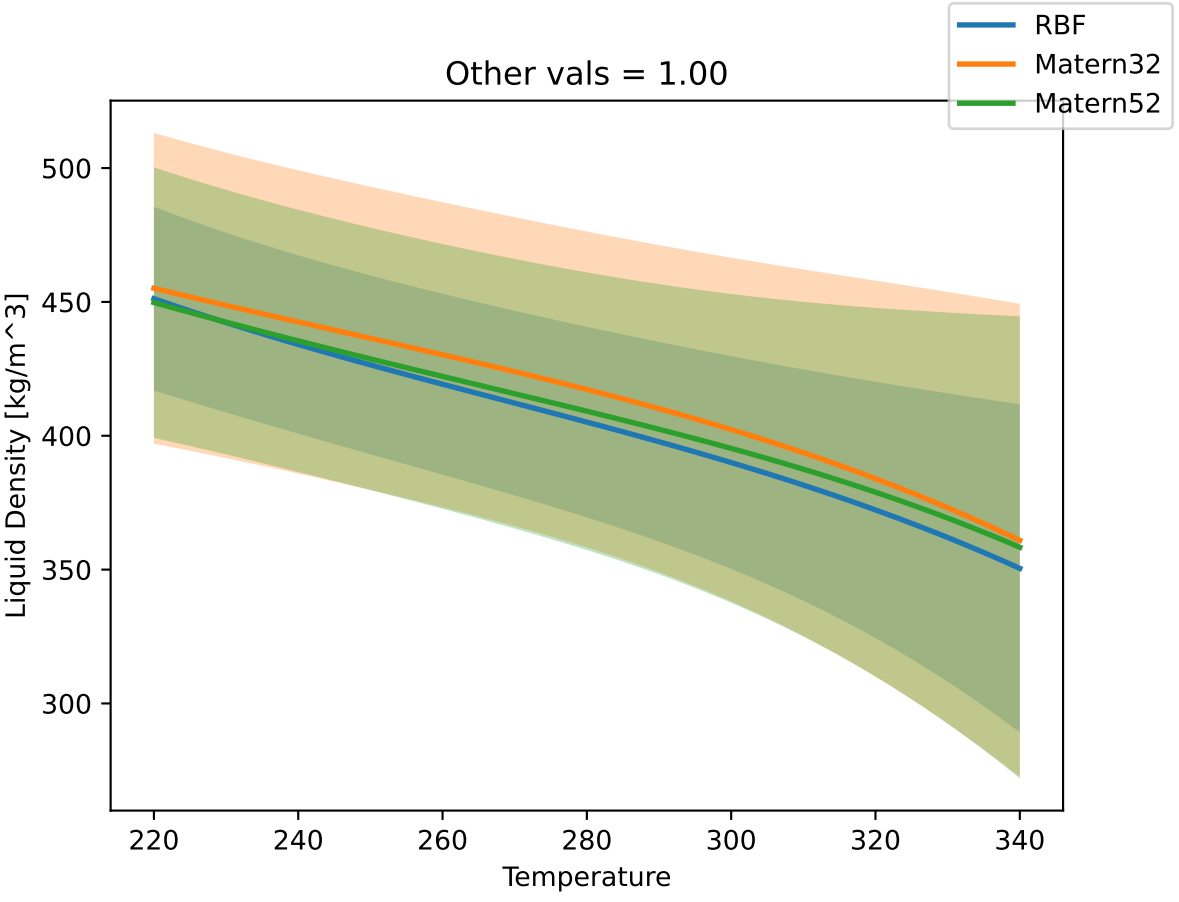

RBF
Matern32
Matern52
Other vals = 0.50
Liquid Density [kg/m^3]
500
400
300
200
100
0
220
240
260
280
300
320
340
Temperature

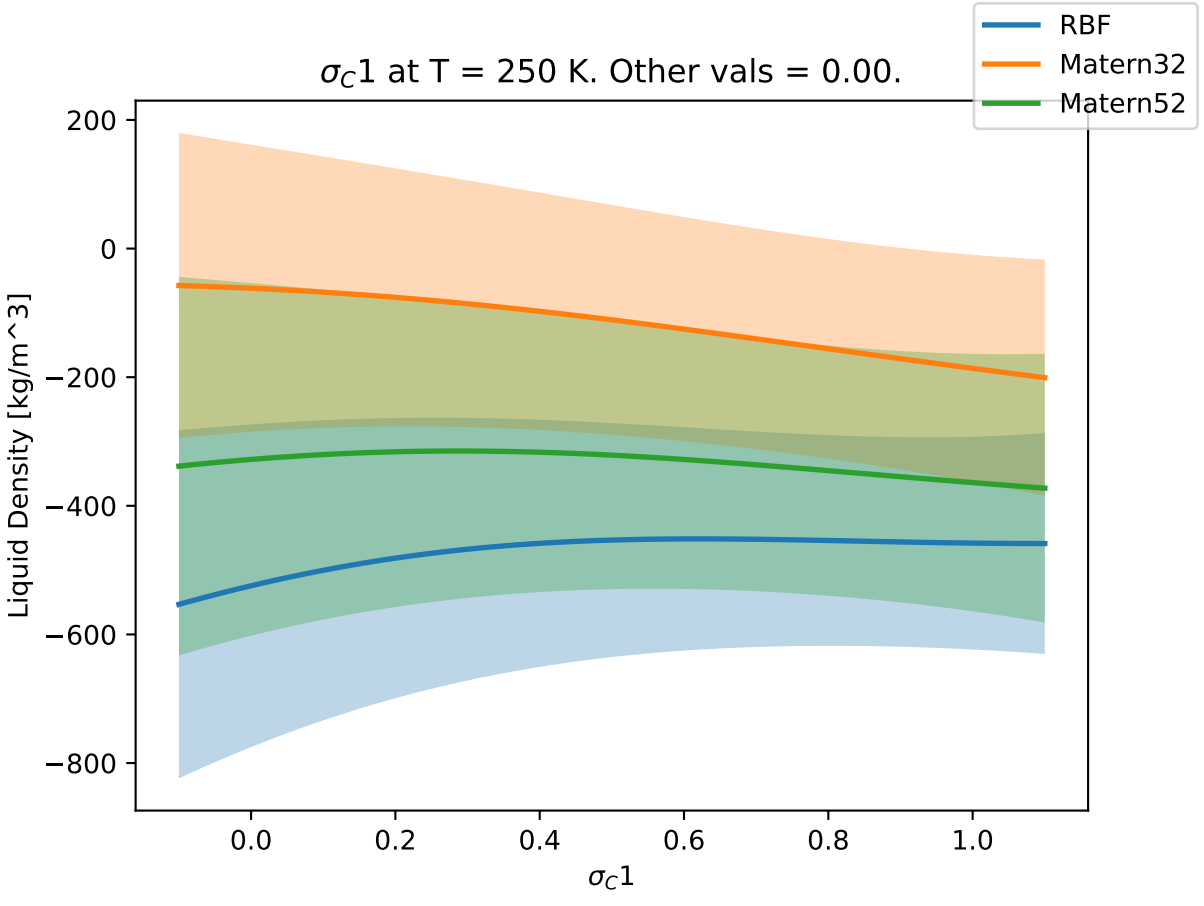

RBF
Matern32
Matern52
Other vals = 0.60
Liquid Density [kg/m^3]
500
450
400
350
300
250
200
150
220
240
260
280
300
320
340
Temperature

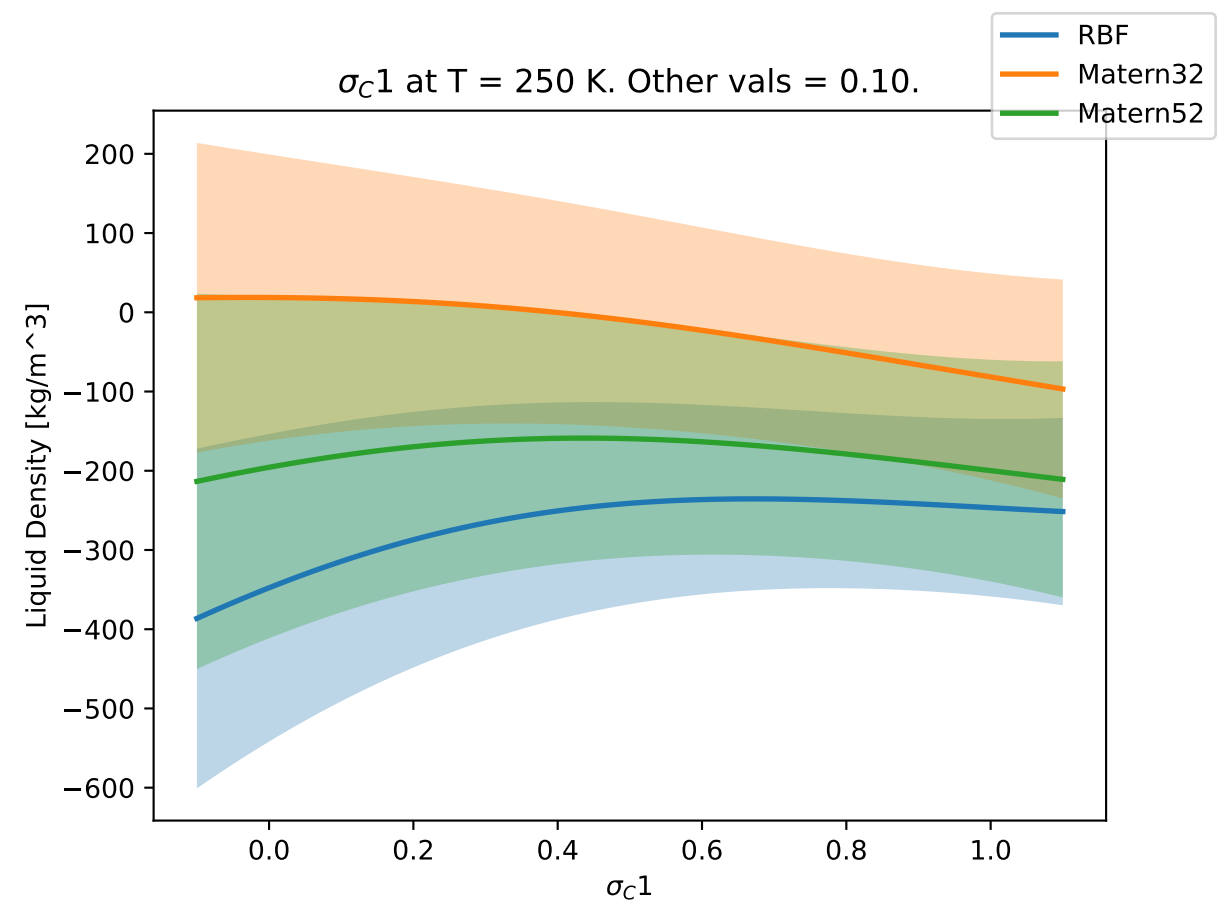

RBF
Matern32
Matern52
Other vals = 0.70
Liquid Density [kg/m^3]
500
450
400
350
300
220
240
260
280
300
320
340
Temperature

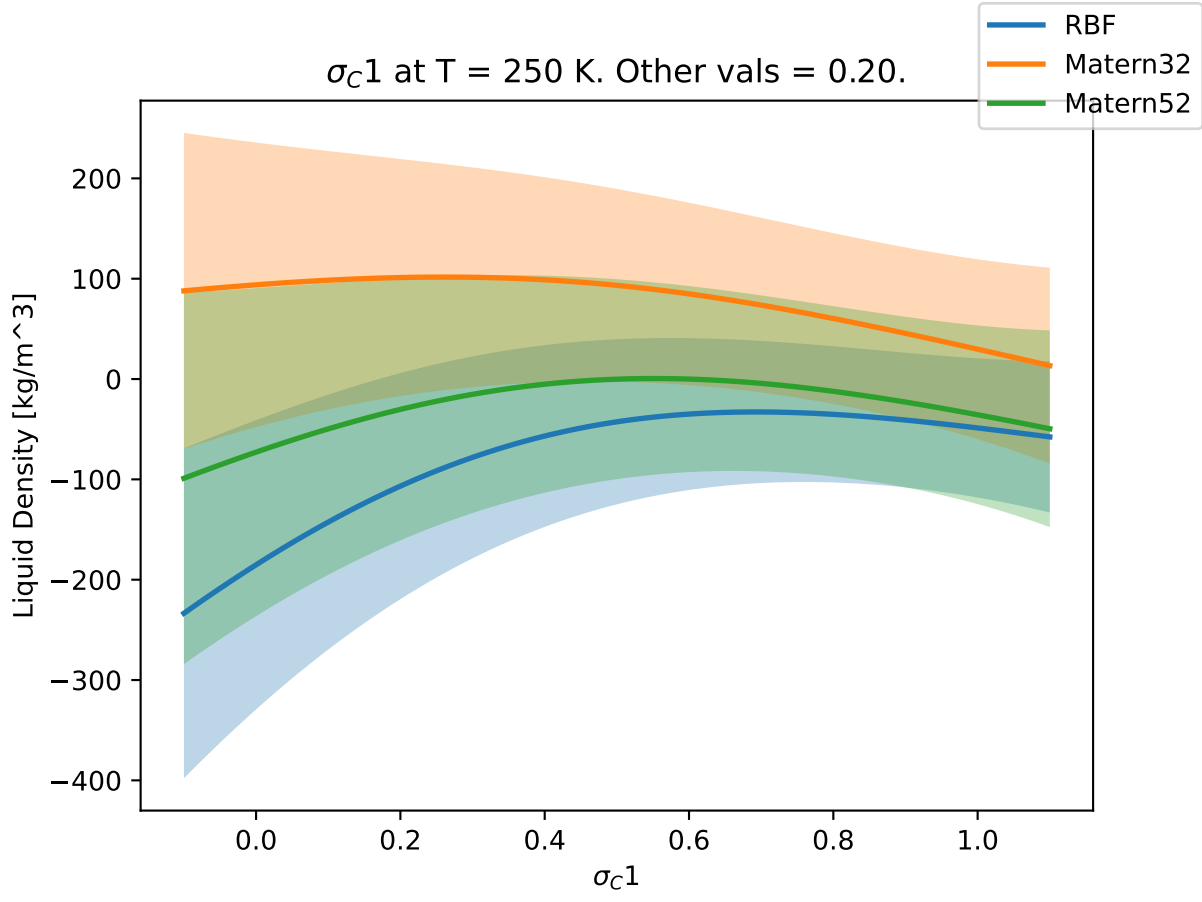

RBF
Matern32
Matern52
Other vals = 0.80
Liquid Density [kg/m^3]
500
475
450
425
400
375
350
325
220
240
260
280
300
320
340
Temperature

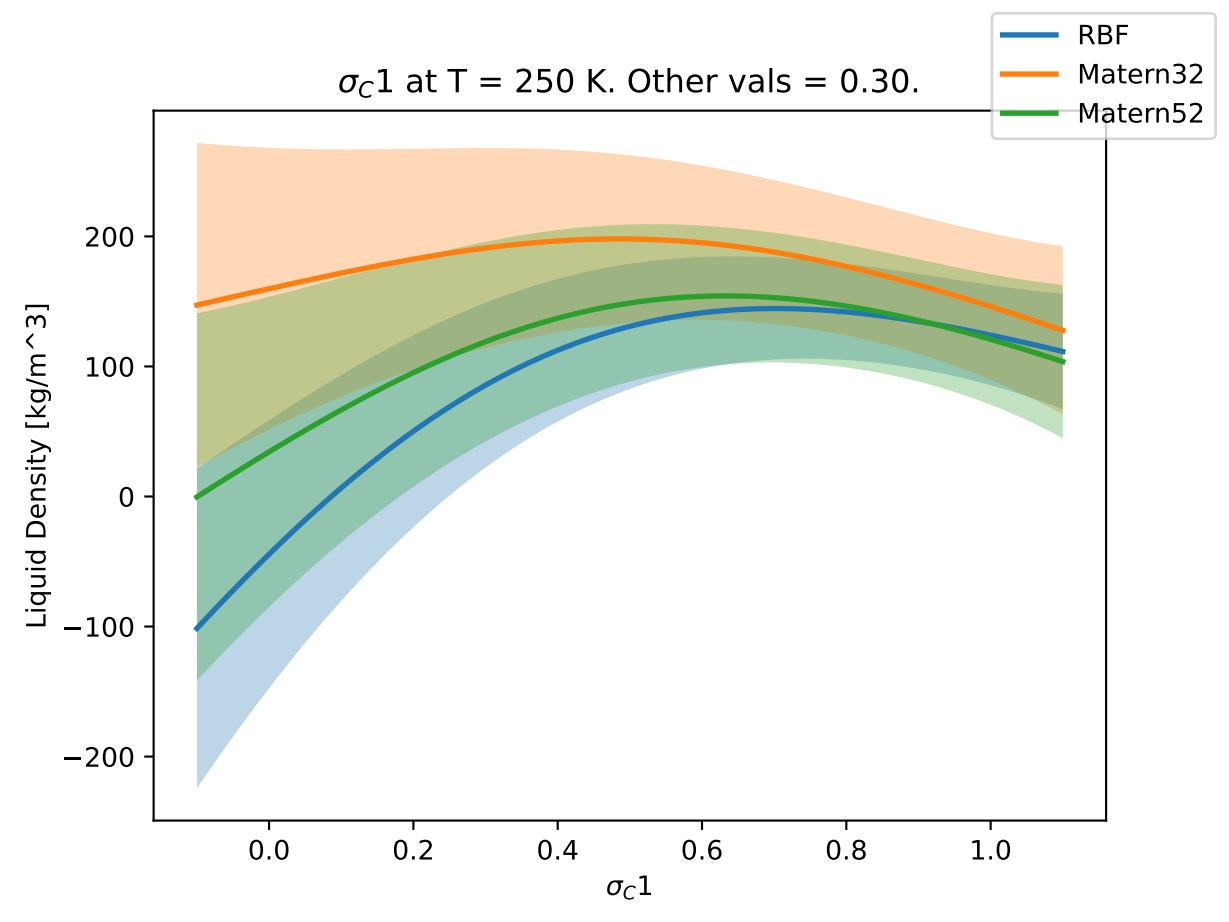

RBF
Matern32
Matern52
Other vals = 0.90
Liquid Density [kg/m^3]
Temperature
500
475
450
425
400
375
350
325
220
240
260
280
300
320
340

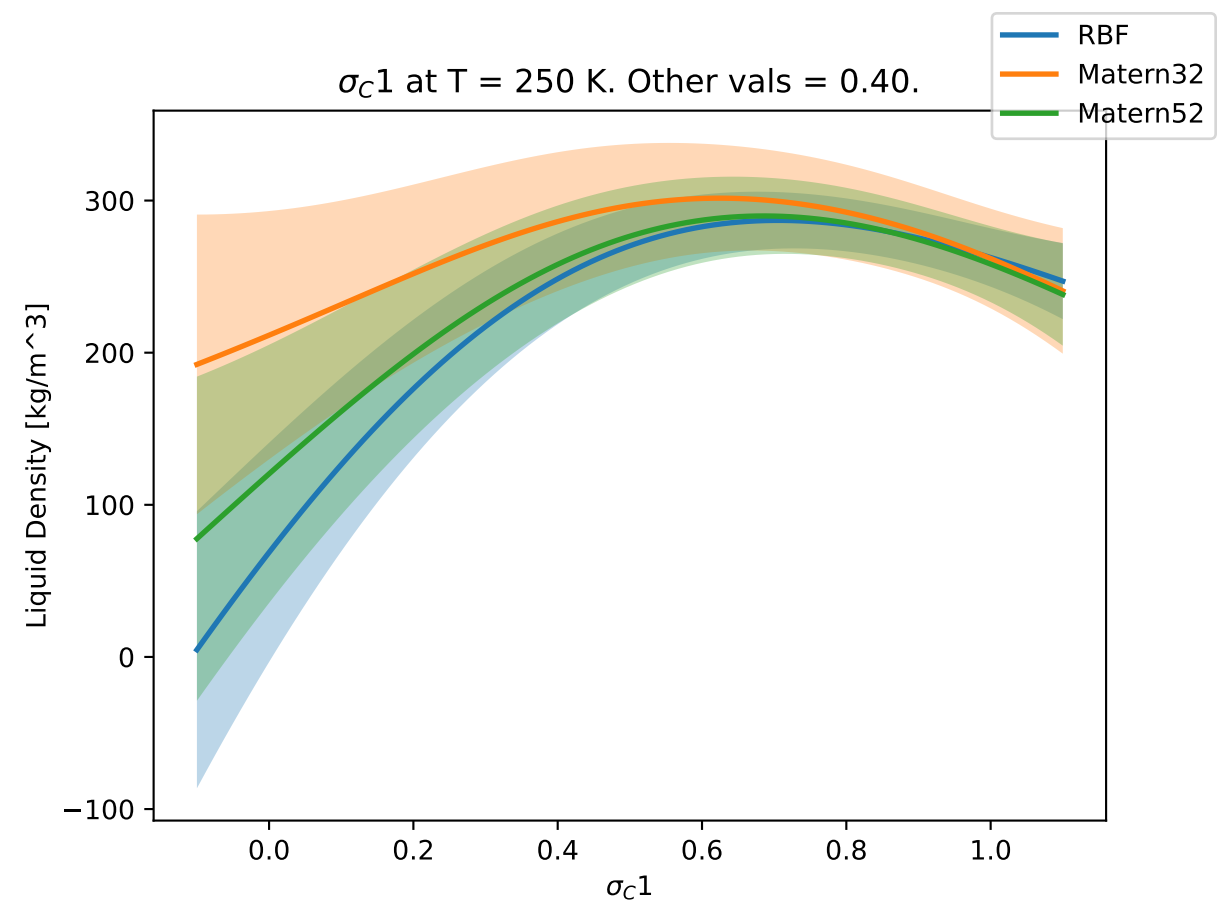

RBF
Matern32
Matern52
Other vals = 1.00
Liquid Density [kg/m^3]
500
450
400
350
300
220
240
260
280
300
320
340
Temperature

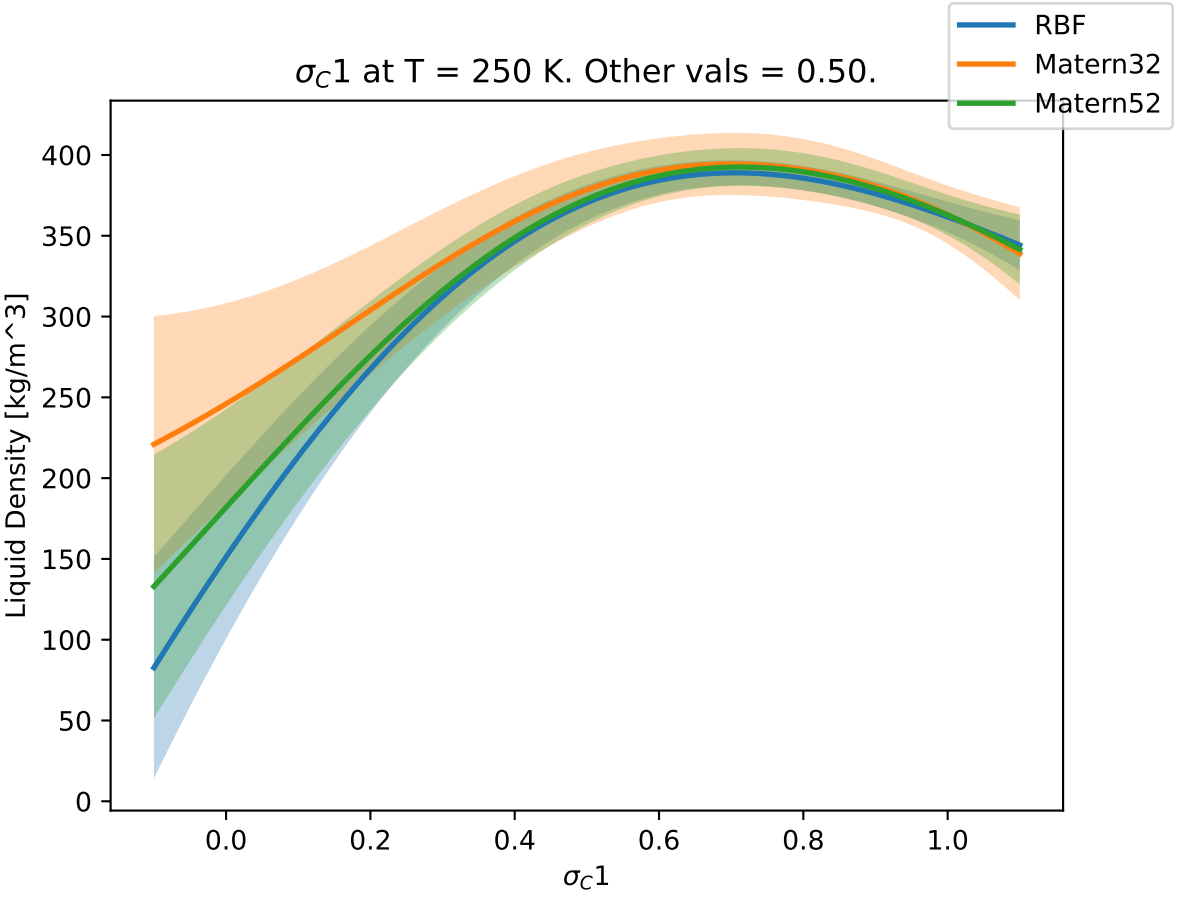

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.00.
Liquid Density [kg/m^3]
200
0
−200
−400
−600
−800
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

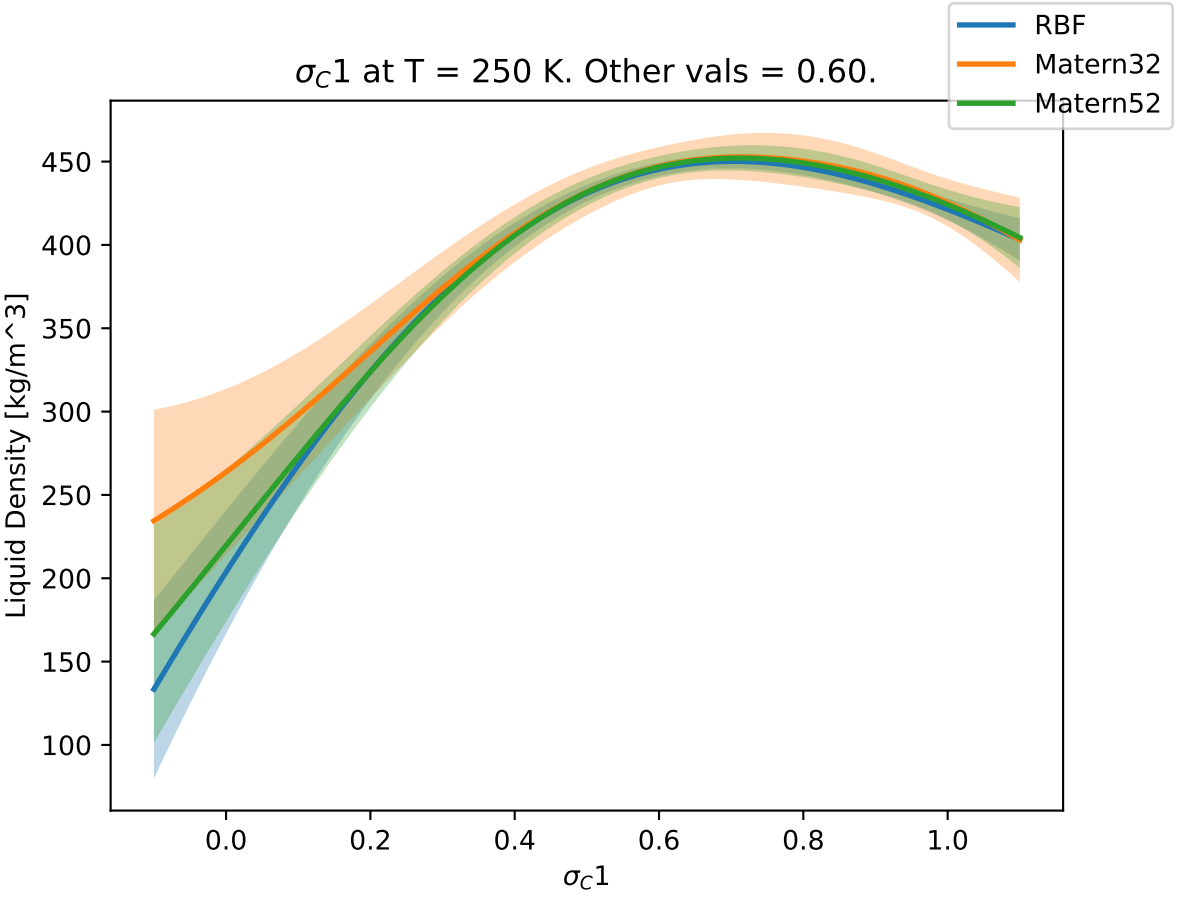

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
200
100
0
−100
−200
−300
−400
−500
−600
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

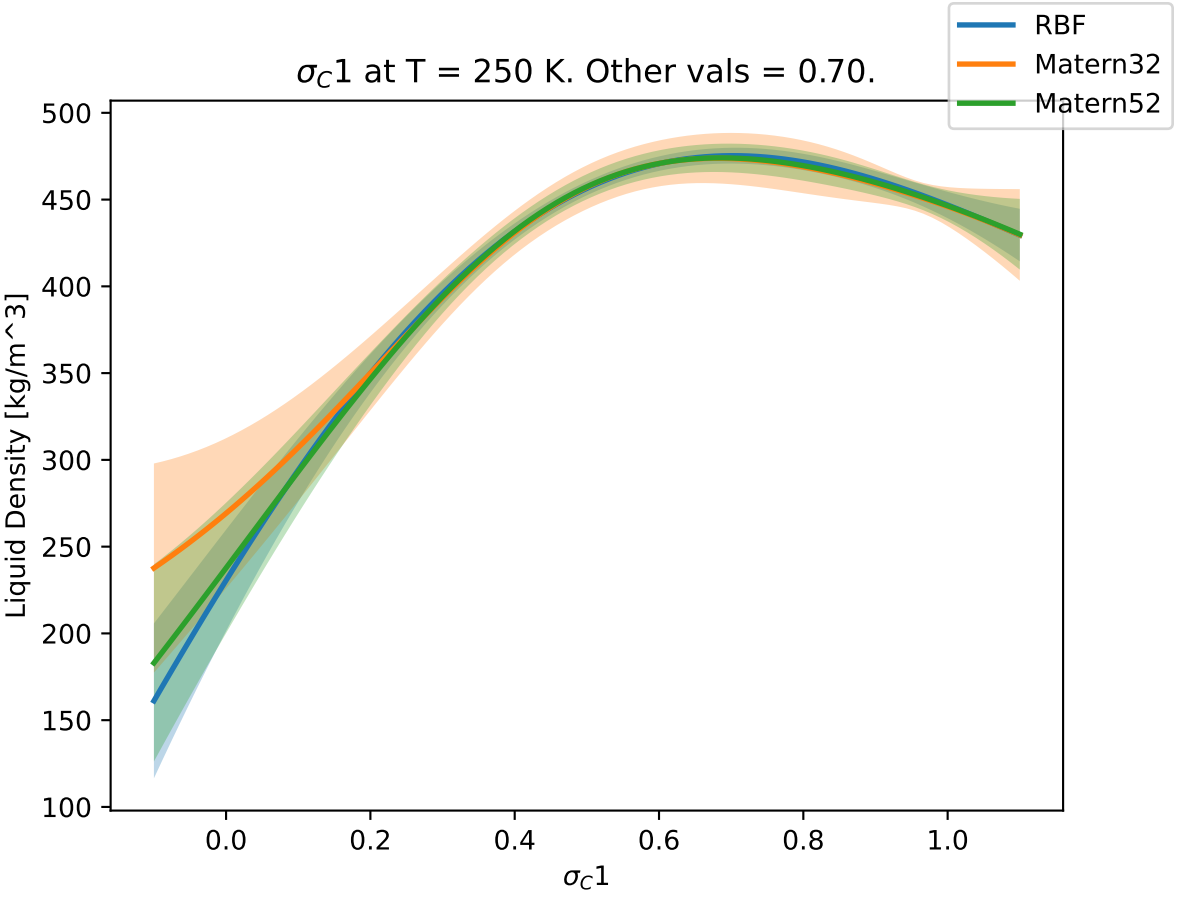

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.20.
Liquid Density [kg/m^3]
200
100
0
−100
−200
−300
−400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

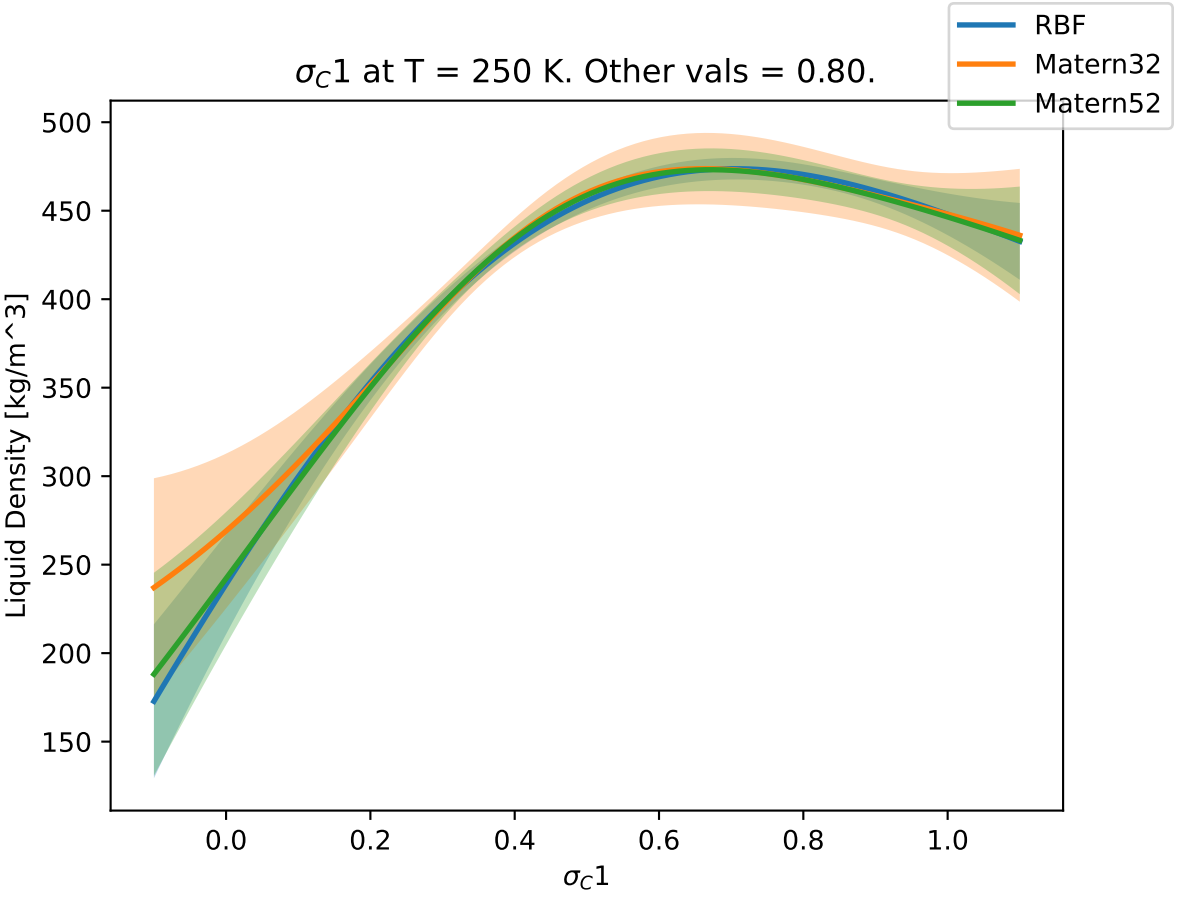

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.30.
Liquid Density [kg/m^3]
200
100
0
−100
−200
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

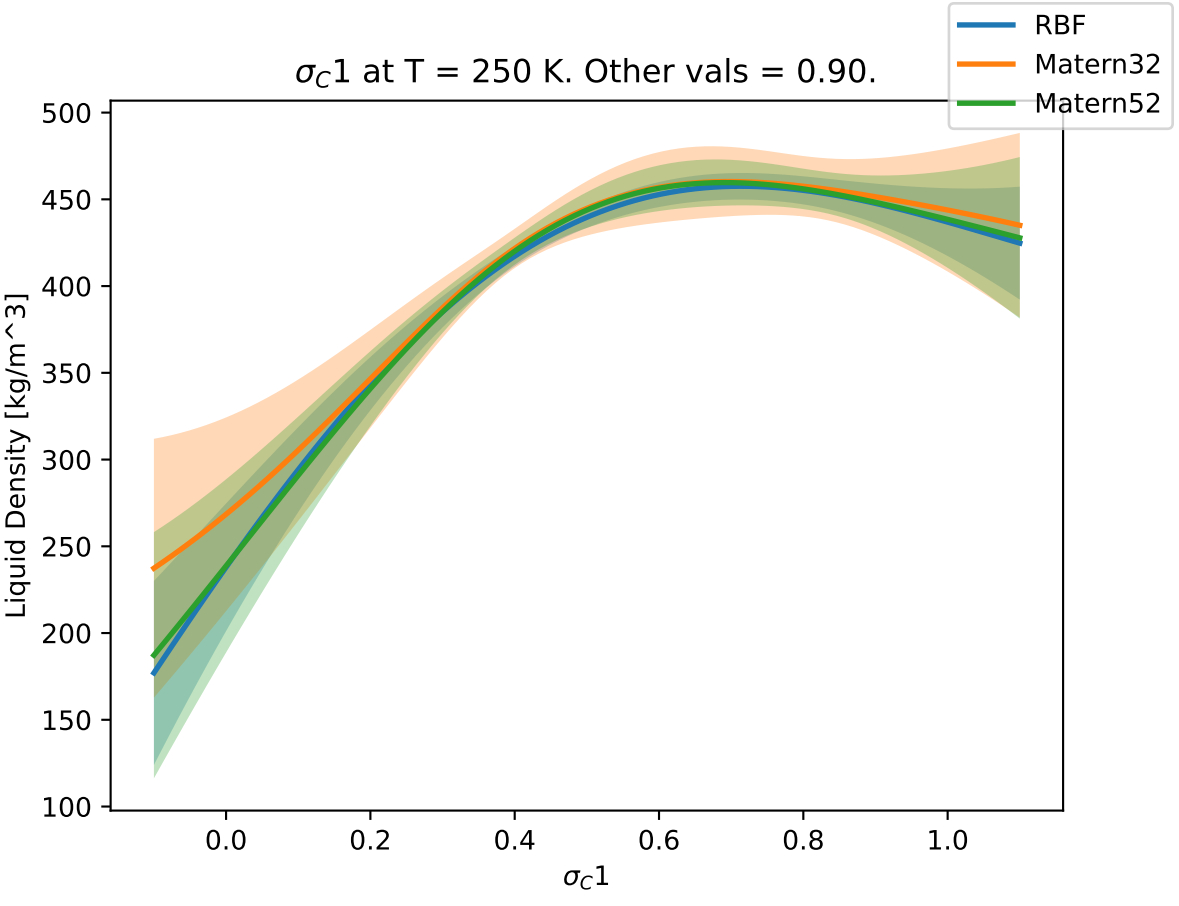

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

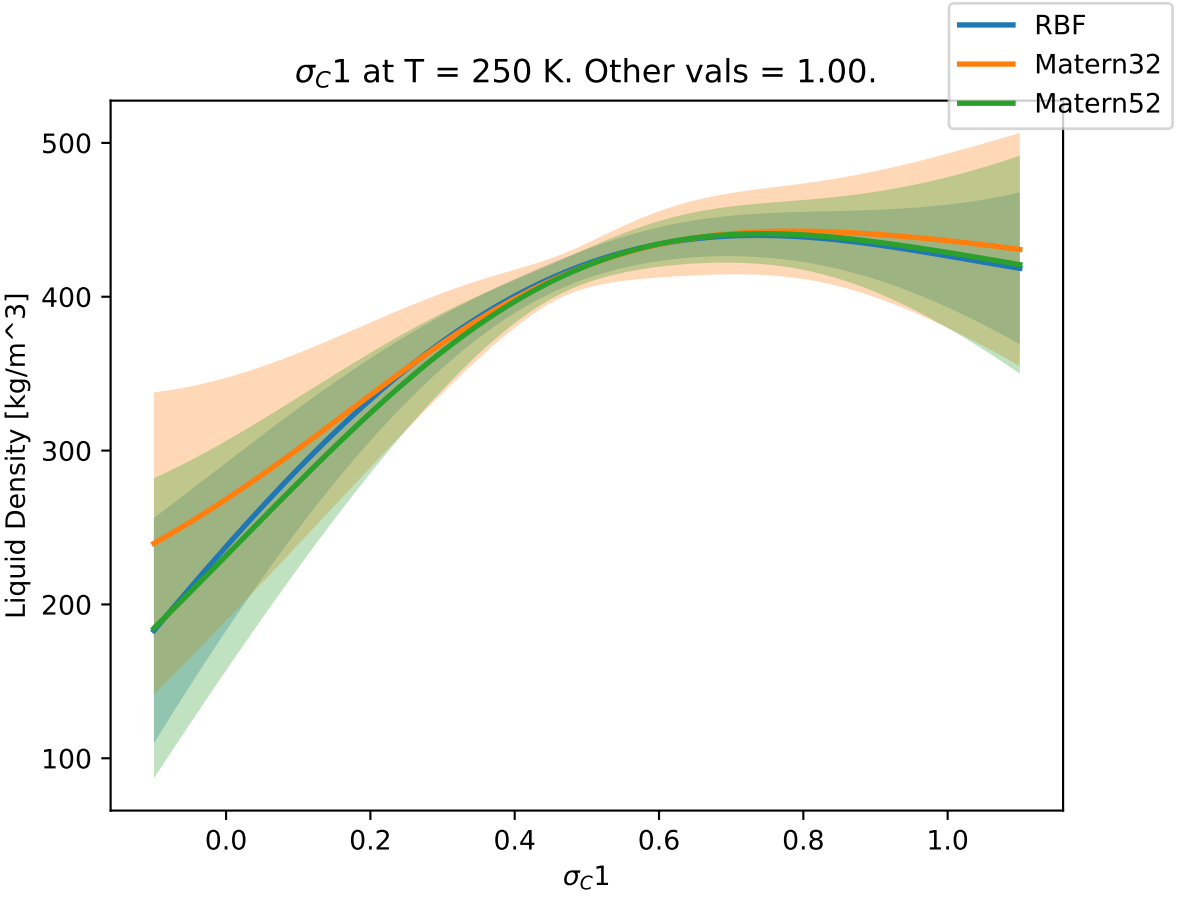

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
0
50
100
150
200
250
300
350
400
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

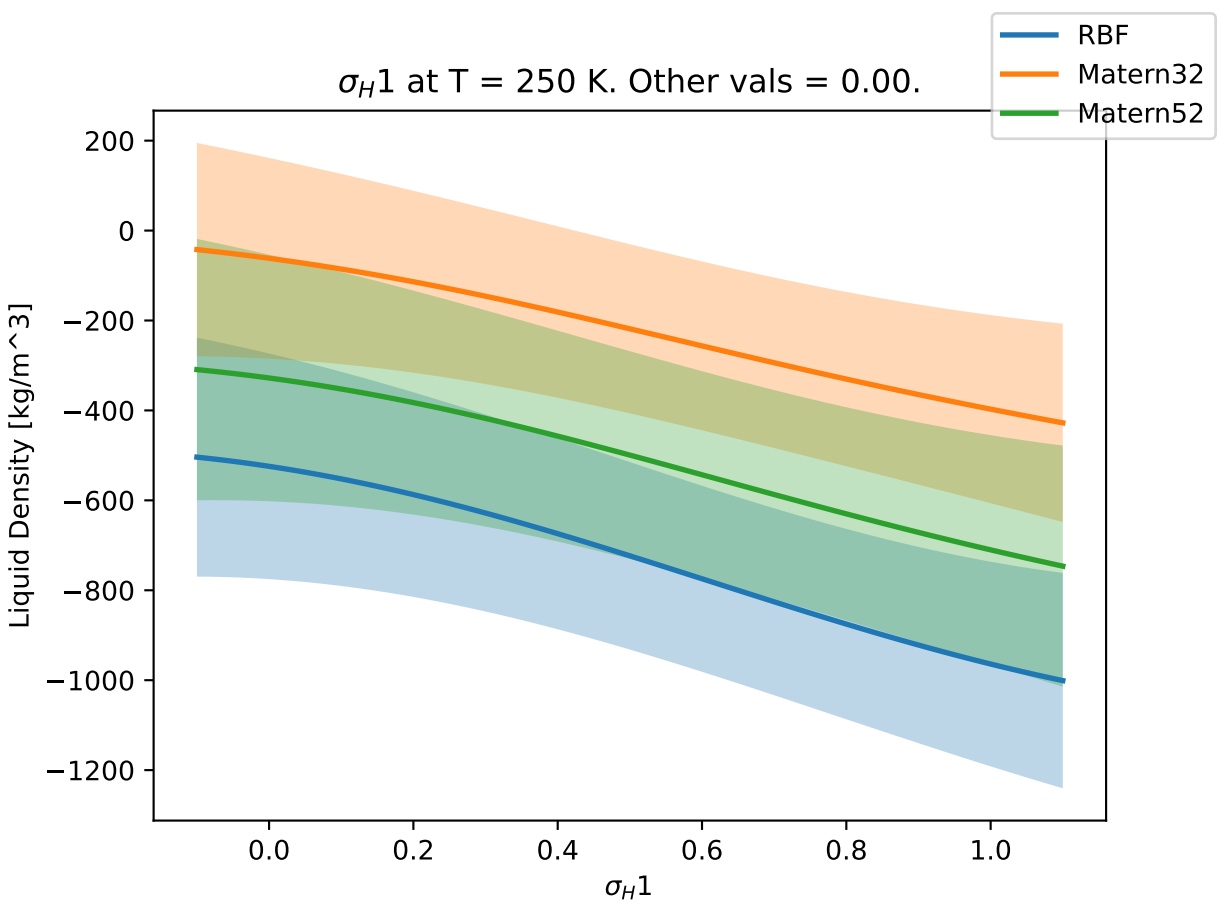

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
450
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

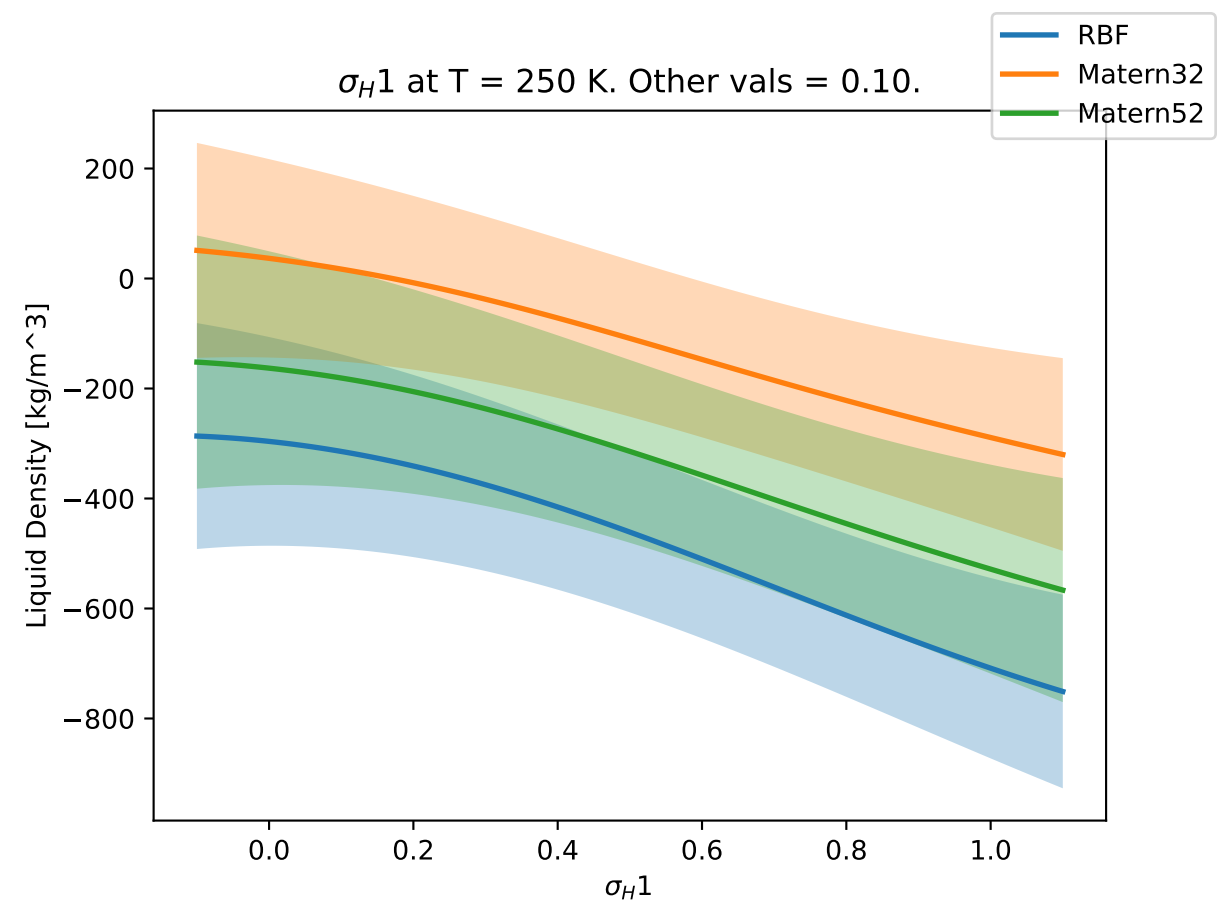

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
500
450
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

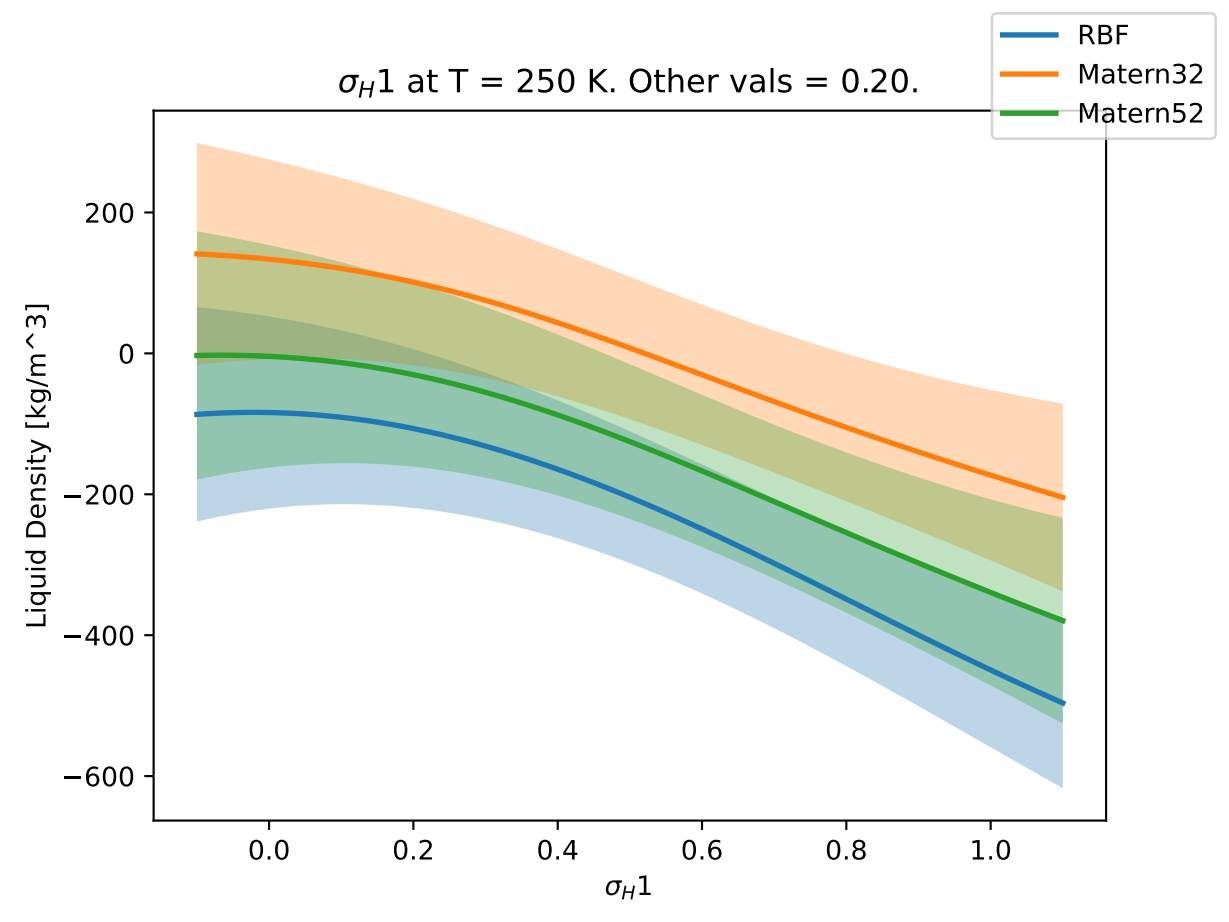

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
500
450
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

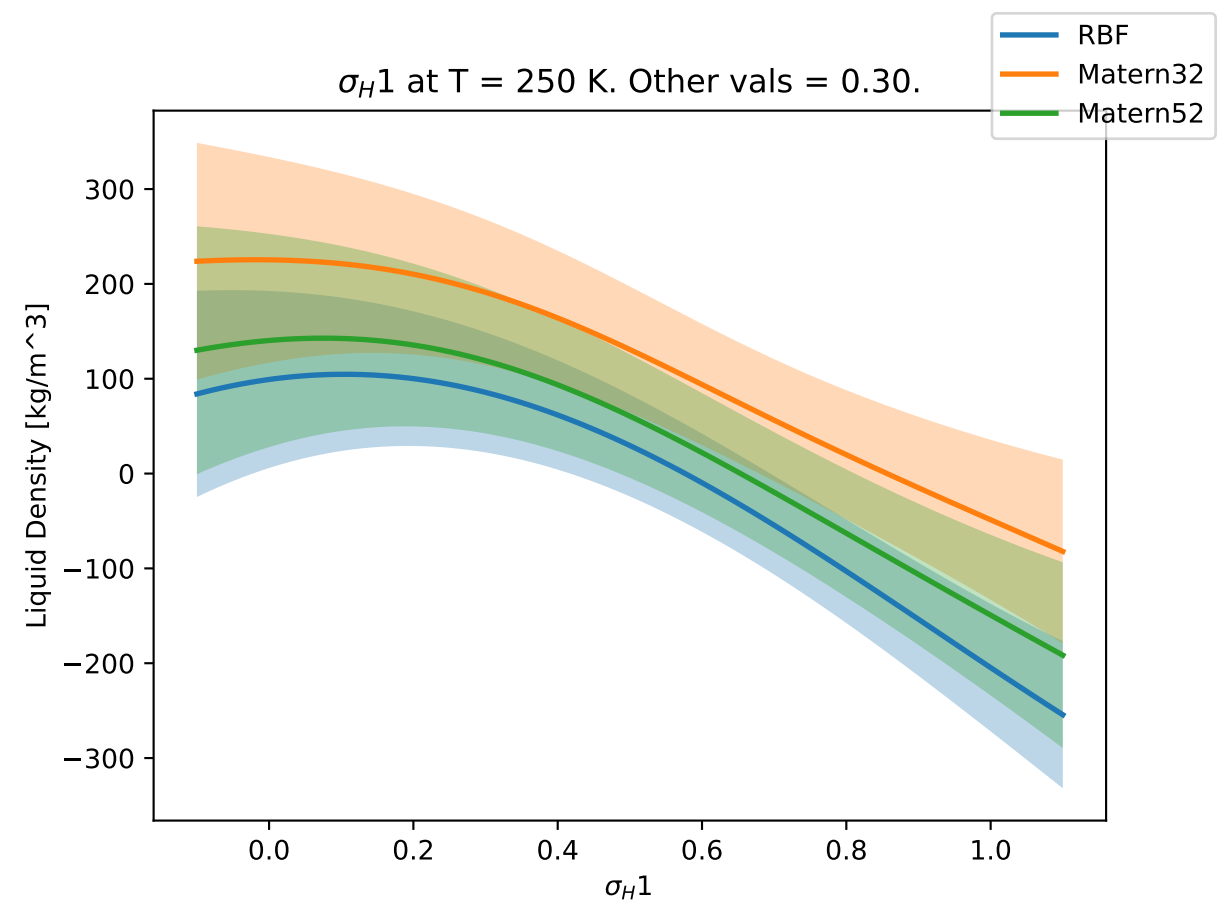

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
500
450
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

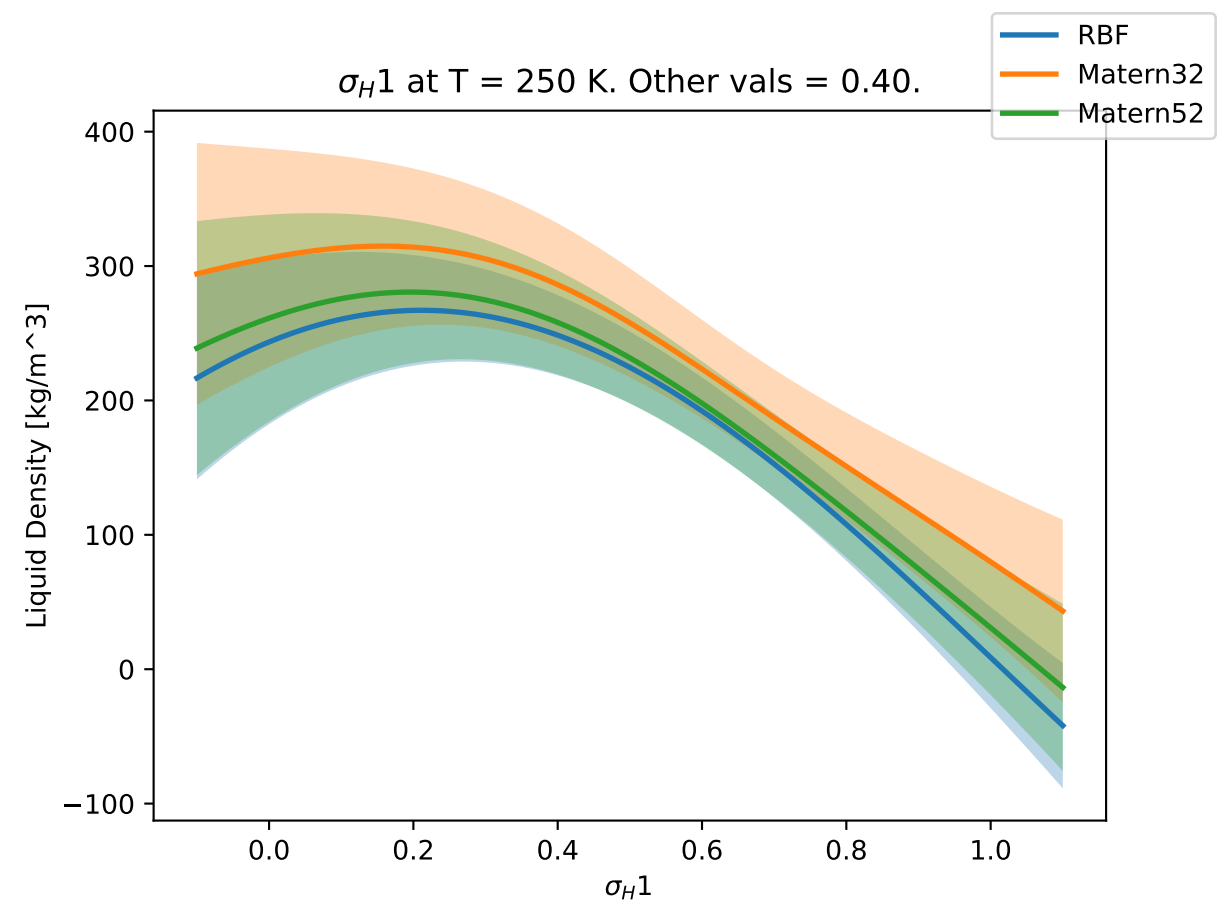

RBF
Matern32
Matern52
σ_C1 at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
500
400
300
200
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_C1

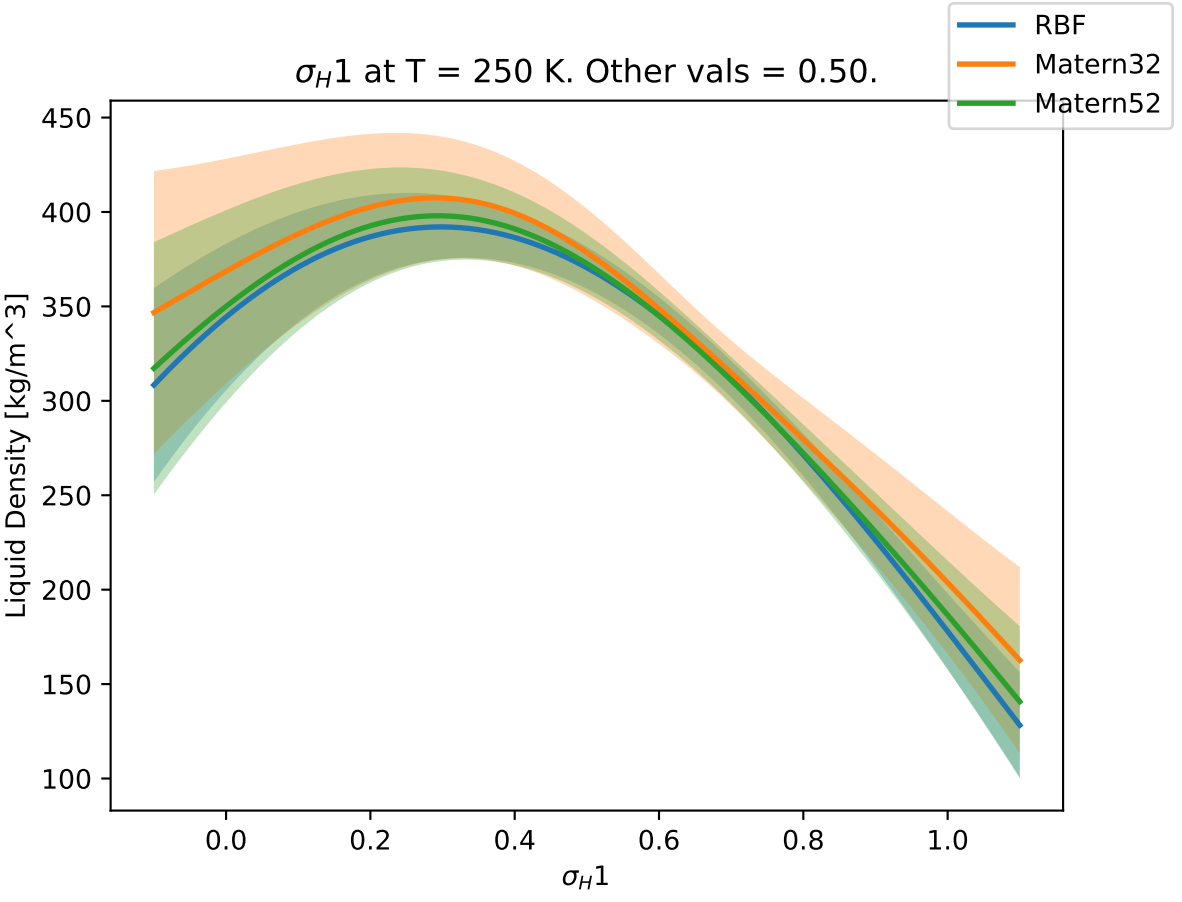

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.00.
Liquid Density [kg/m^3]
200
0
−200
−400
−600
−800
−1000
−1200
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

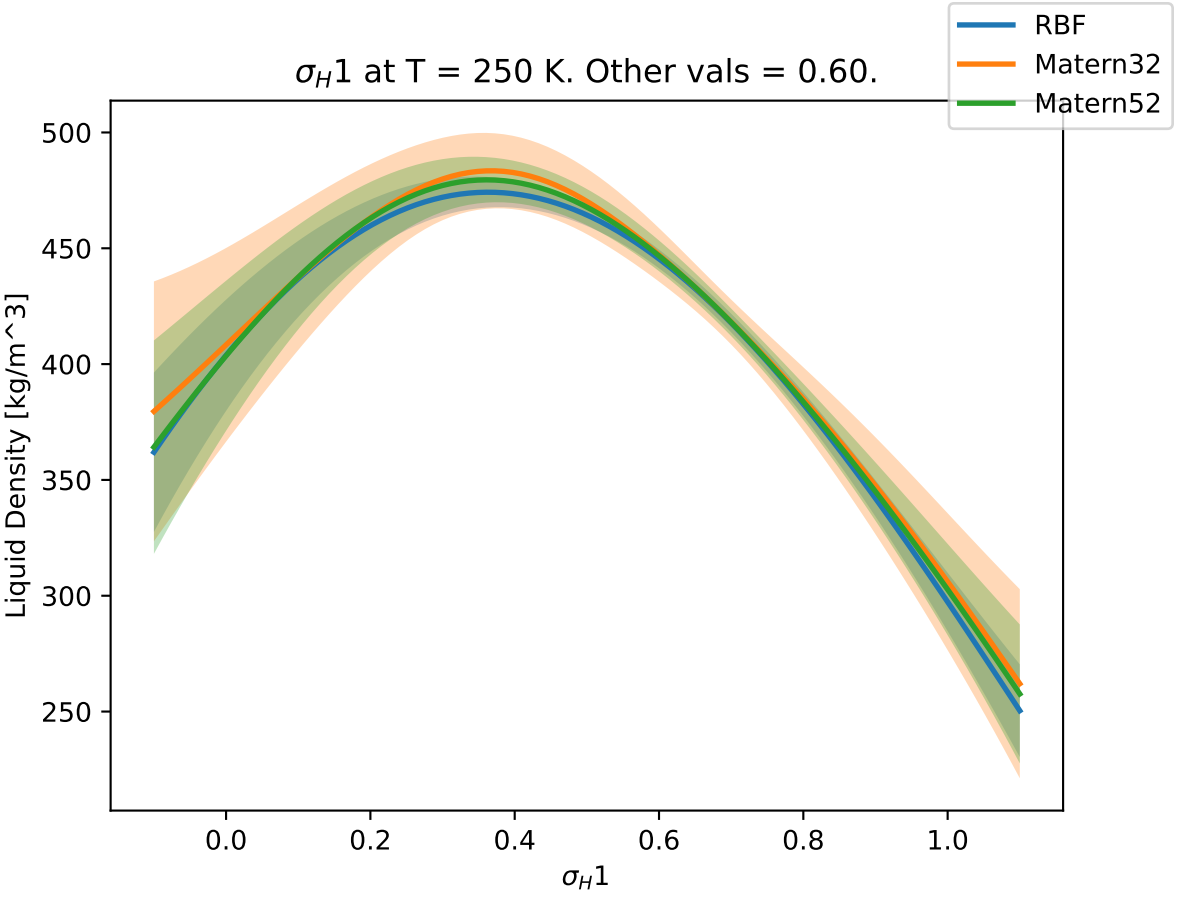

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
200
0
−200
−400
−600
−800
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

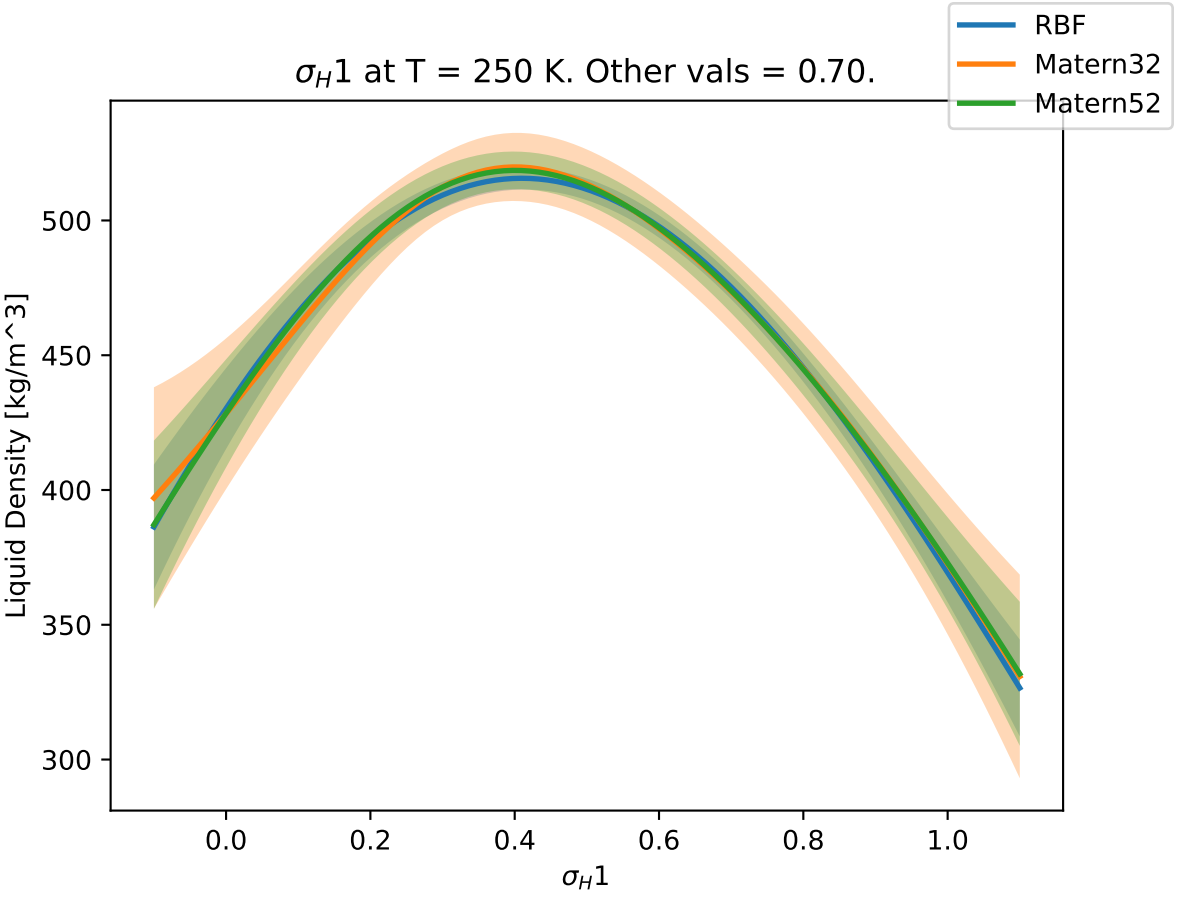

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.20.
Liquid Density [kg/m^3]
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

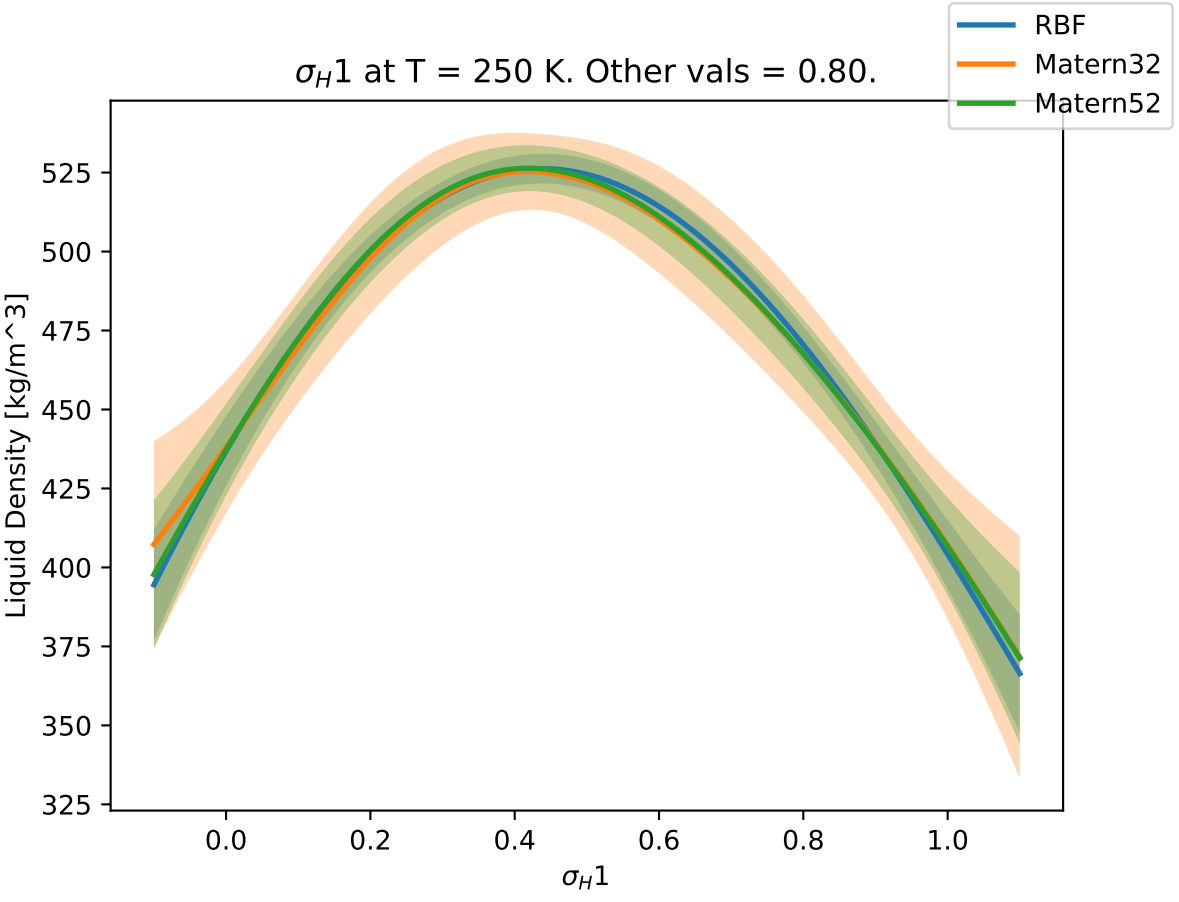

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.30.
Liquid Density [kg/m^3]
300
200
100
0
−100
−200
−300
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

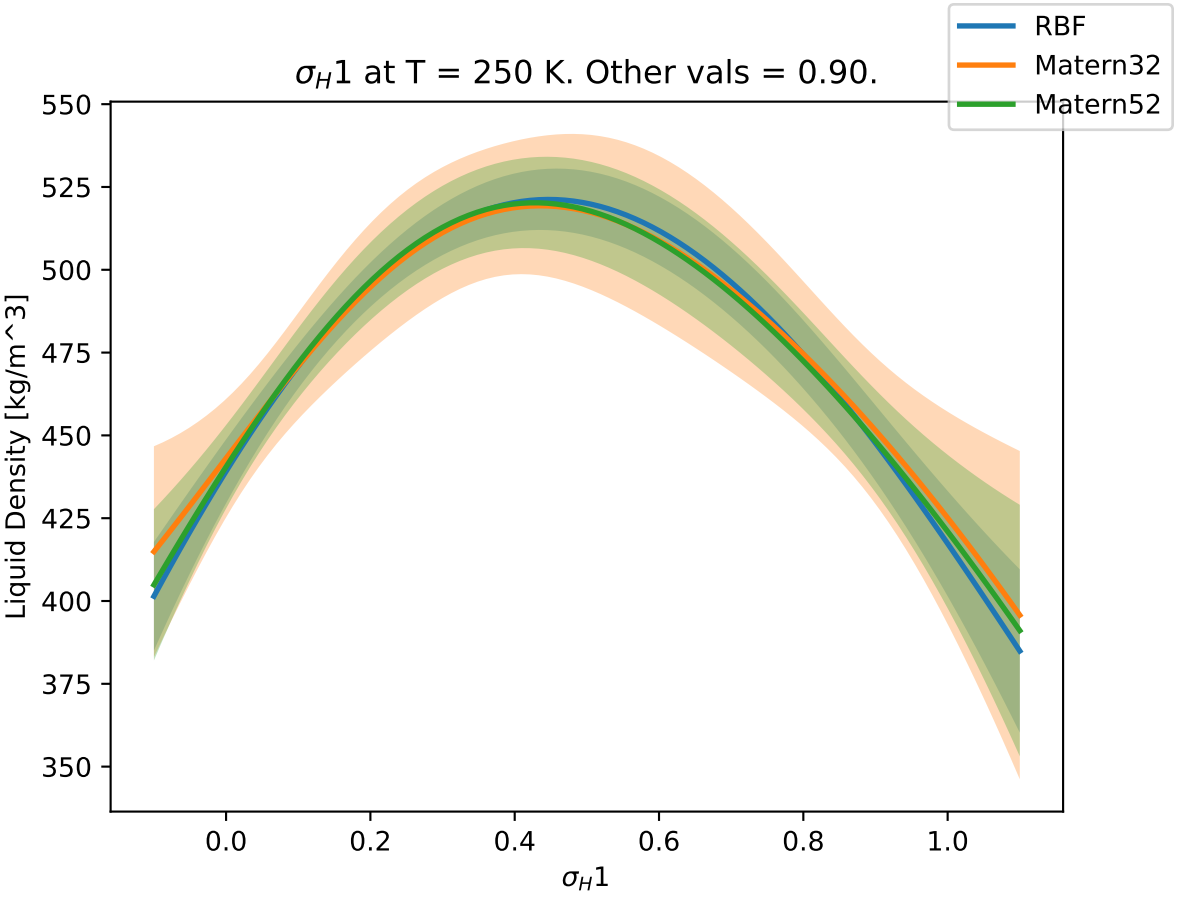

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

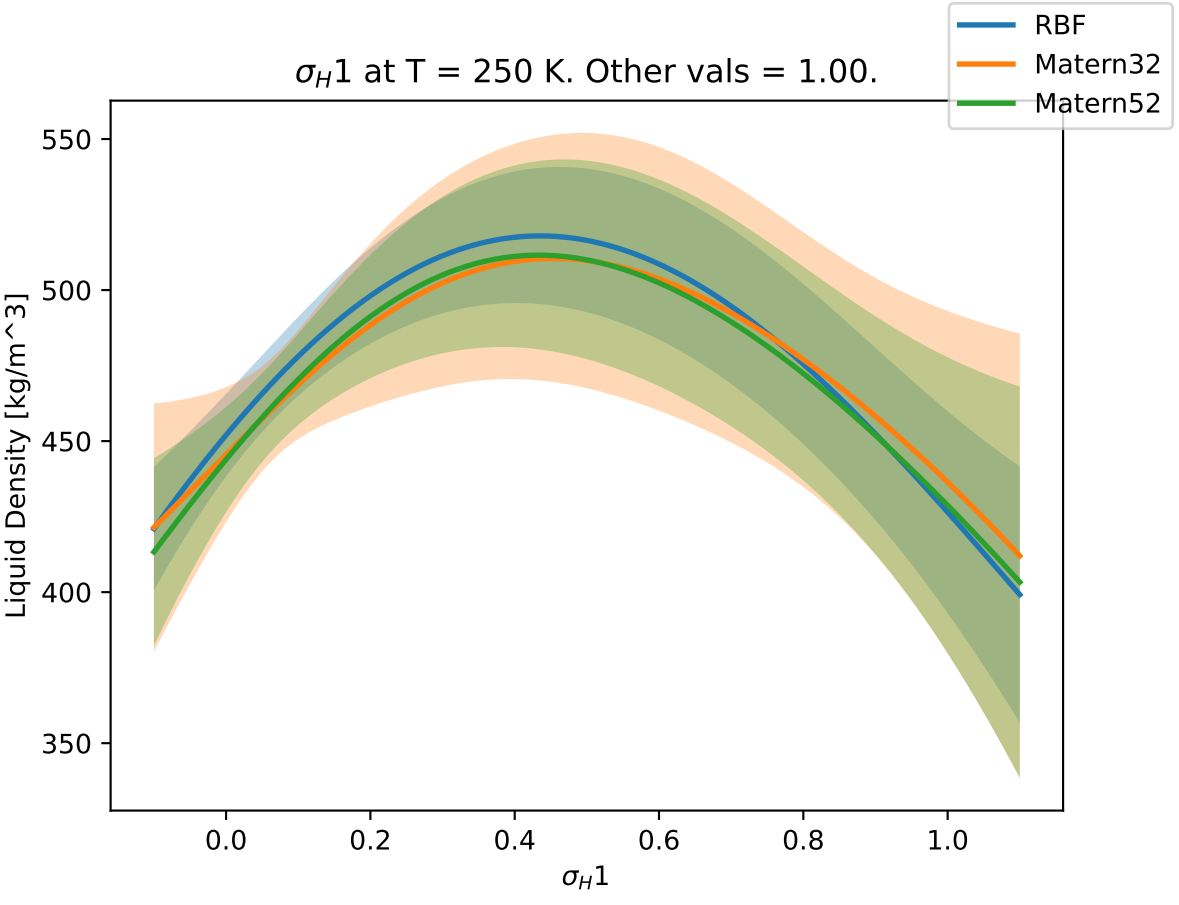

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
450
400
350
300
250
200
150
100
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

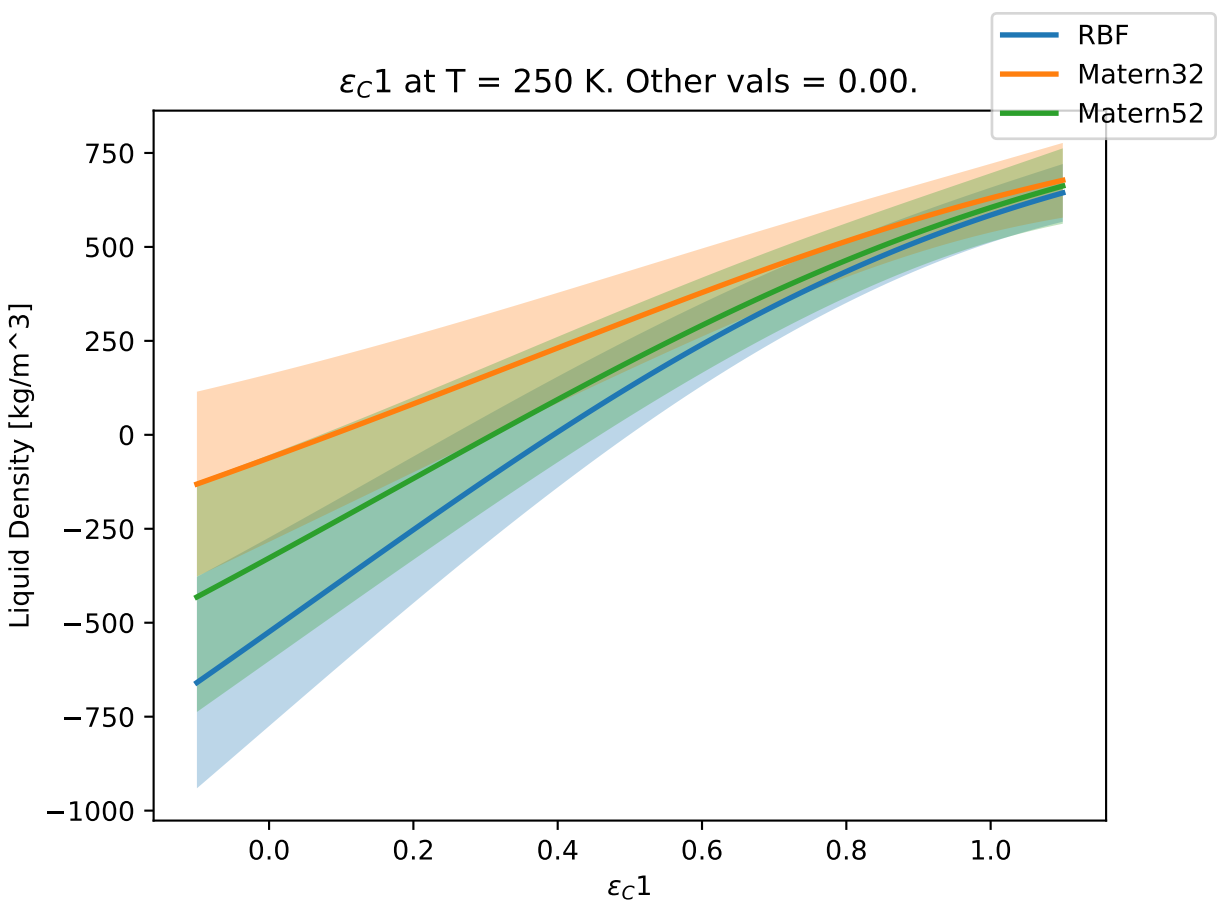

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
500
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

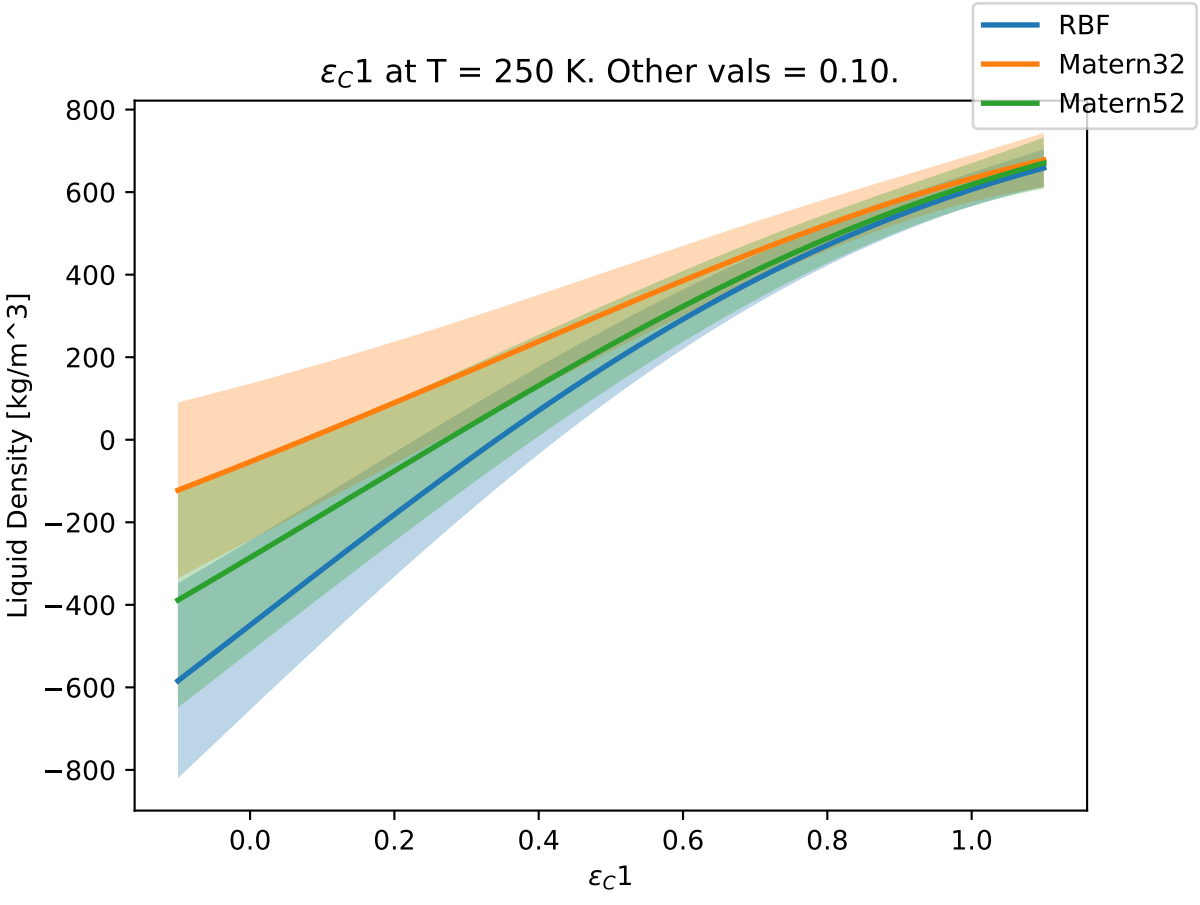

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
500
450
400
350
300
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

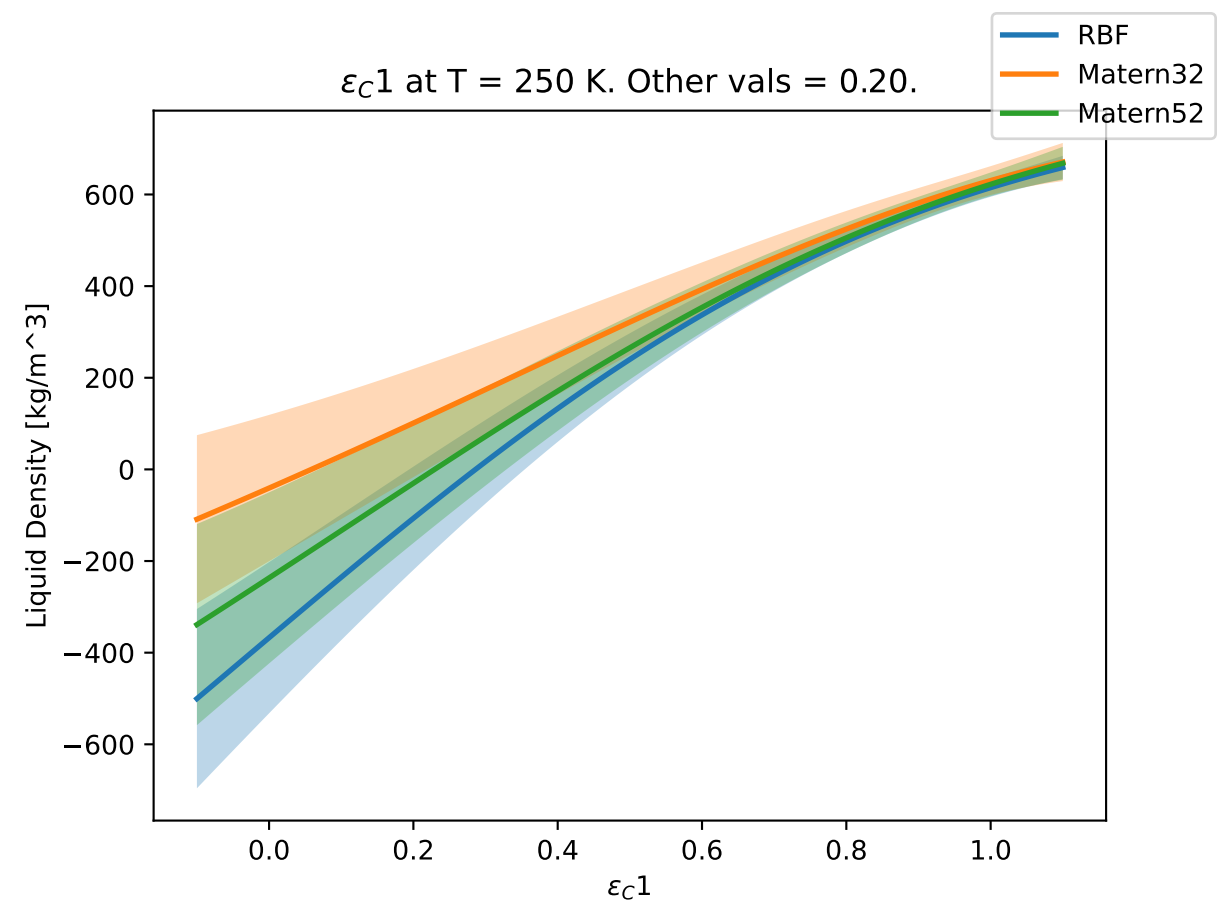

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
525
500
475
450
425
400
375
350
325
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

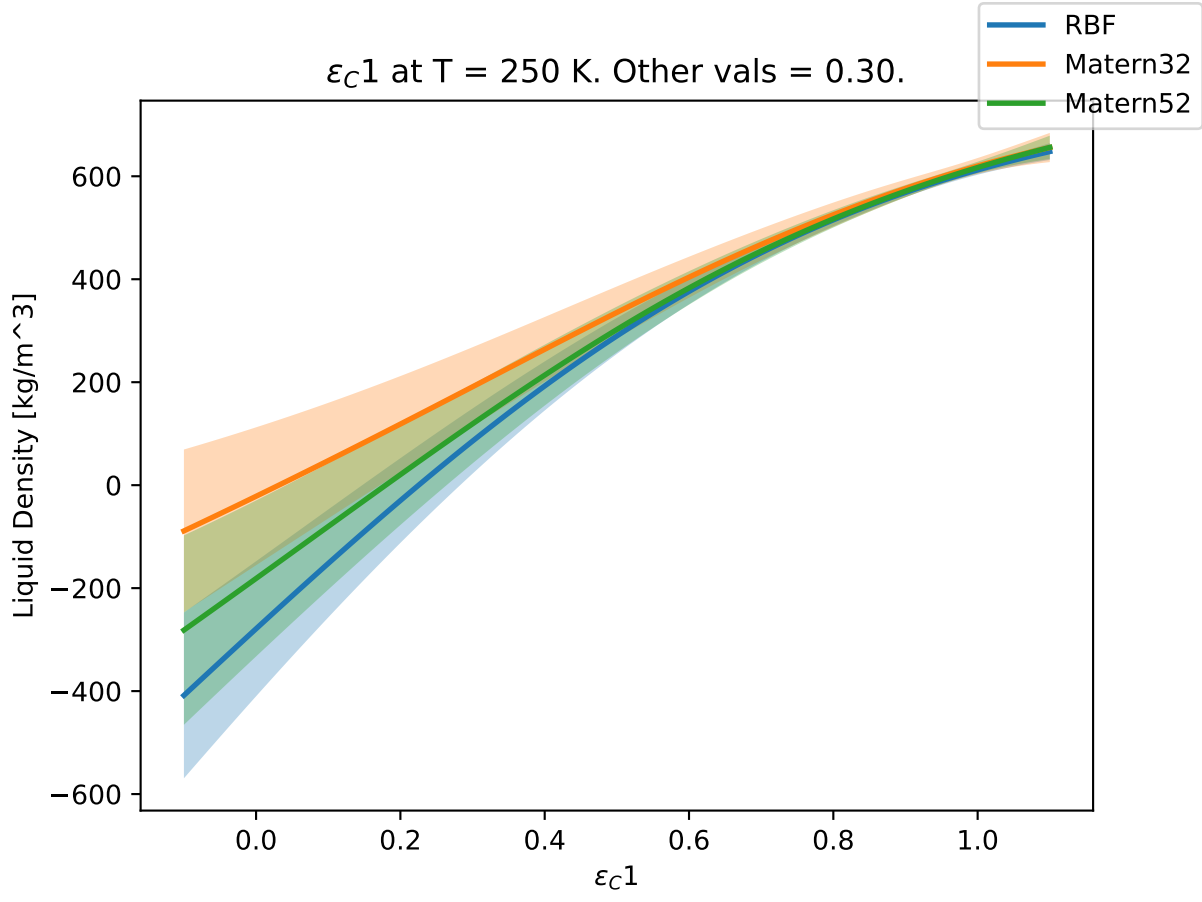

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
550
525
500
475
450
425
400
375
350
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

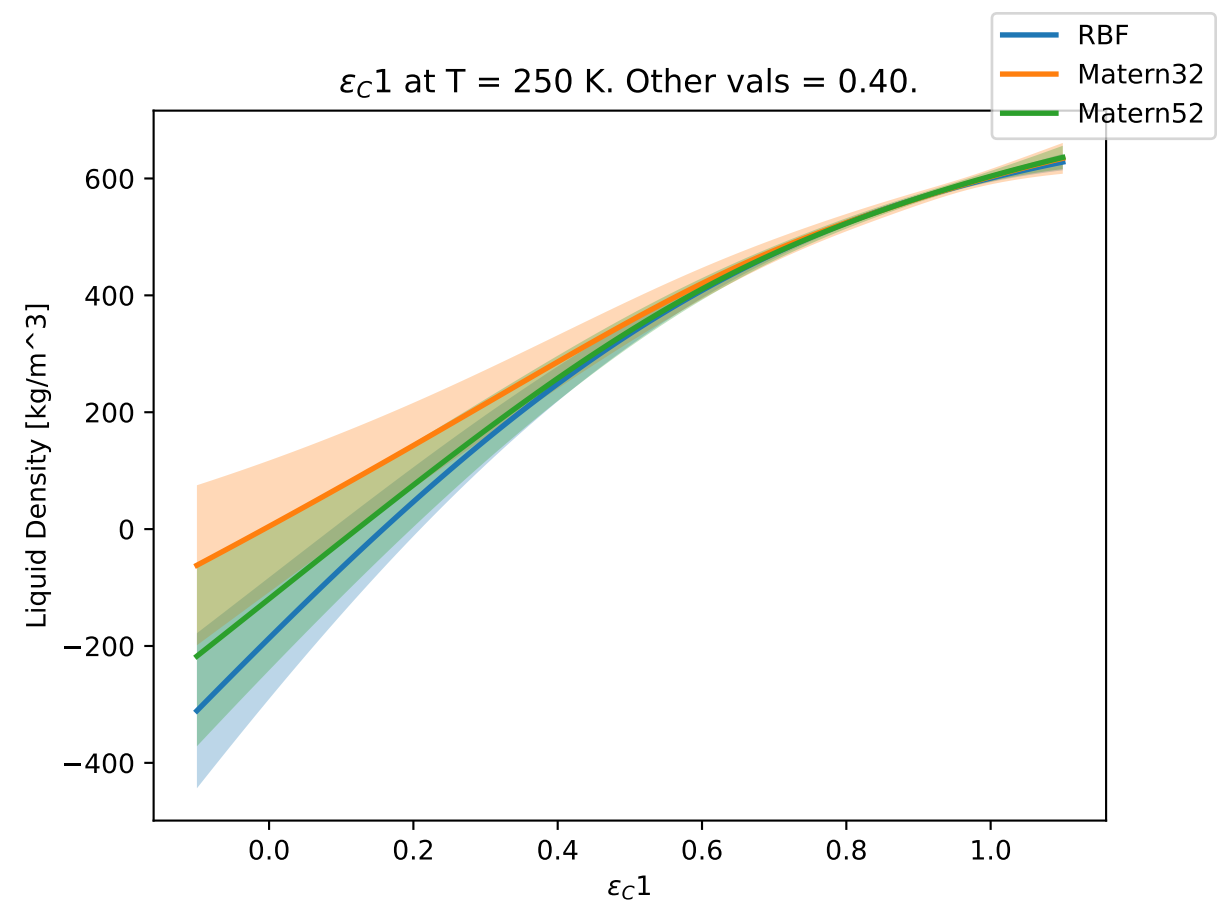

RBF
Matern32
Matern52
σ_H1 at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
550
500
450
400
350
0.0
0.2
0.4
0.6
0.8
1.0
σ_H1

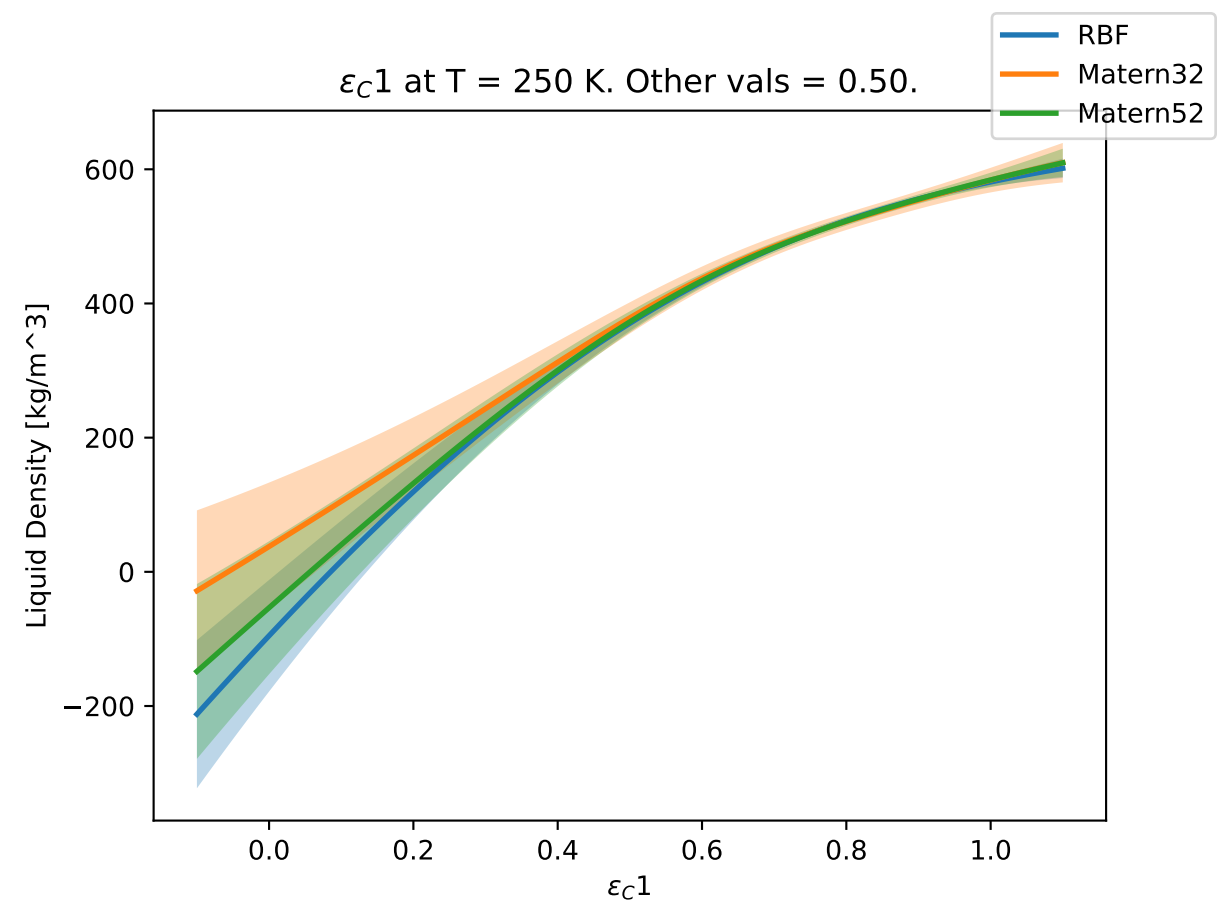

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.00.
Liquid Density [kg/m^3]
750
500
250
0
−250
−500
−750
−1000
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

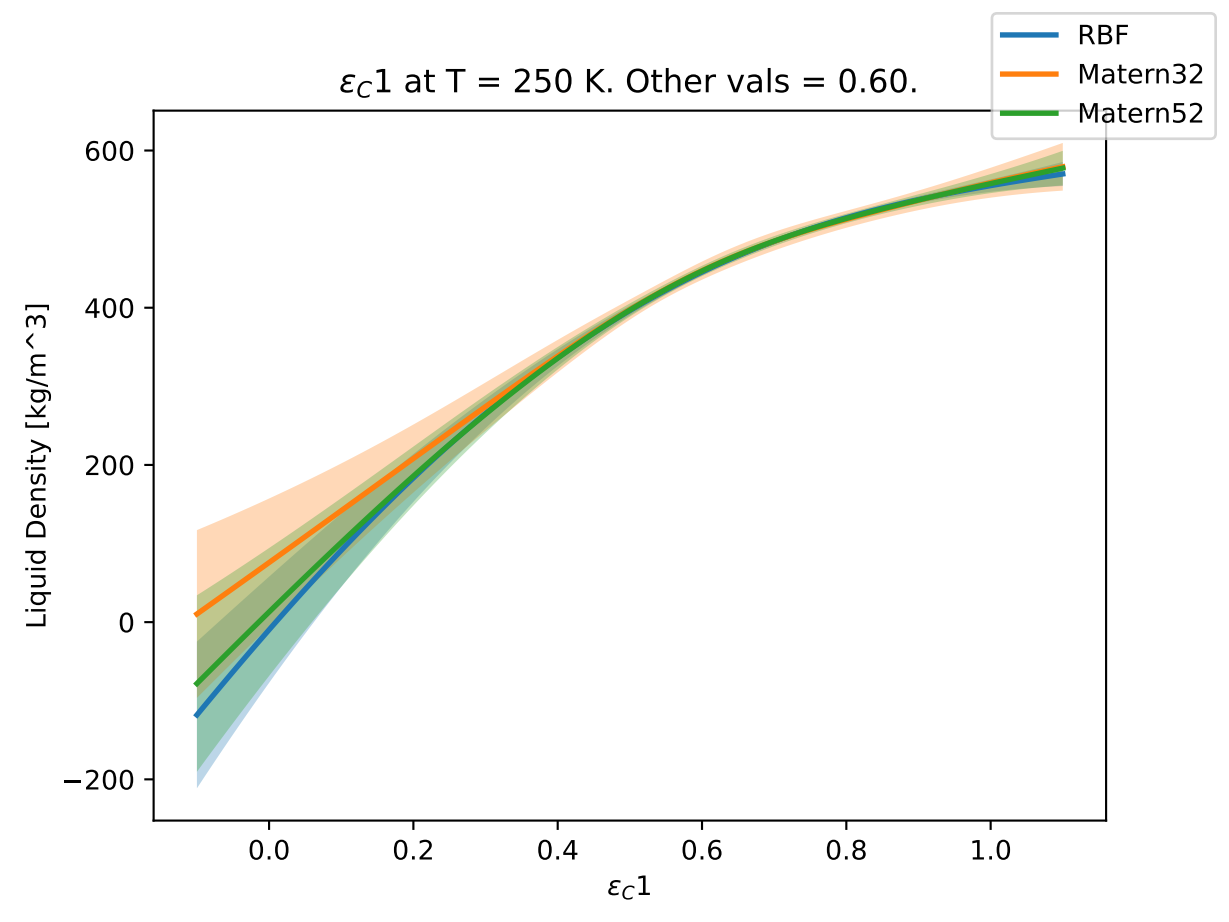

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
800
600
400
200
0
−200
−400
−600
−800
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

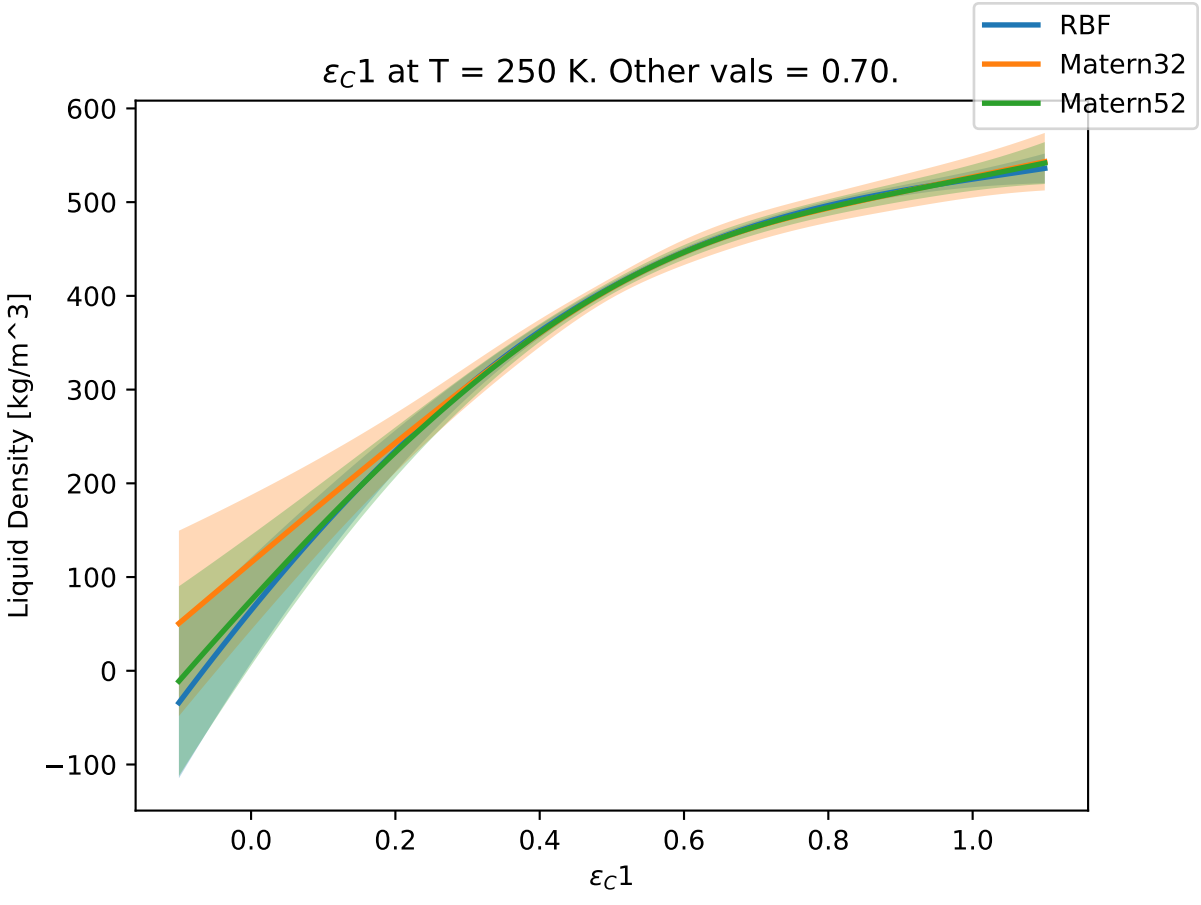

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.20.
Liquid Density [kg/m^3]
600
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

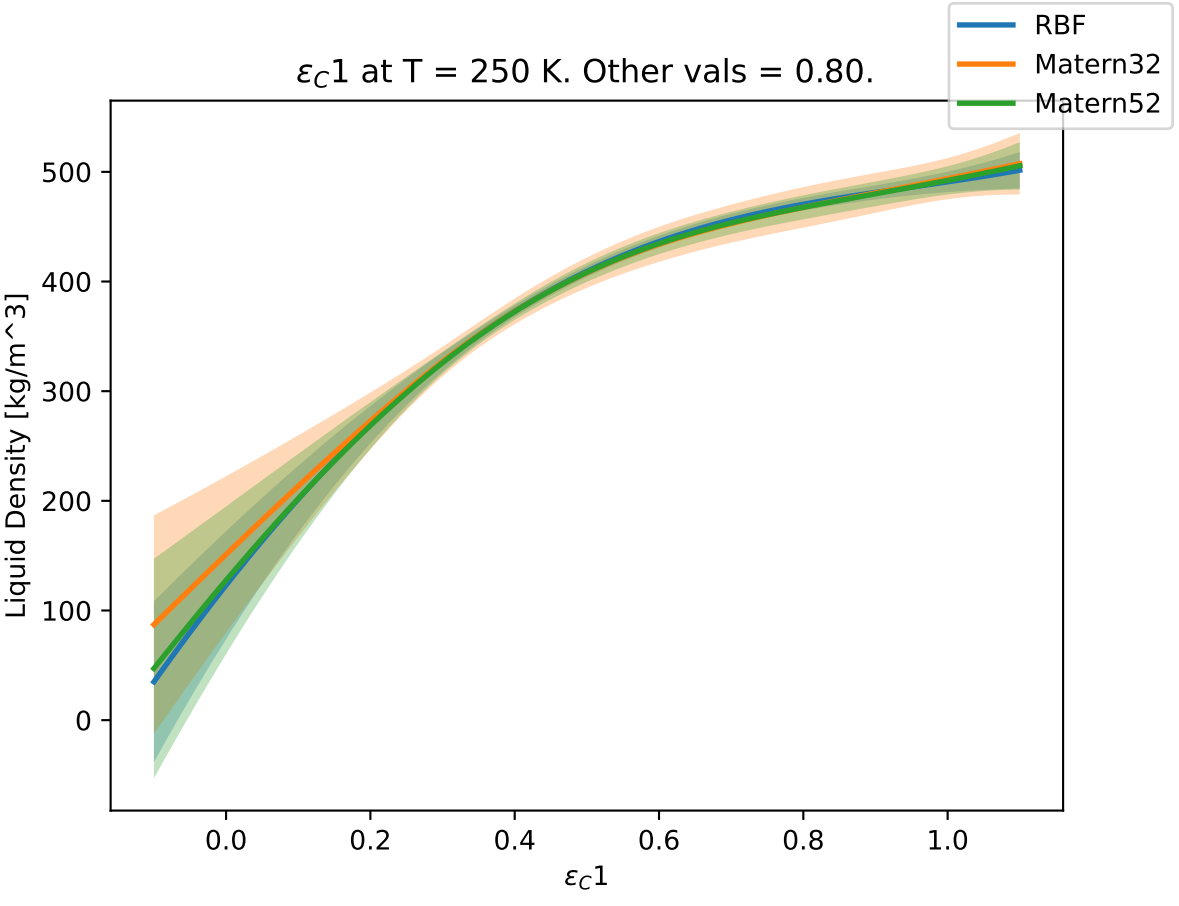

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.30.
Liquid Density [kg/m^3]
600
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

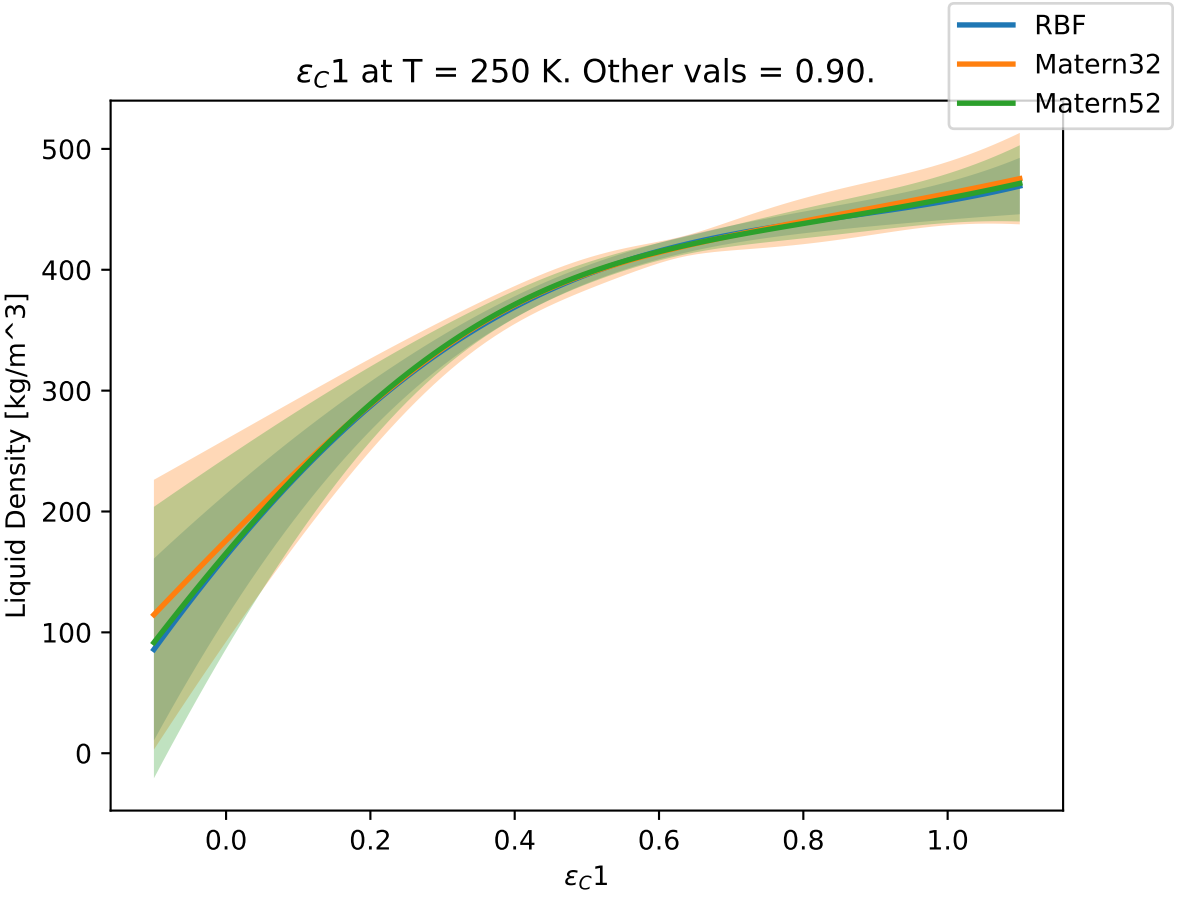

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
600
400
200
0
−200
−400
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

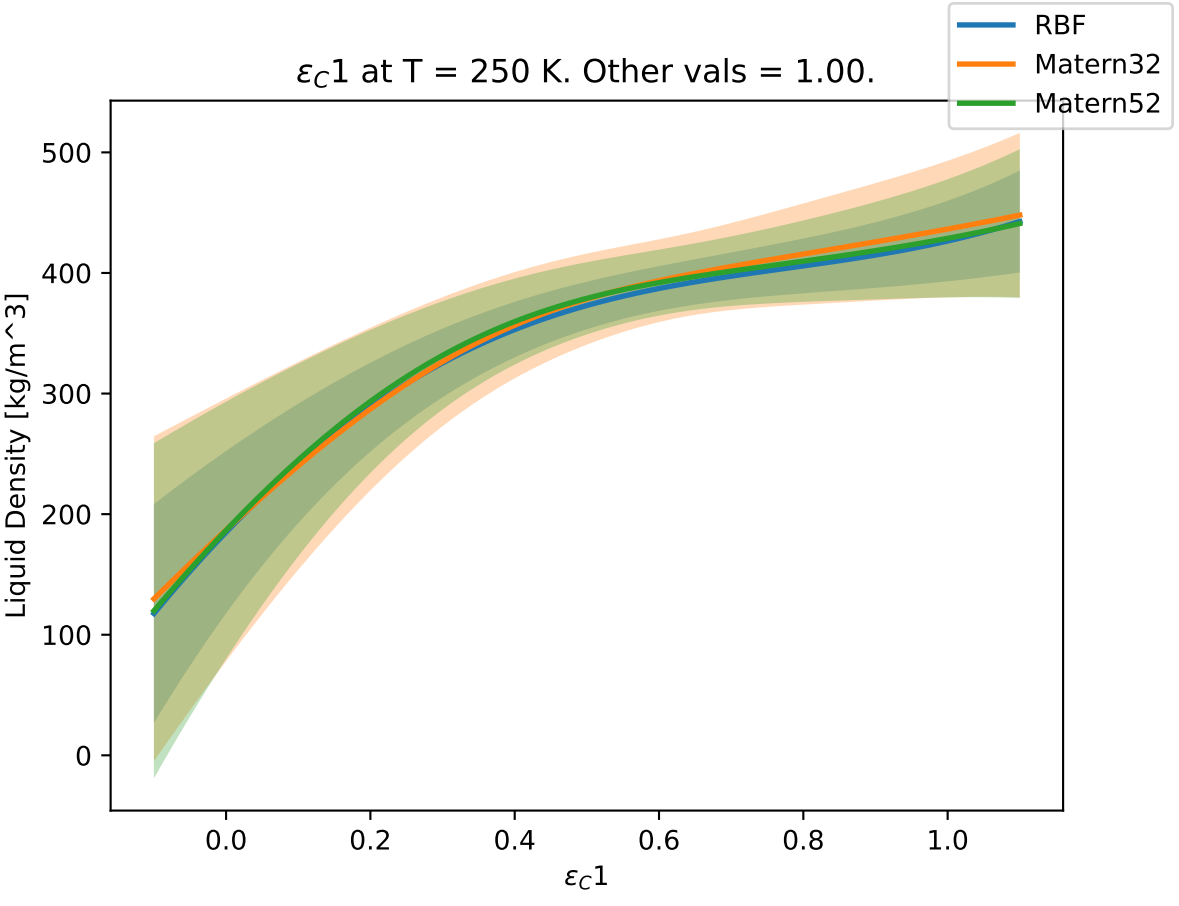

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
600
400
200
0
−200
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

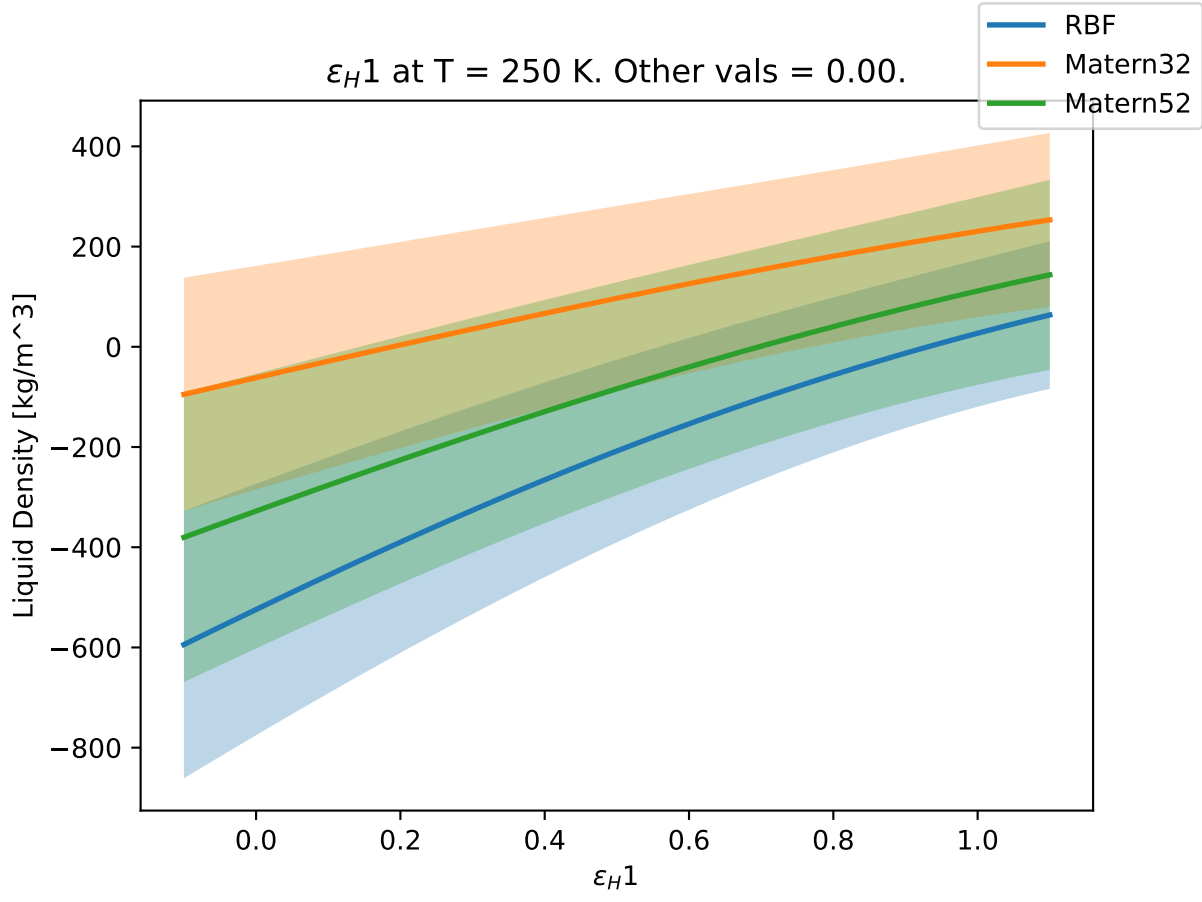

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
600
400
200
0
−200
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

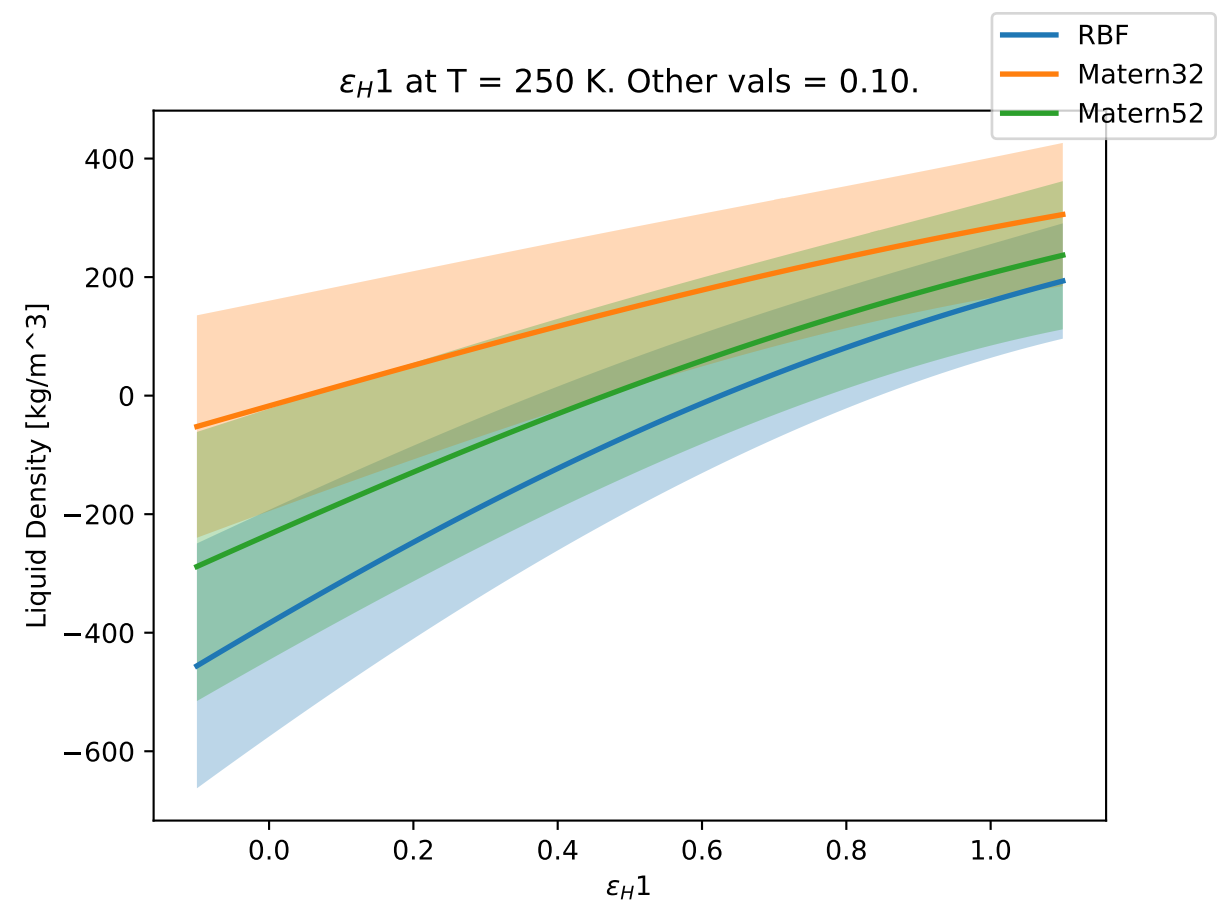

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
600
500
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

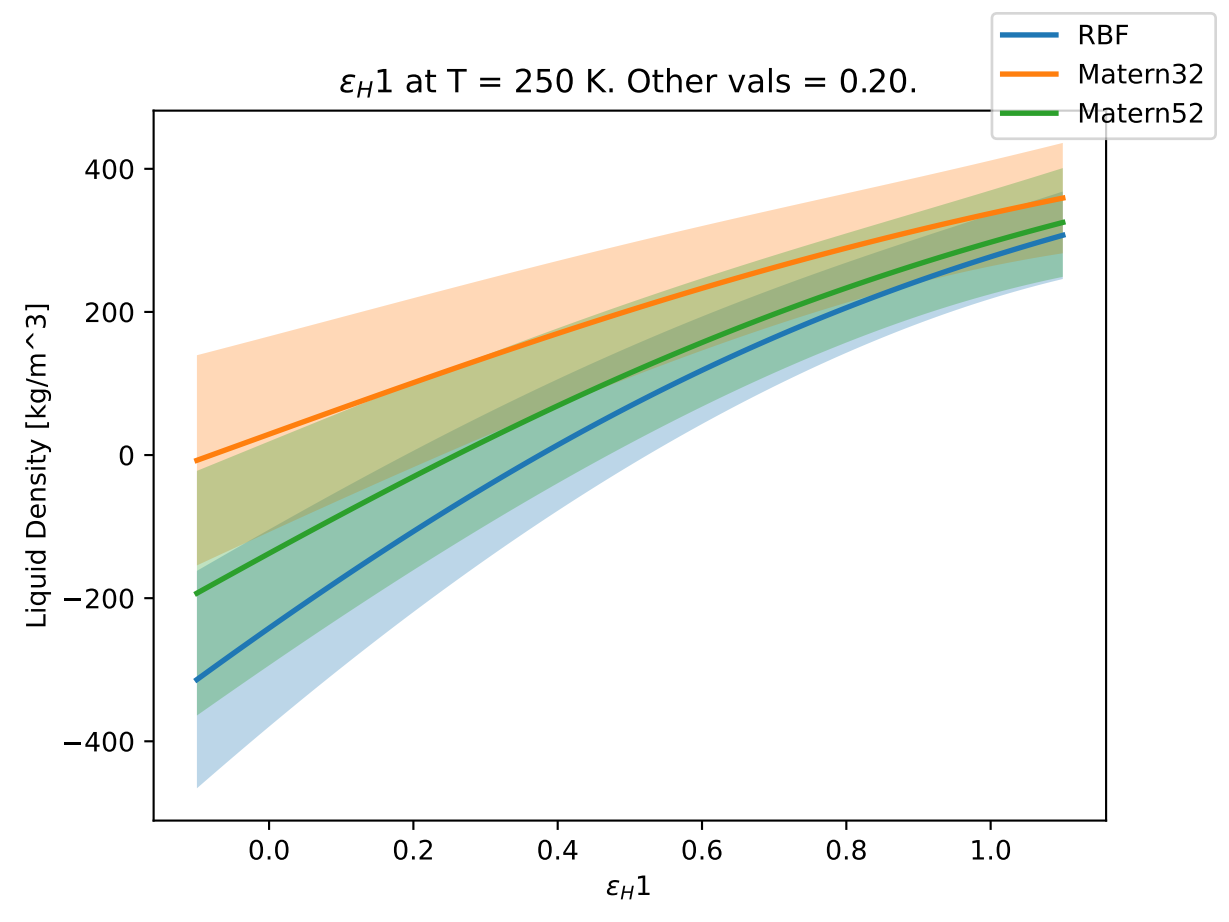

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
500
400
300
200
100
0
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

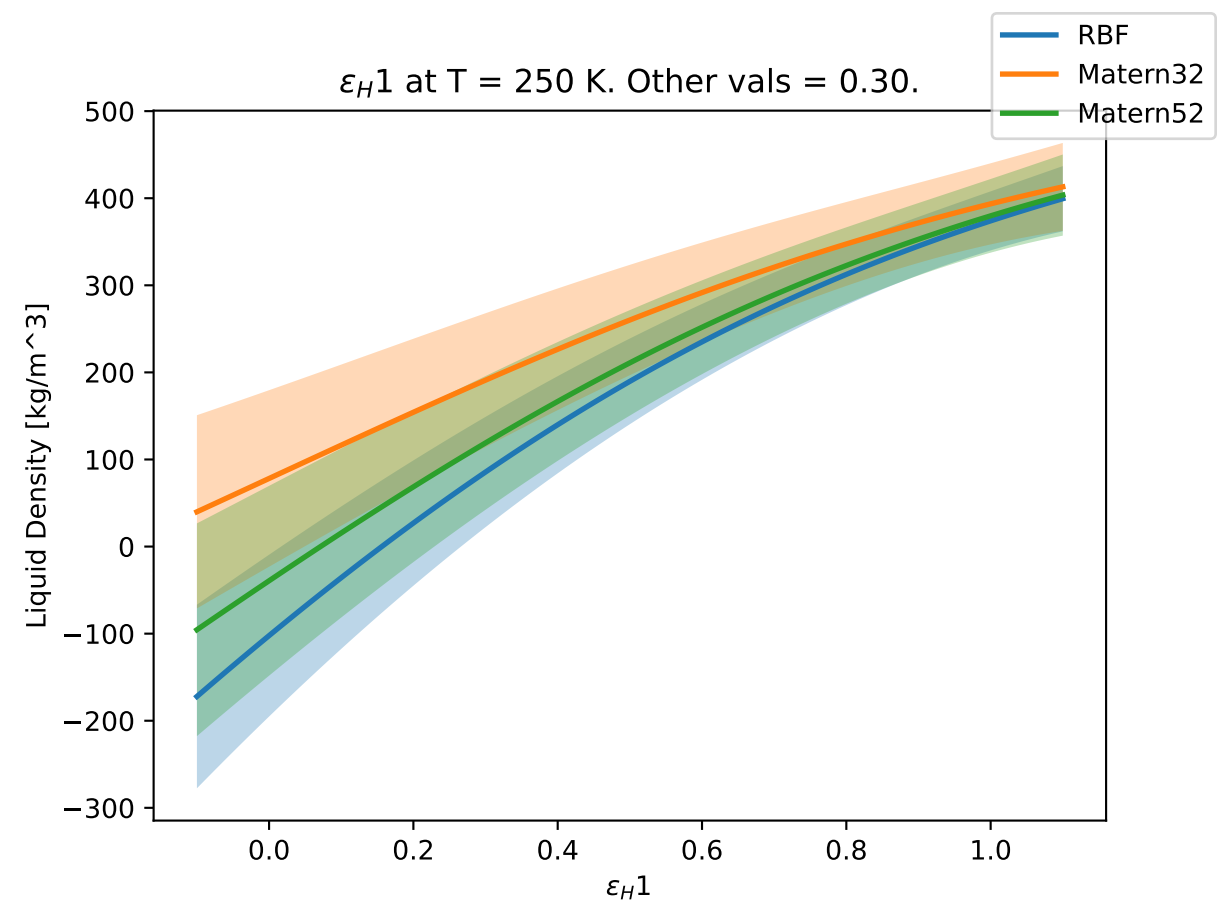

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
500
400
300
200
100
0
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

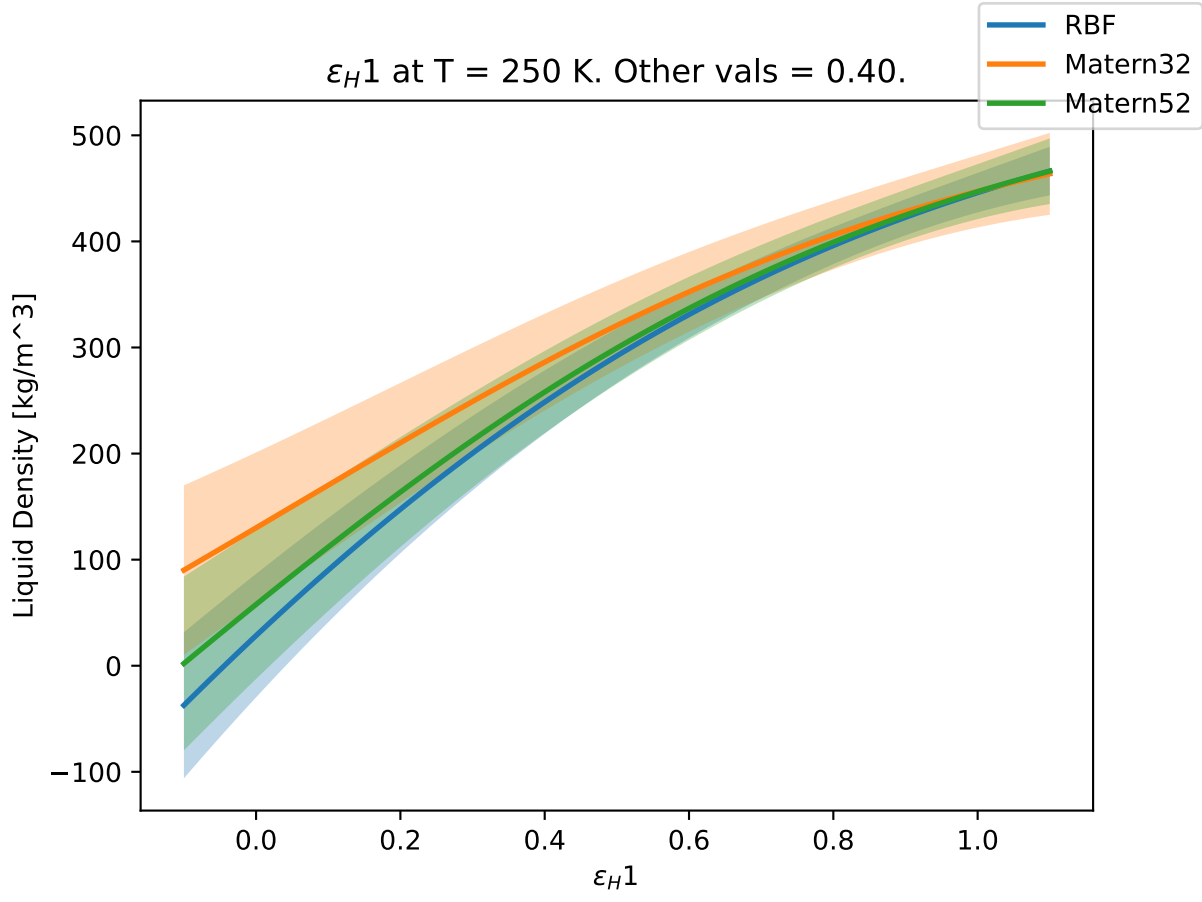

RBF
Matern32
Matern52
ε_C1 at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
500
400
300
200
100
0
0.0
0.2
0.4
0.6
0.8
1.0
ε_C1

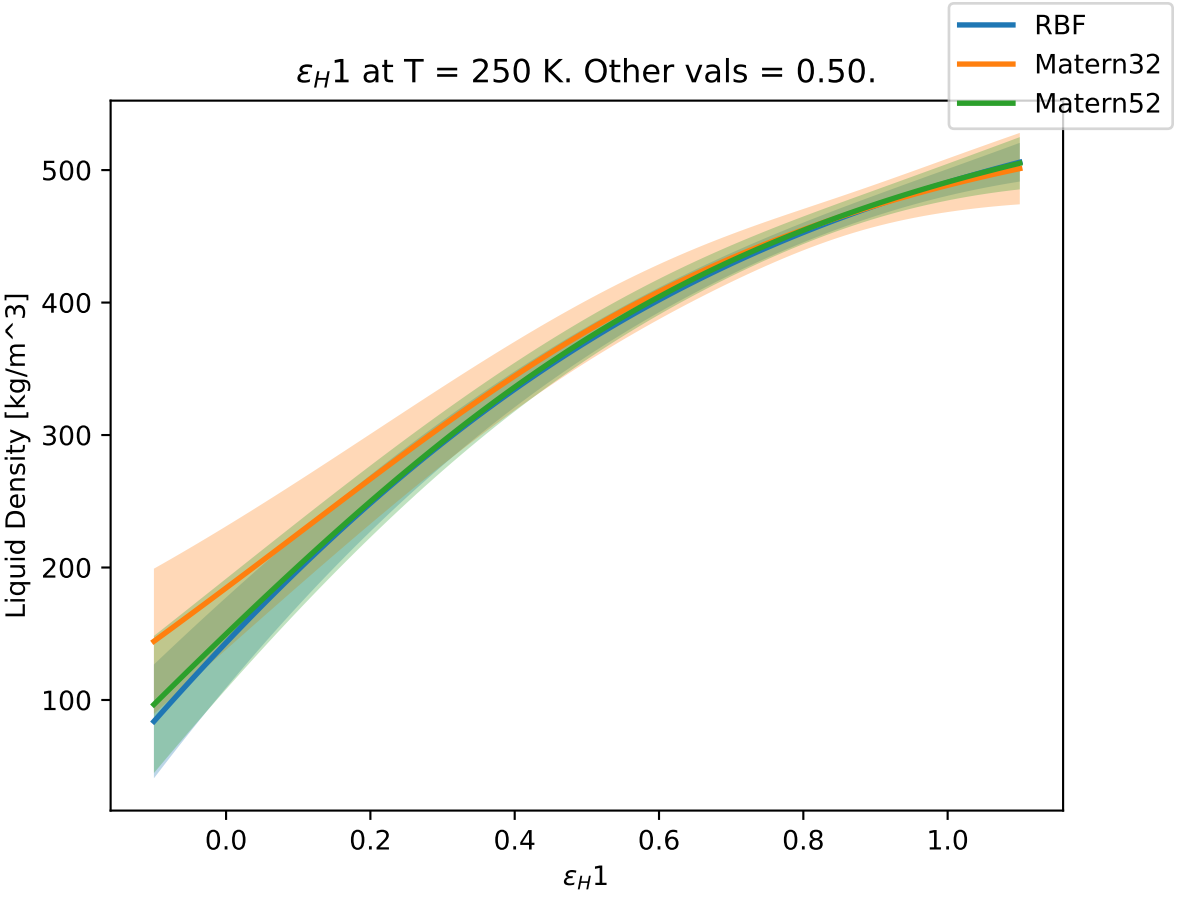

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.00.
Liquid Density [kg/m^3]
400
200
0
−200
−400
−600
−800
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

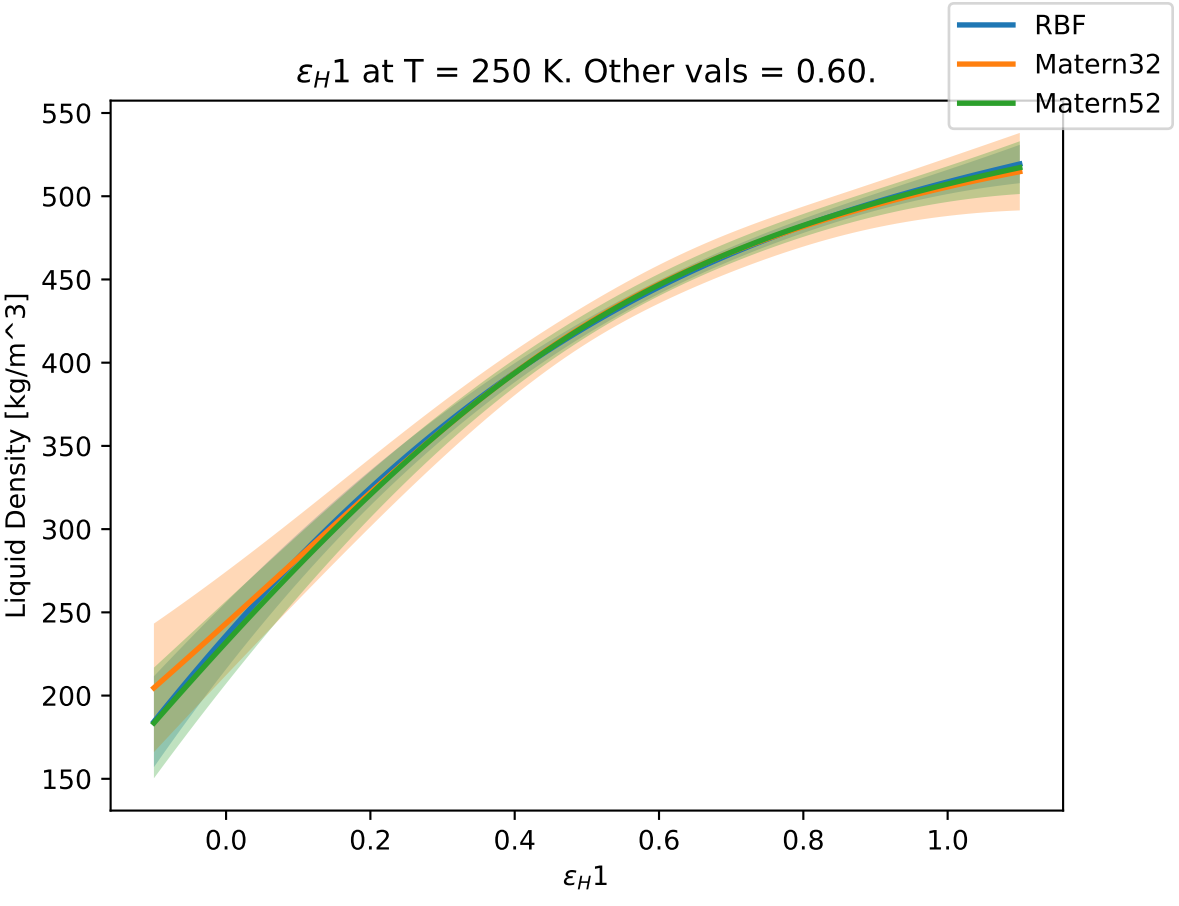

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.10.
Liquid Density [kg/m^3]
400
200
0
−200
−400
−600
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

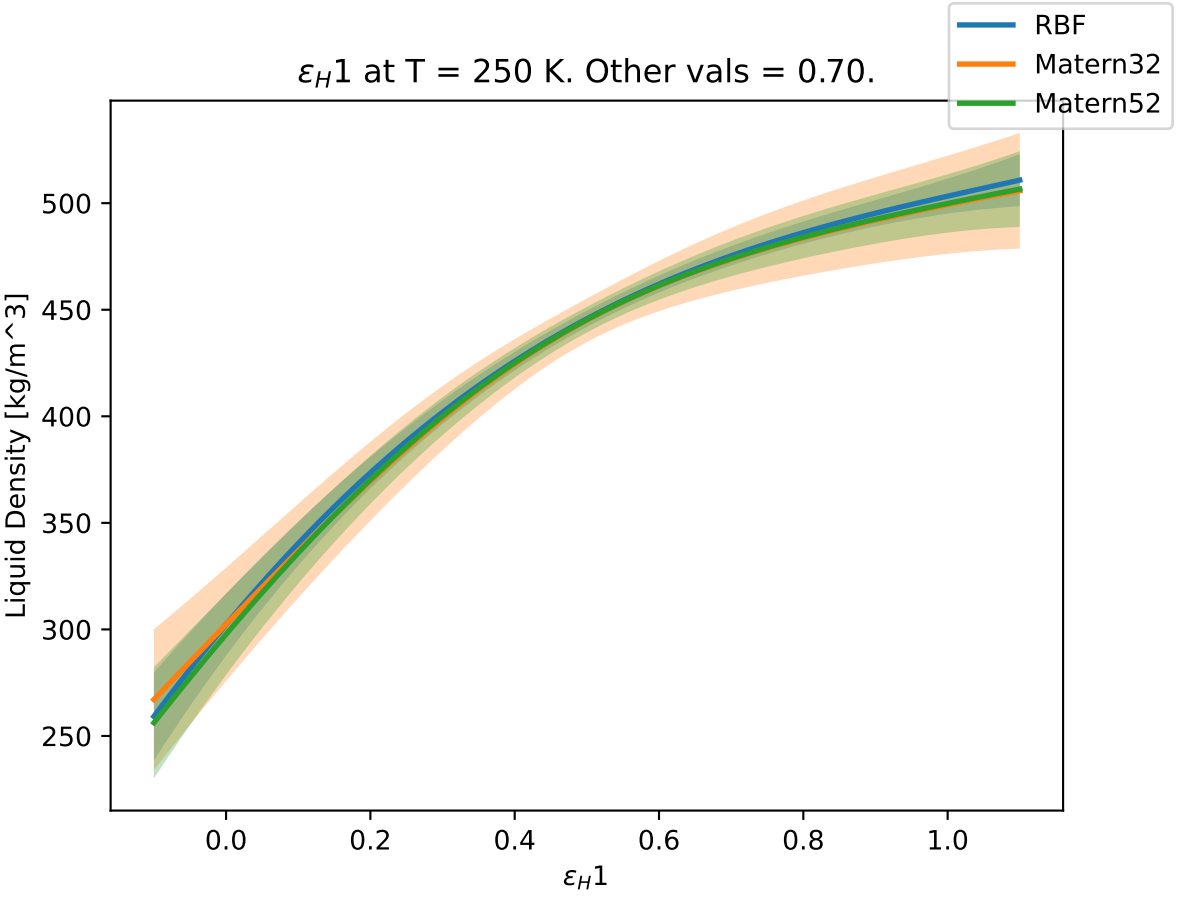

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.20.
Liquid Density [kg/m^3]
400
200
0
−200
−400
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

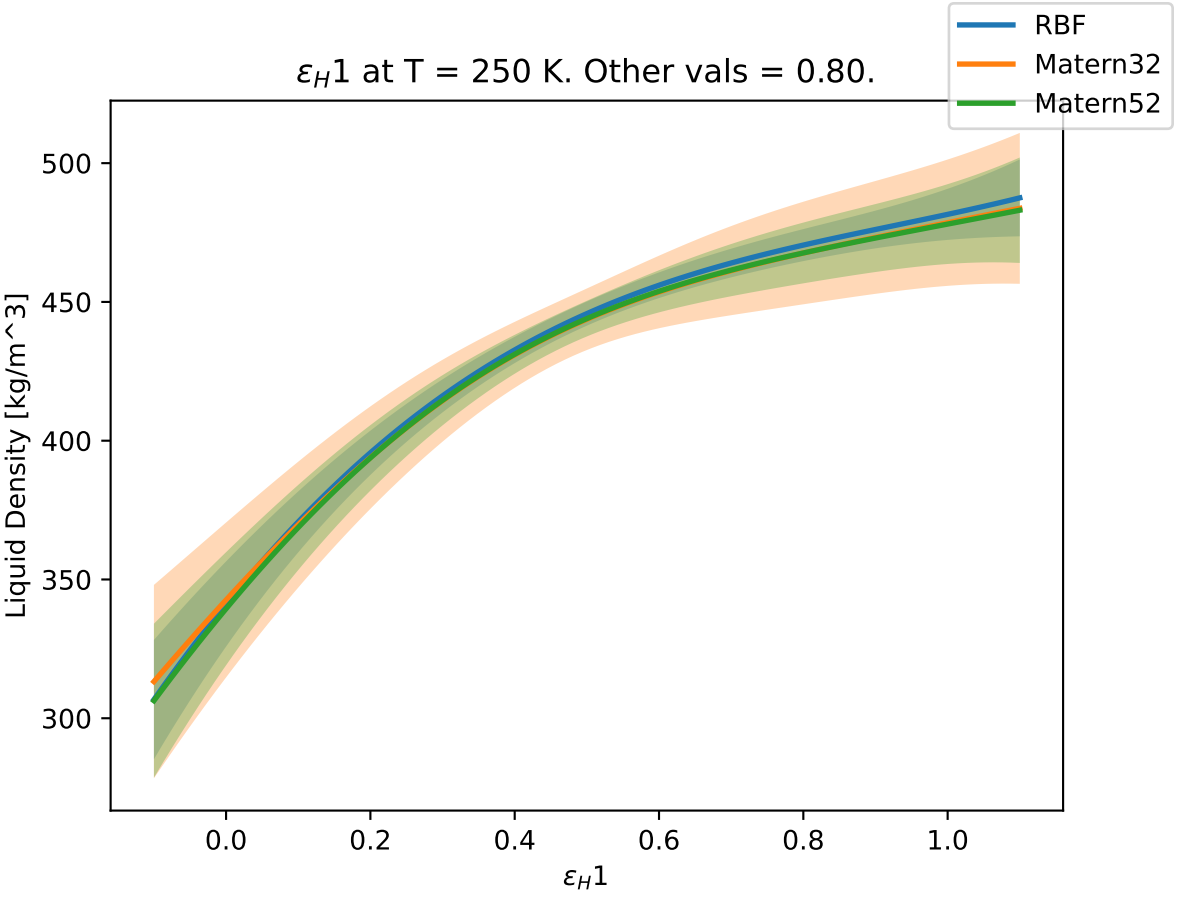

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.30.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
−200
−300
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

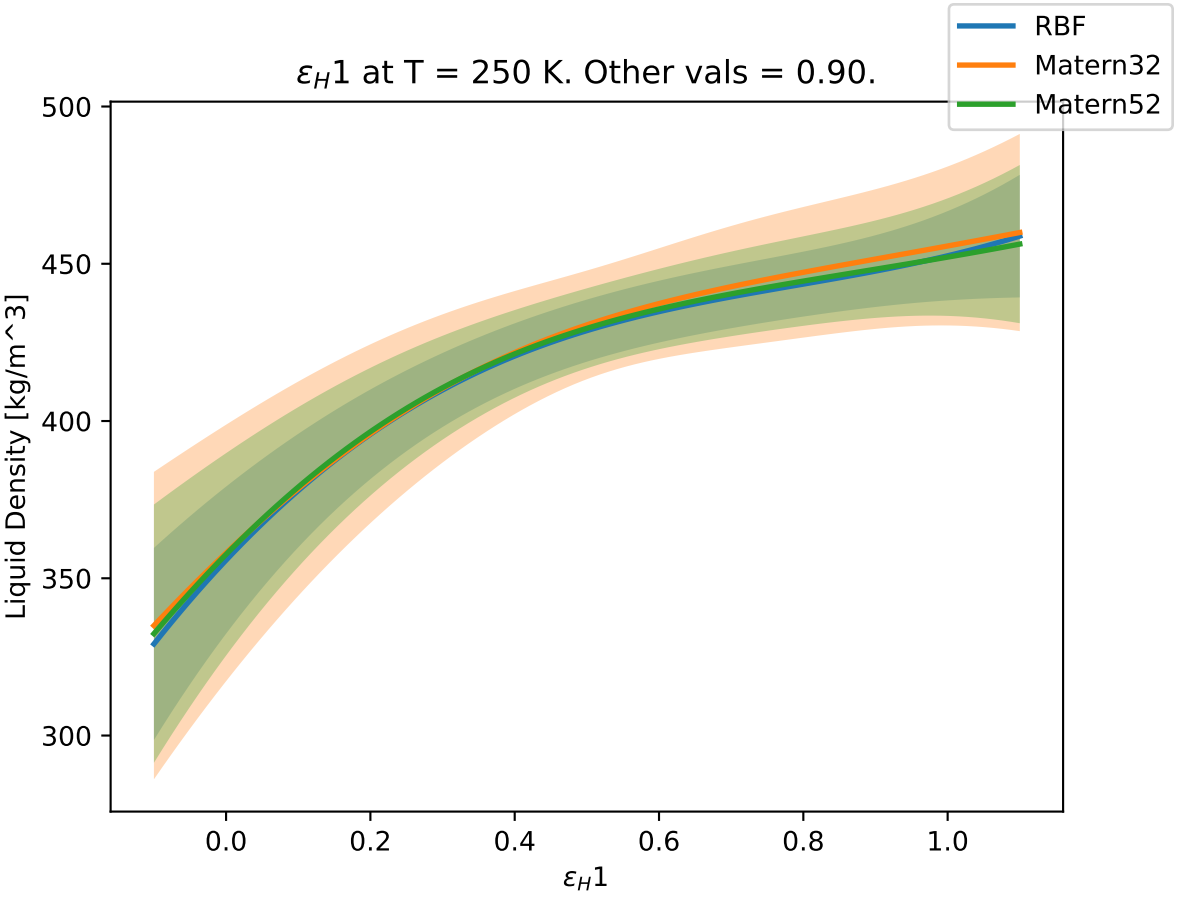

RBF
Matern32
Matern52
$\varepsilon_H 1$ at T = 250 K. Other vals = 0.40.
Liquid Density [kg/m^3]
500
400
300
200
100
0
−100
0.0
0.2
0.4
0.6
0.8
1.0
$\varepsilon_H 1$

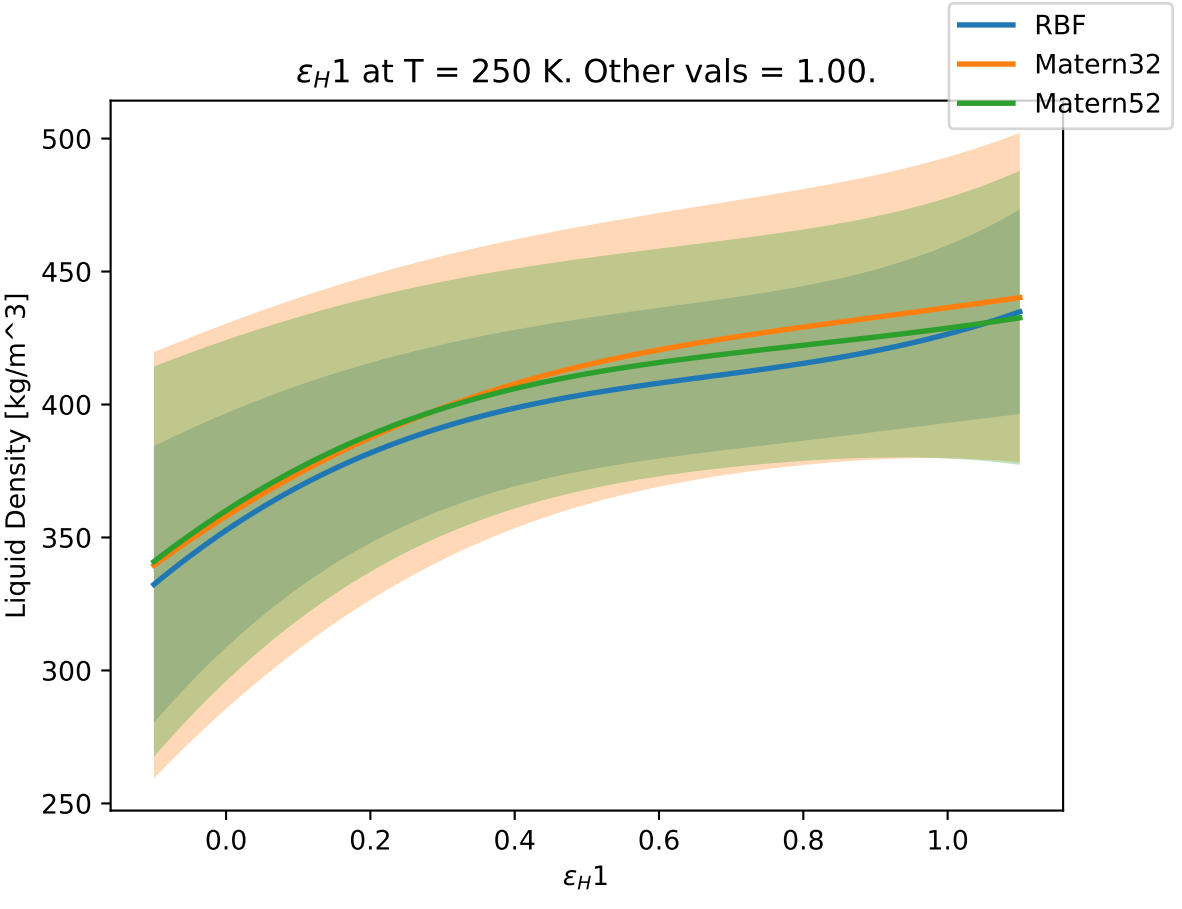

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.50.
Liquid Density [kg/m^3]
100
200
300
400
500
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

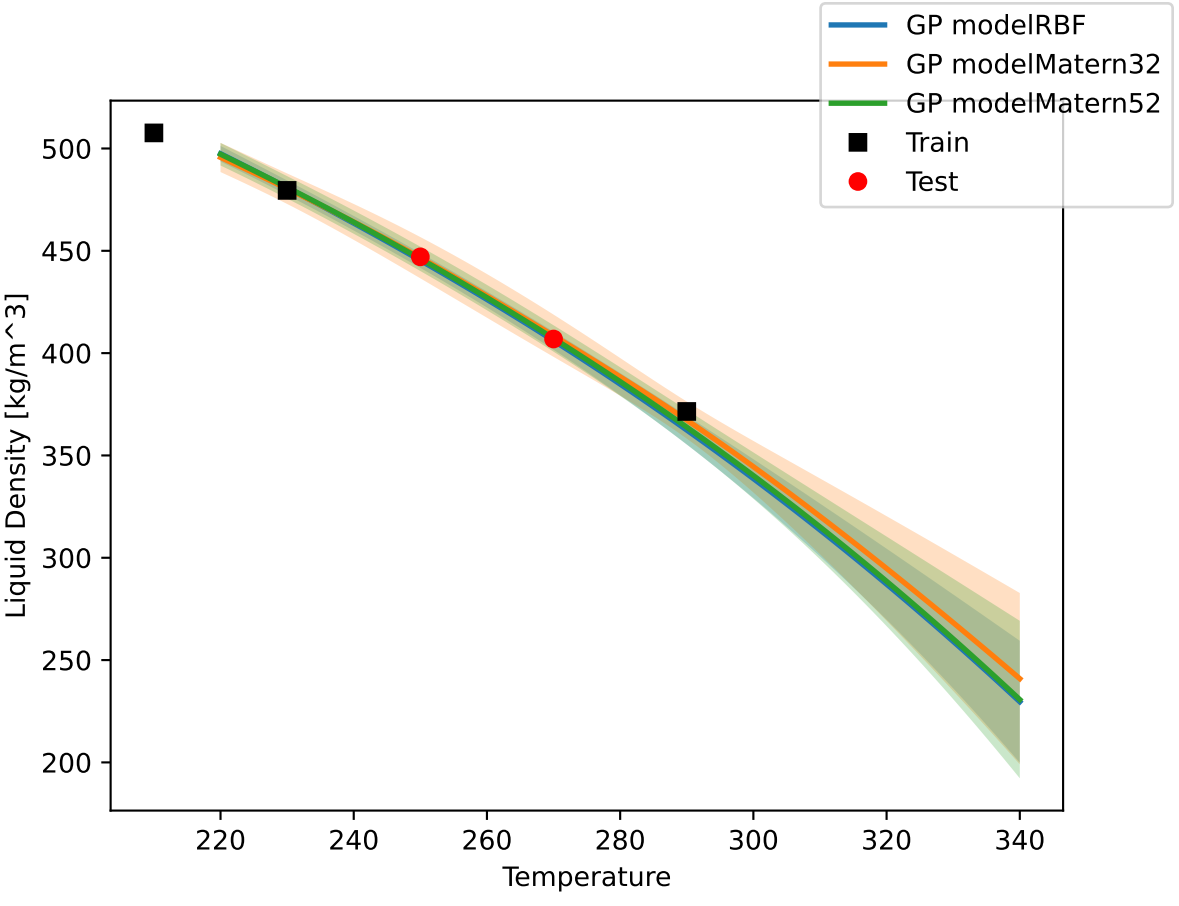

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.60.
Liquid Density [kg/m^3]
550
500
450
400
350
300
250
200
150
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

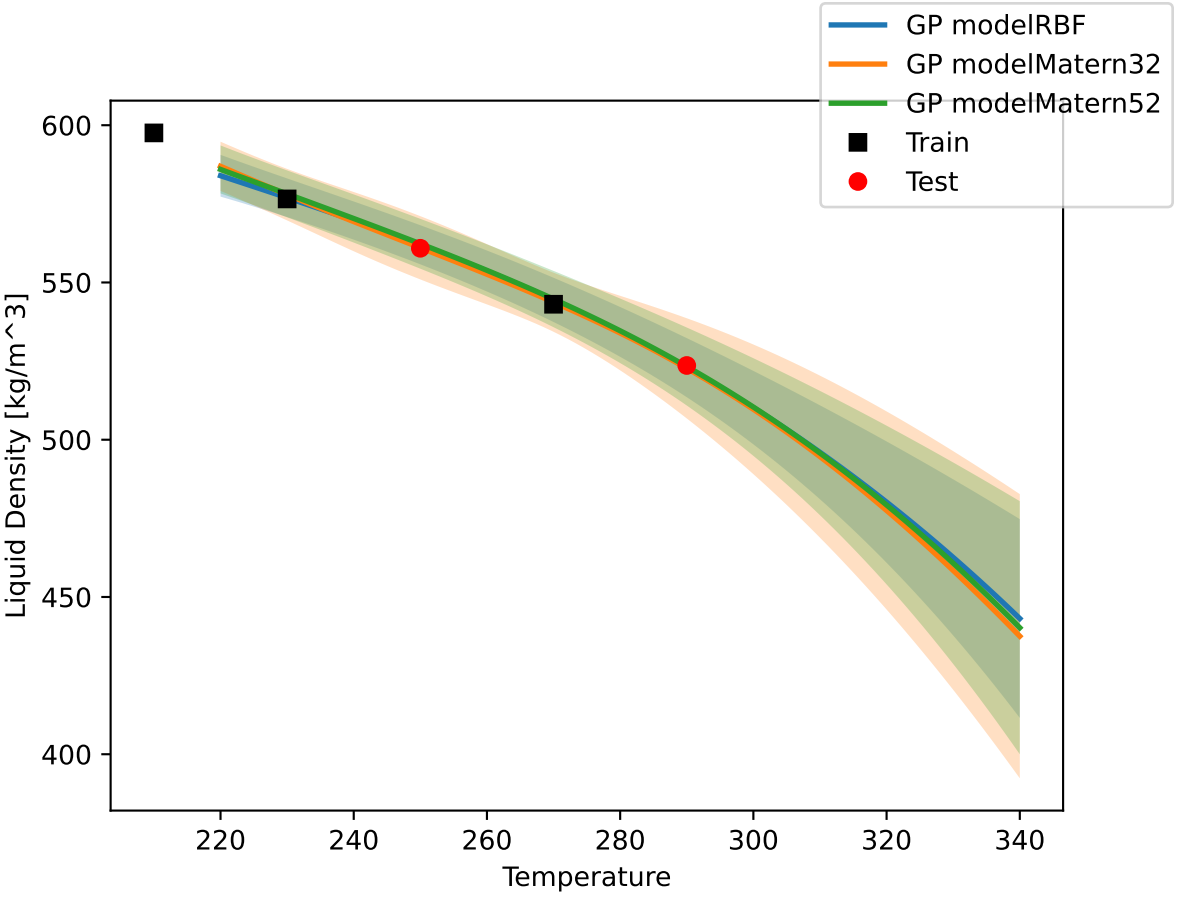

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.70.
Liquid Density [kg/m^3]
500
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

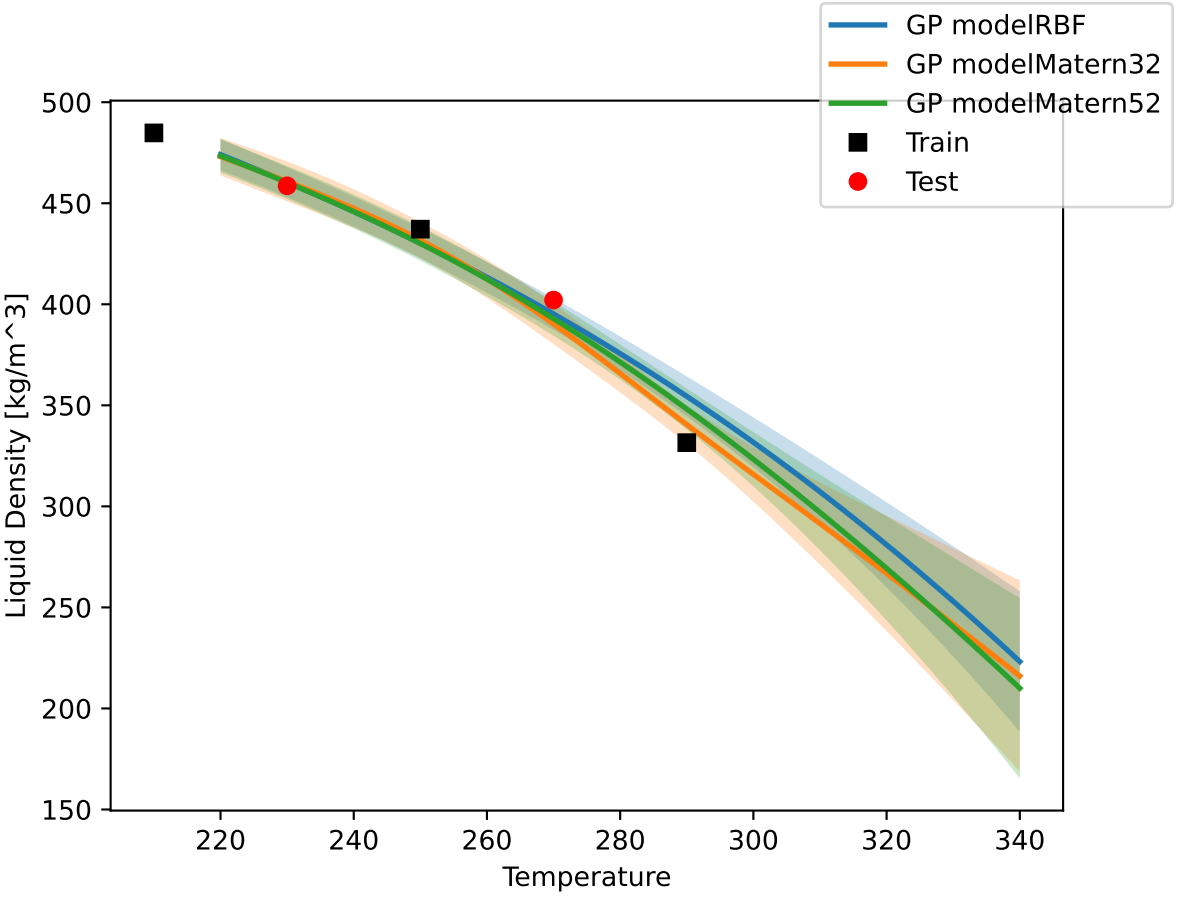

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.80.
Liquid Density [kg/m^3]
500
450
400
350
300
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

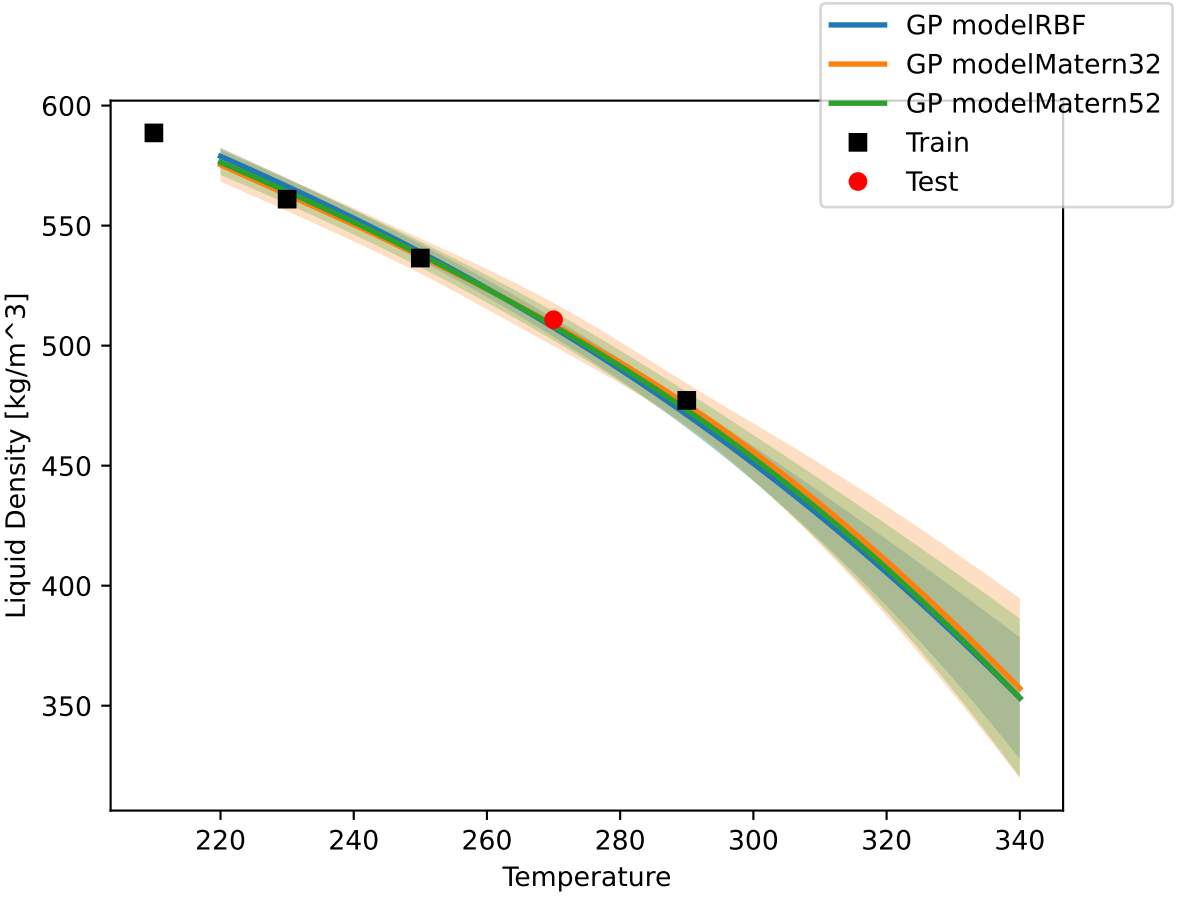

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 0.90.
Liquid Density [kg/m^3]
500
450
400
350
300
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

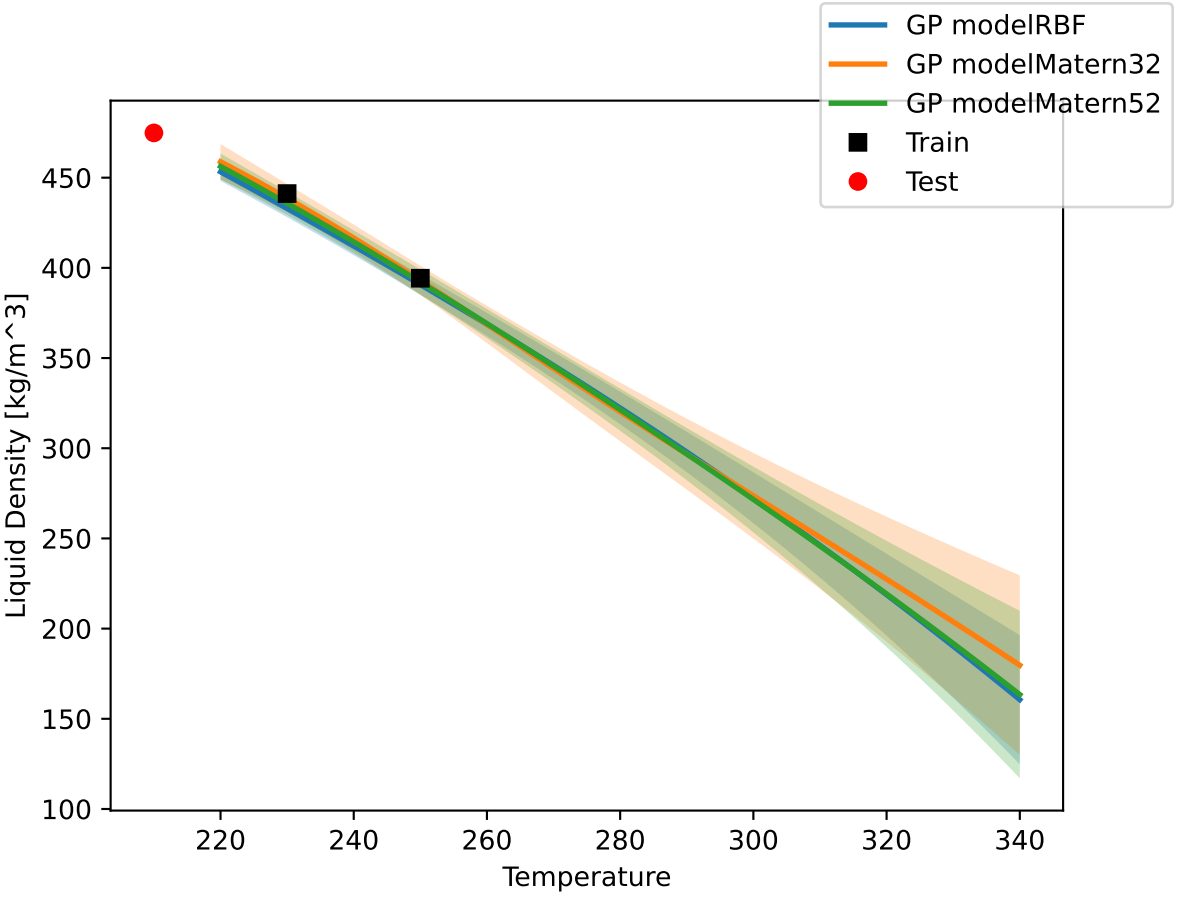

RBF
Matern32
Matern52
ε_H1 at T = 250 K. Other vals = 1.00.
Liquid Density [kg/m^3]
500
450
400
350
300
250
0.0
0.2
0.4
0.6
0.8
1.0
ε_H1

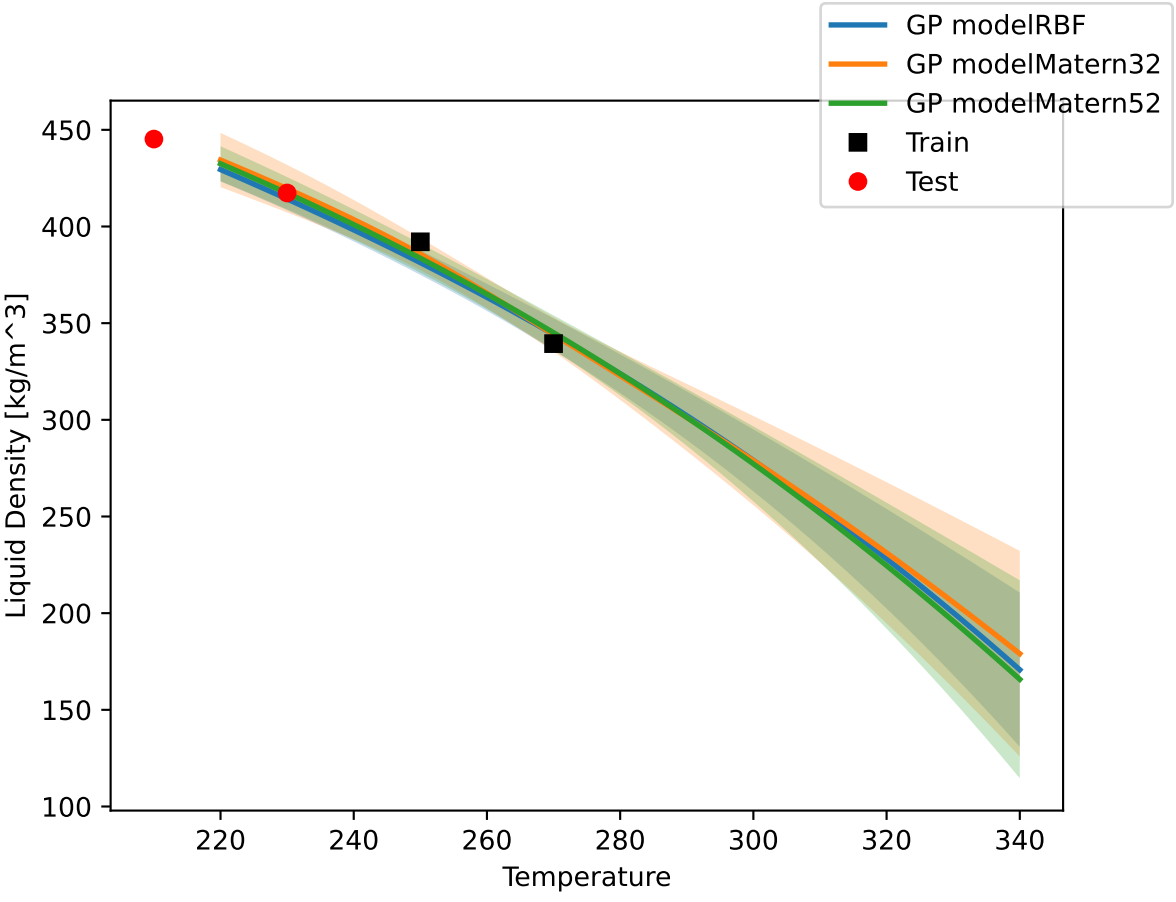

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
450
400
350
300
250
200
220
240
260
280
300
320
340
Temperature

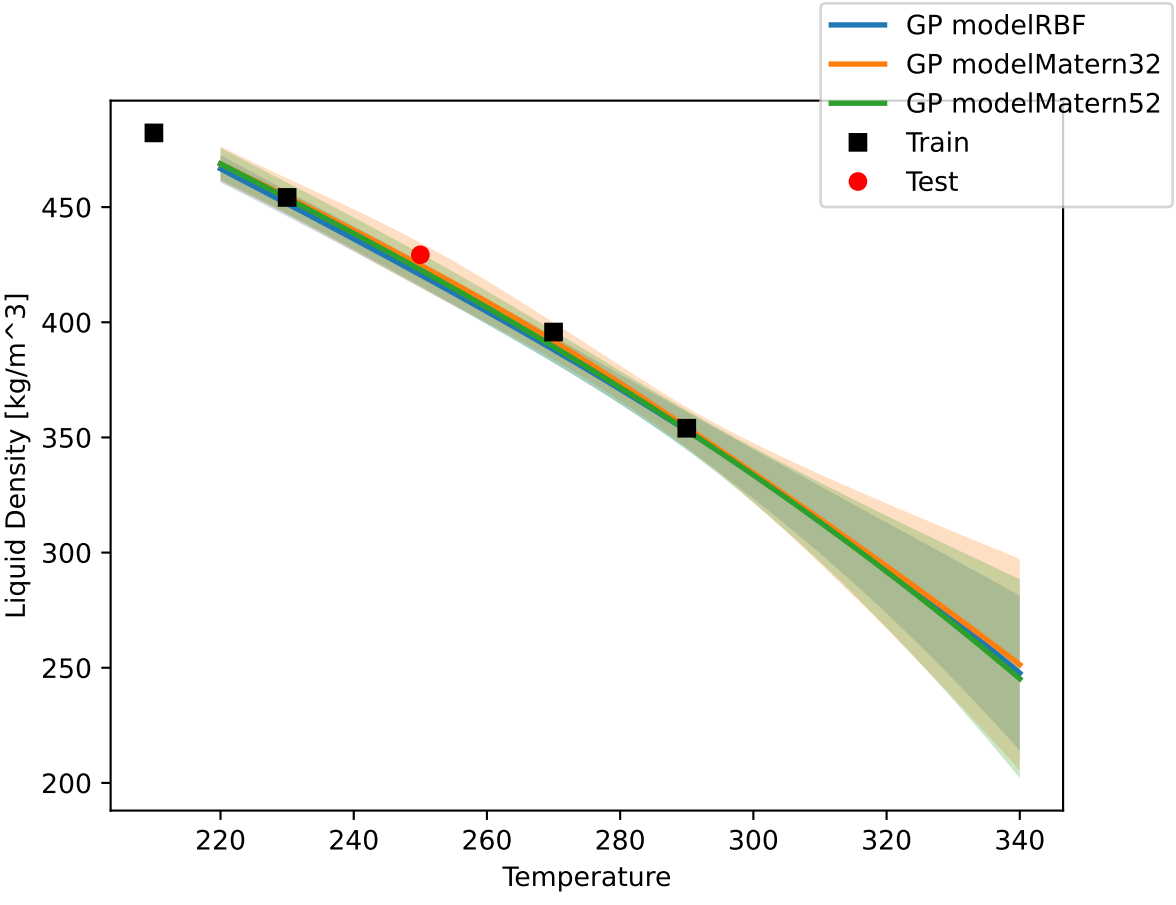

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
600
550
500
450
400
220
240
260
280
300
320
340
Temperature

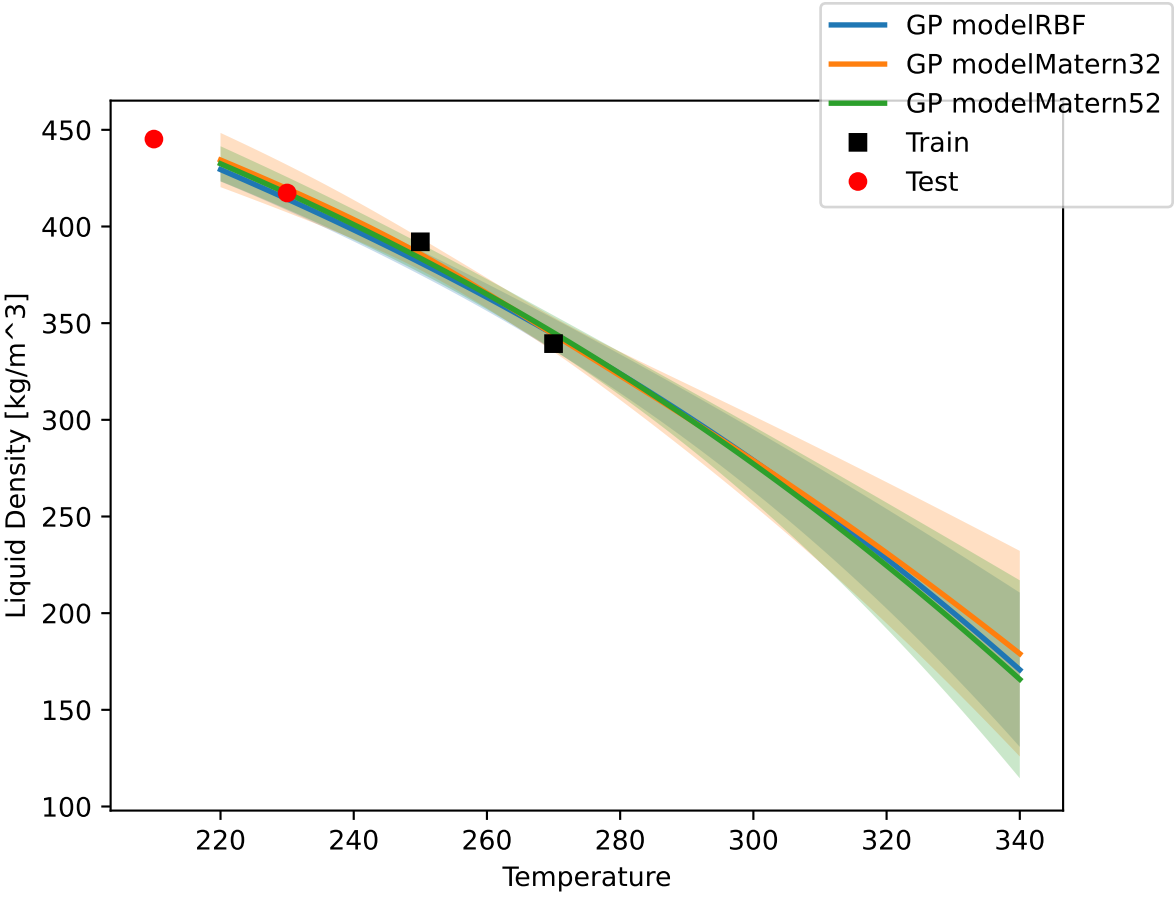

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
500
450
400
350
300
250
200
150
220
240
260
280
300
320
340

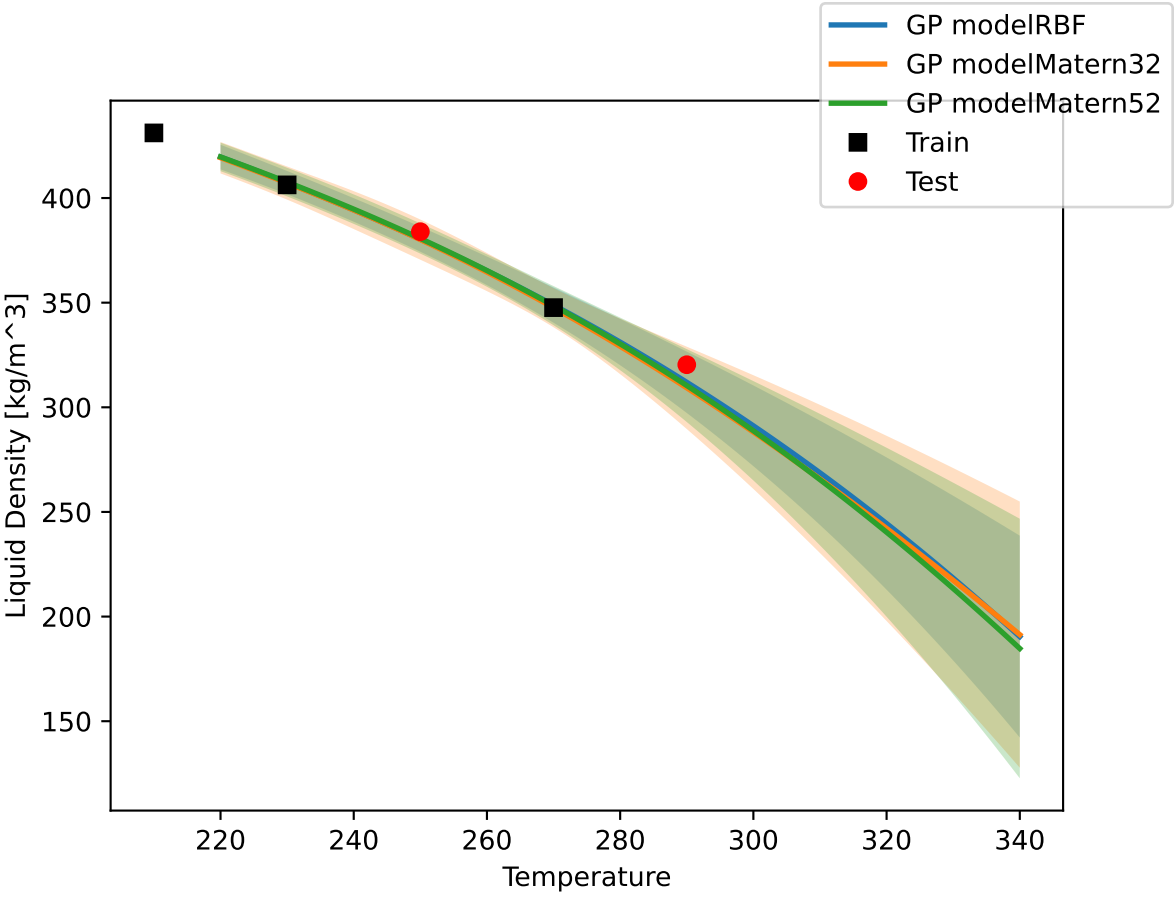

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
600
550
500
450
400
350
Liquid Density [kg/m^3]
220
240
260
280
300
320
340
Temperature

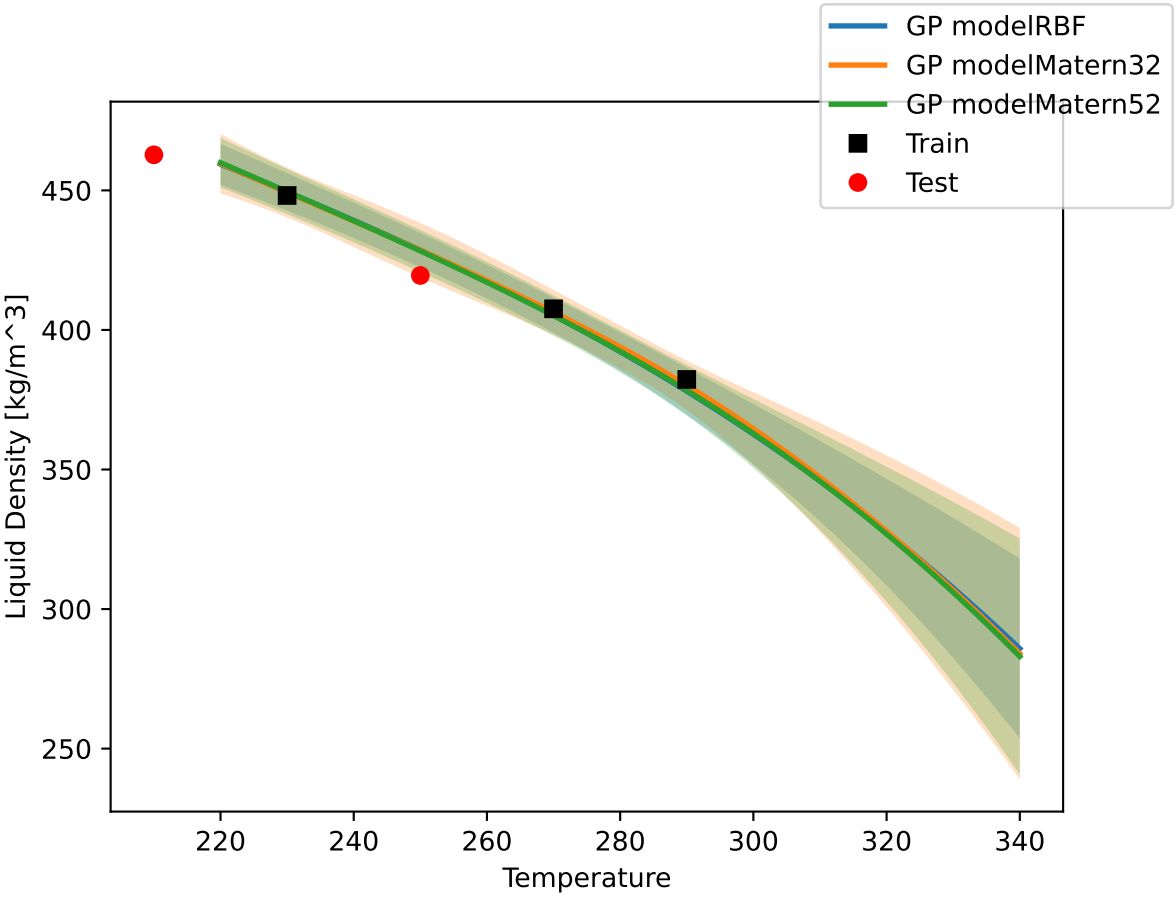

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
100
150
200
250
300
350
400
450
220
240
260
280
300
320
340

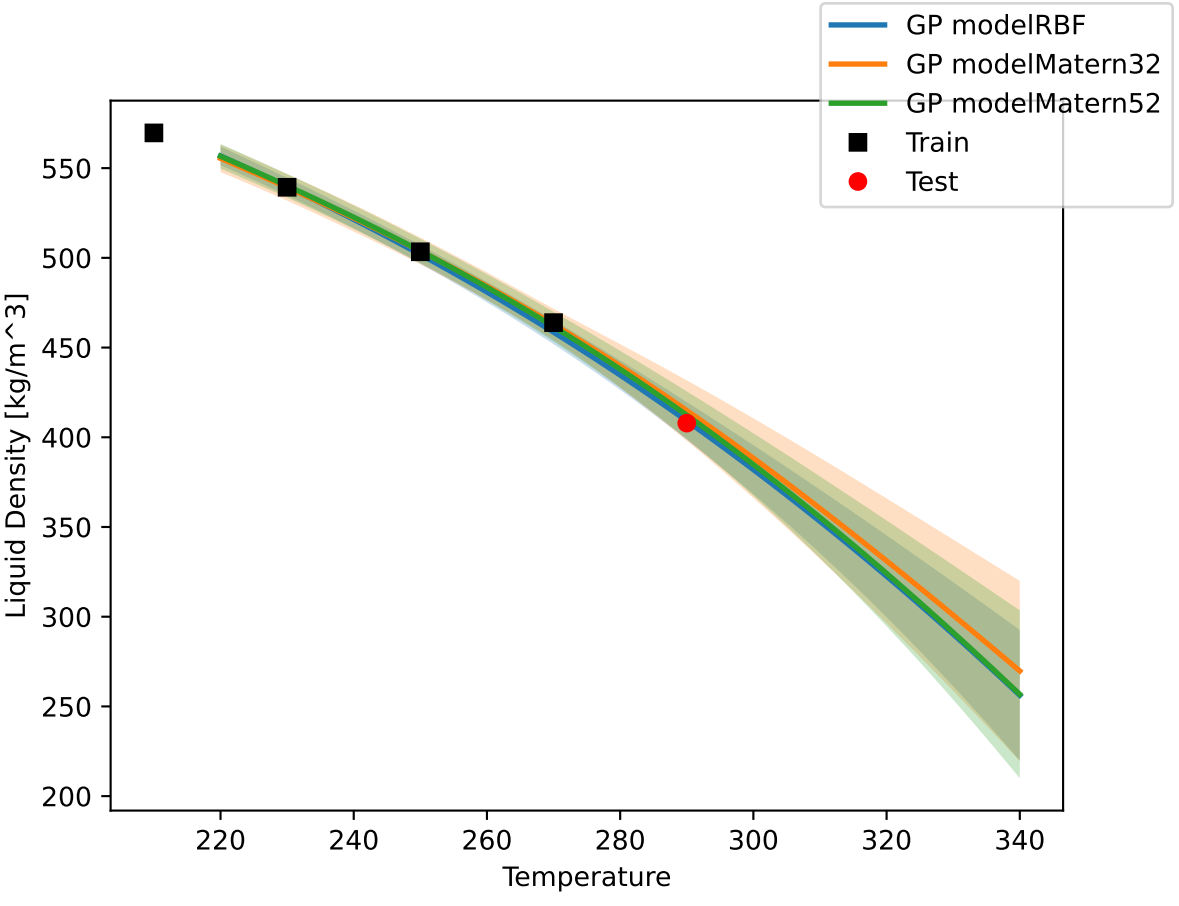

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
450
400
350
300
250
200
150
100
220
240
260
280
300
320
340

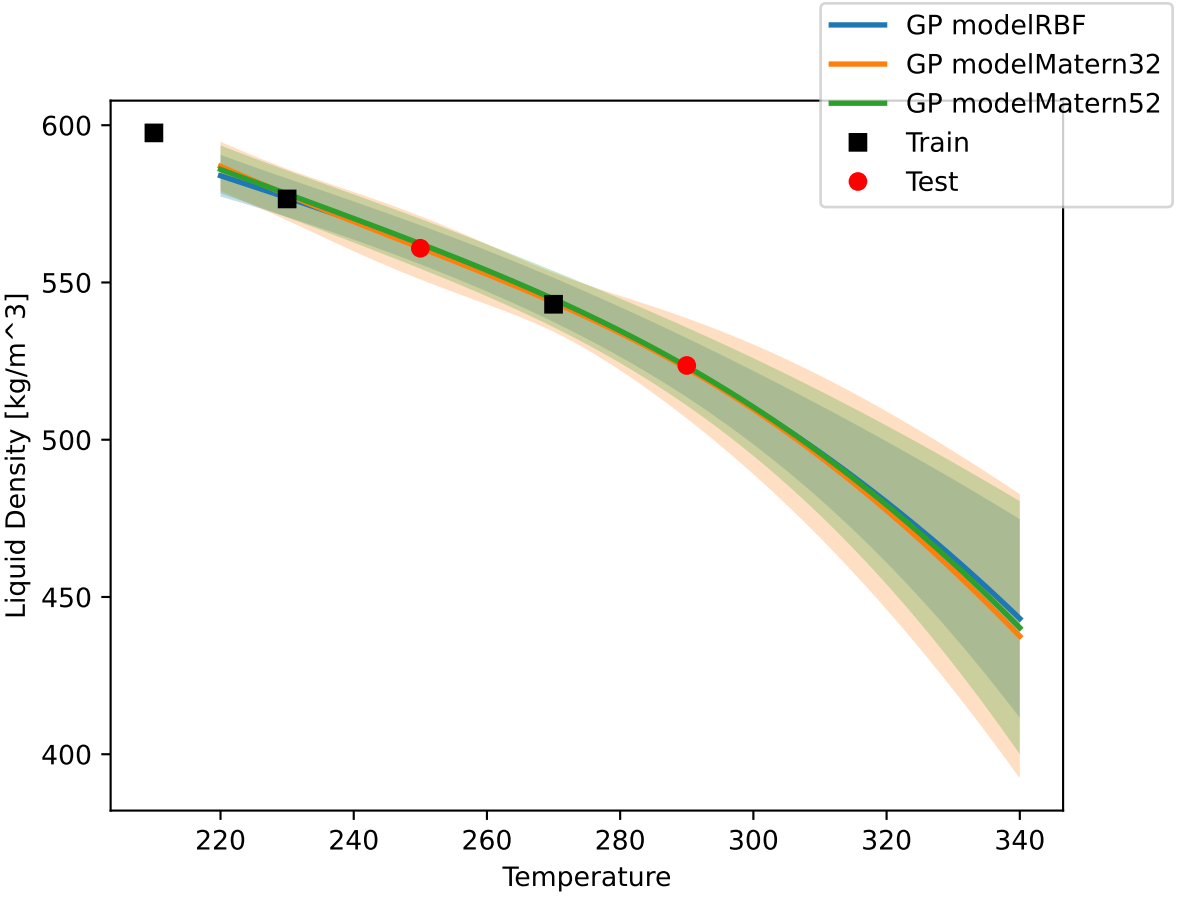

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
450
400
350
300
250
200
220
240
260
280
300
320
340
Temperature

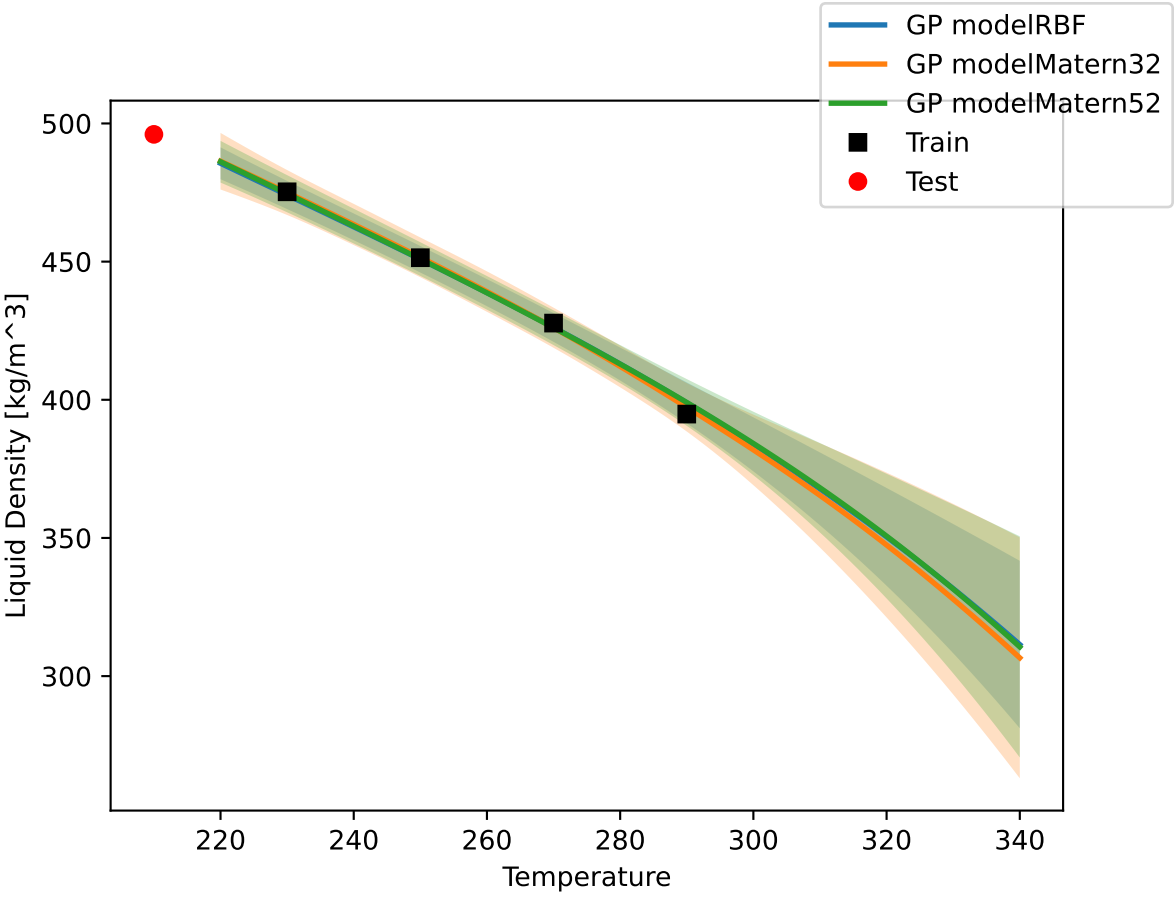

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
450
400
350
300
250
200
150
100
220
240
260
280
300
320
340

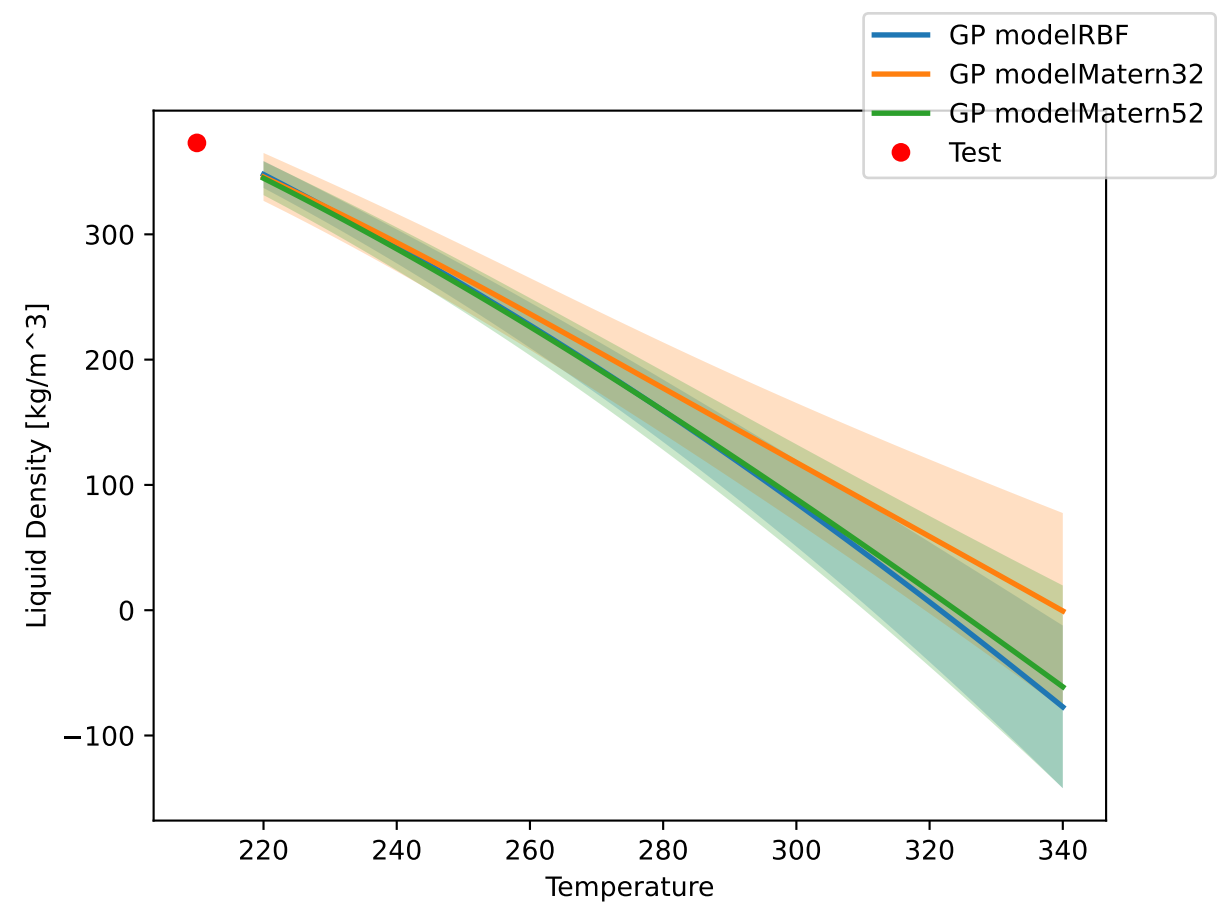

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
400
350
300
250
200
150
220
240
260
280
300
320
340
Temperature

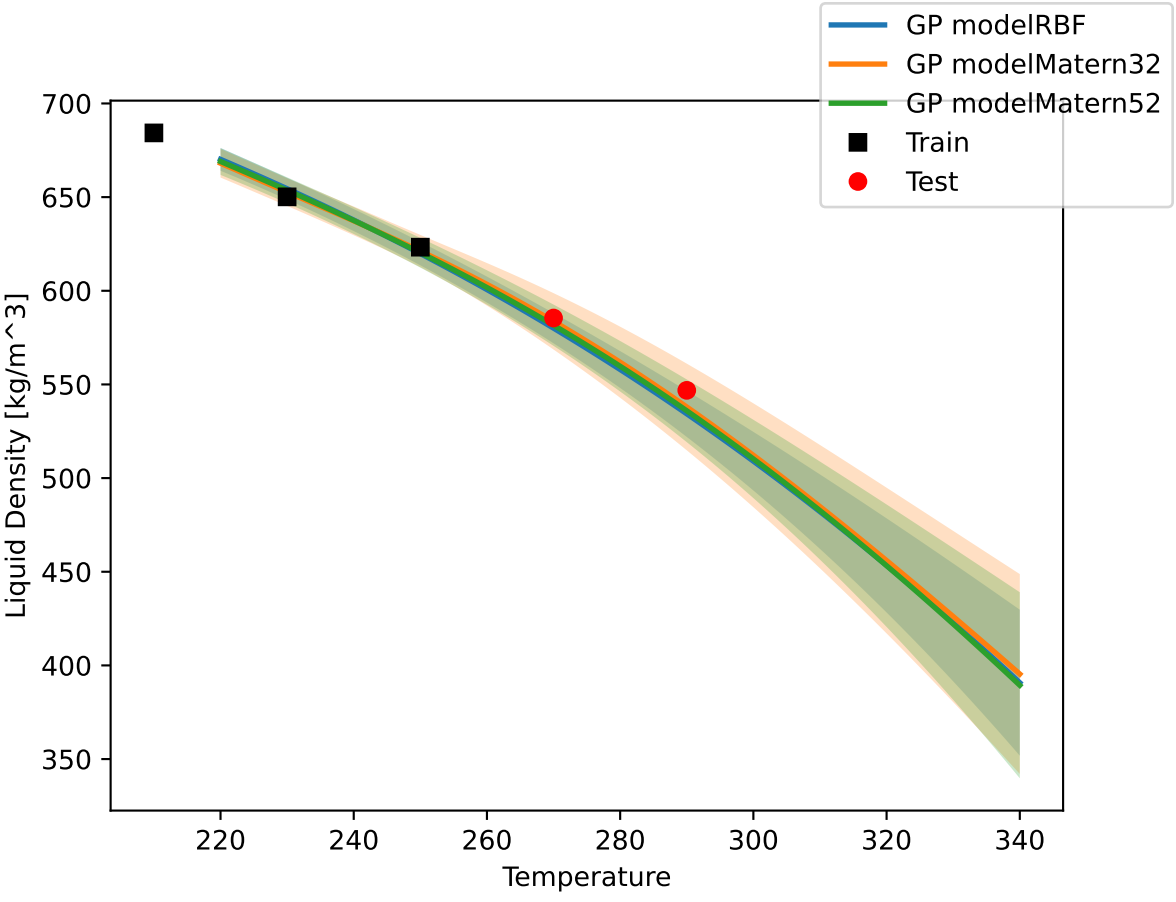

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
450
400
350
300
250
220
240
260
280
300
320
340
Temperature

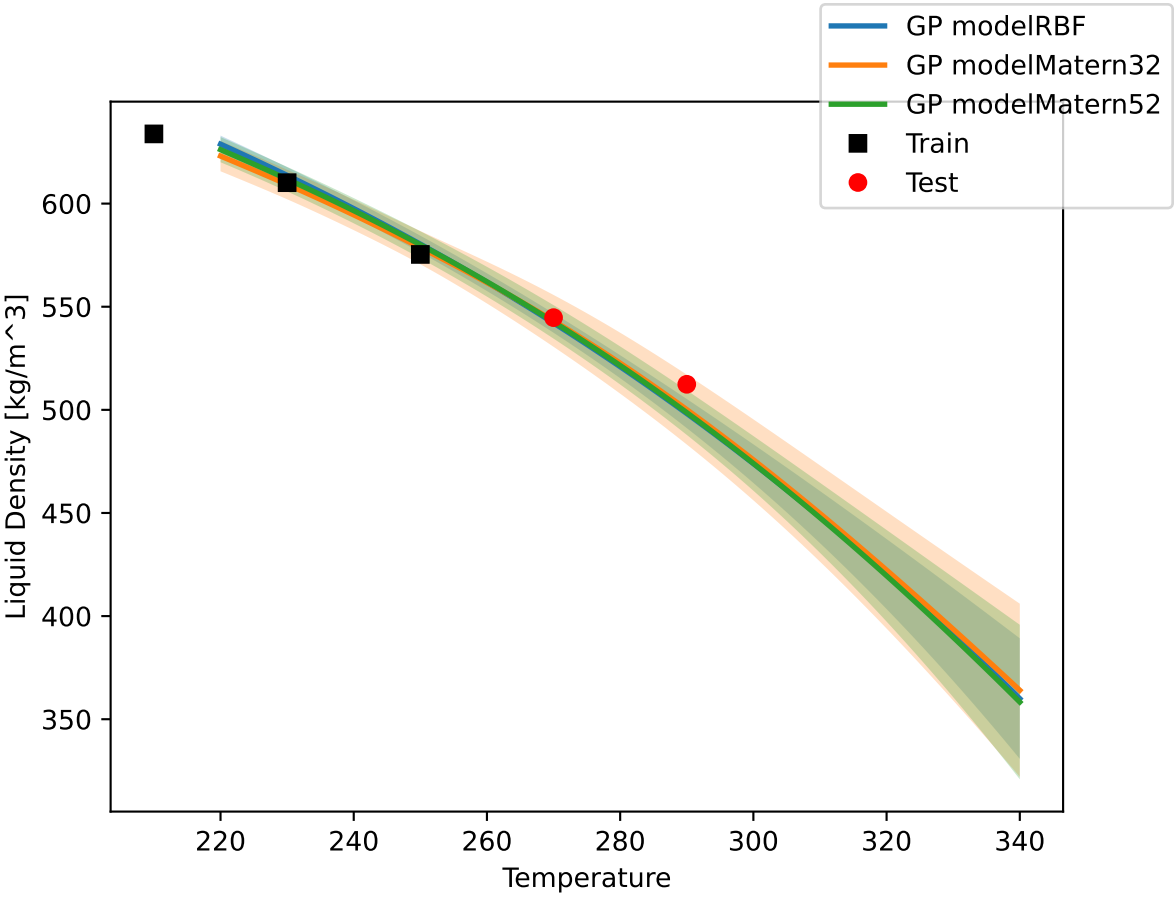

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
550
500
450
400
350
300
250
200
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
600
550
500
450
400
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
450
400
350
300
220
240
260
280
300
320
340
Temperature


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


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
700
650
600
550
500
450
400
350
220
240
260
280
300
320
340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GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
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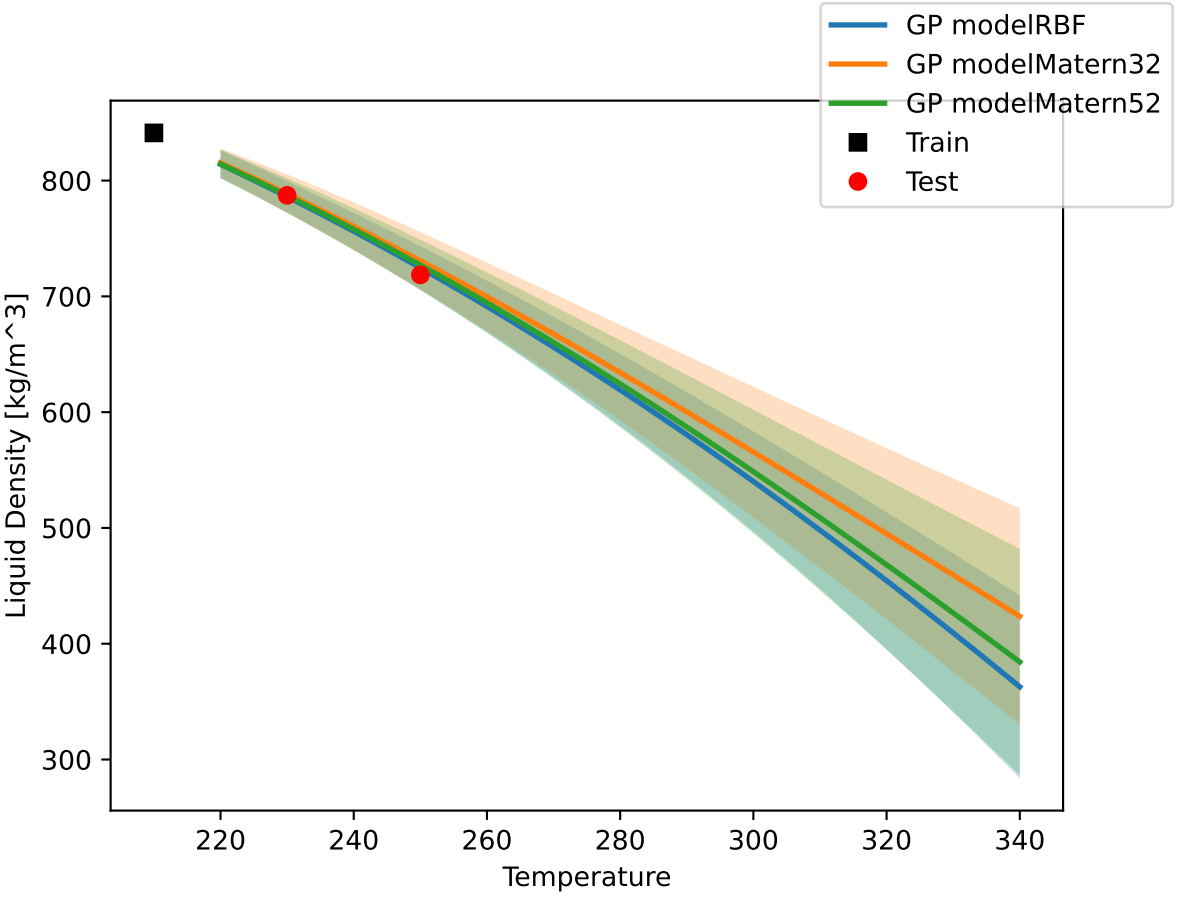
Temperature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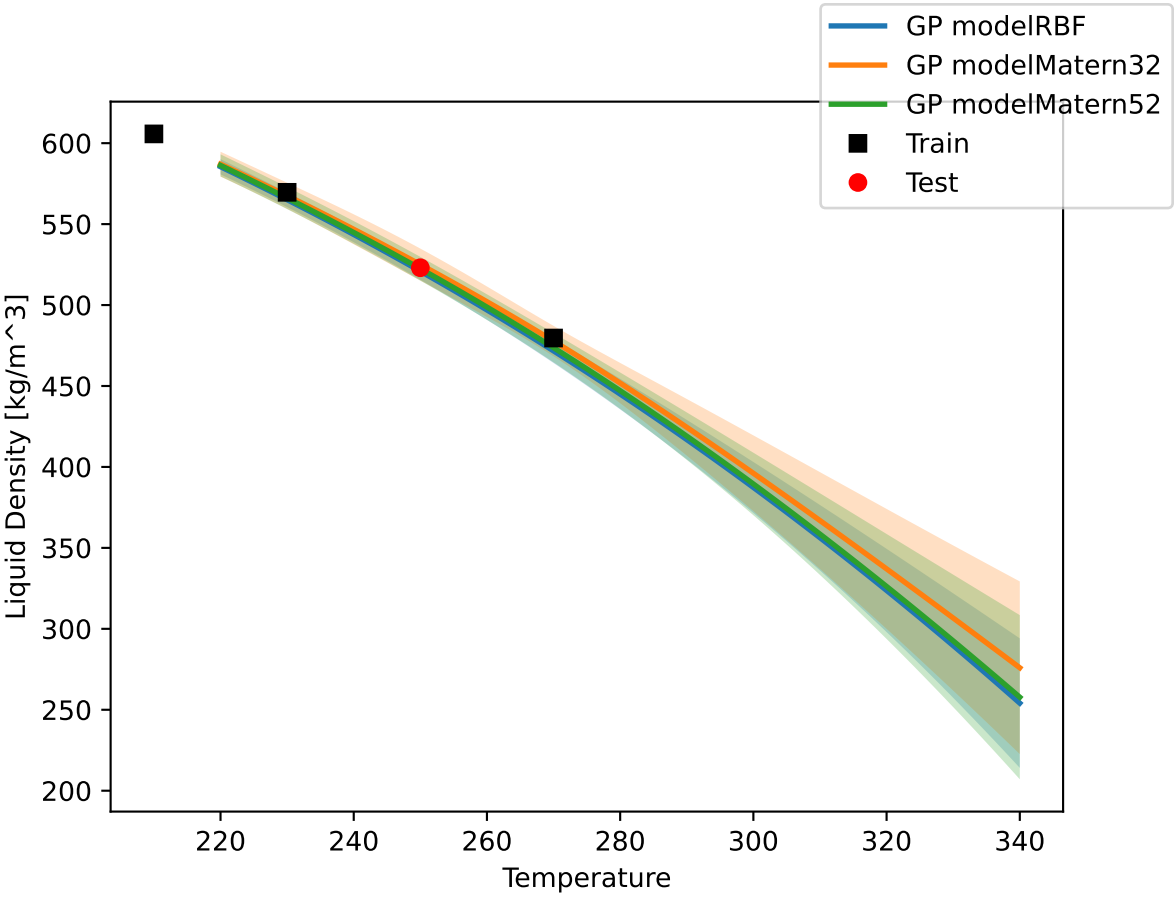
Temperature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Test
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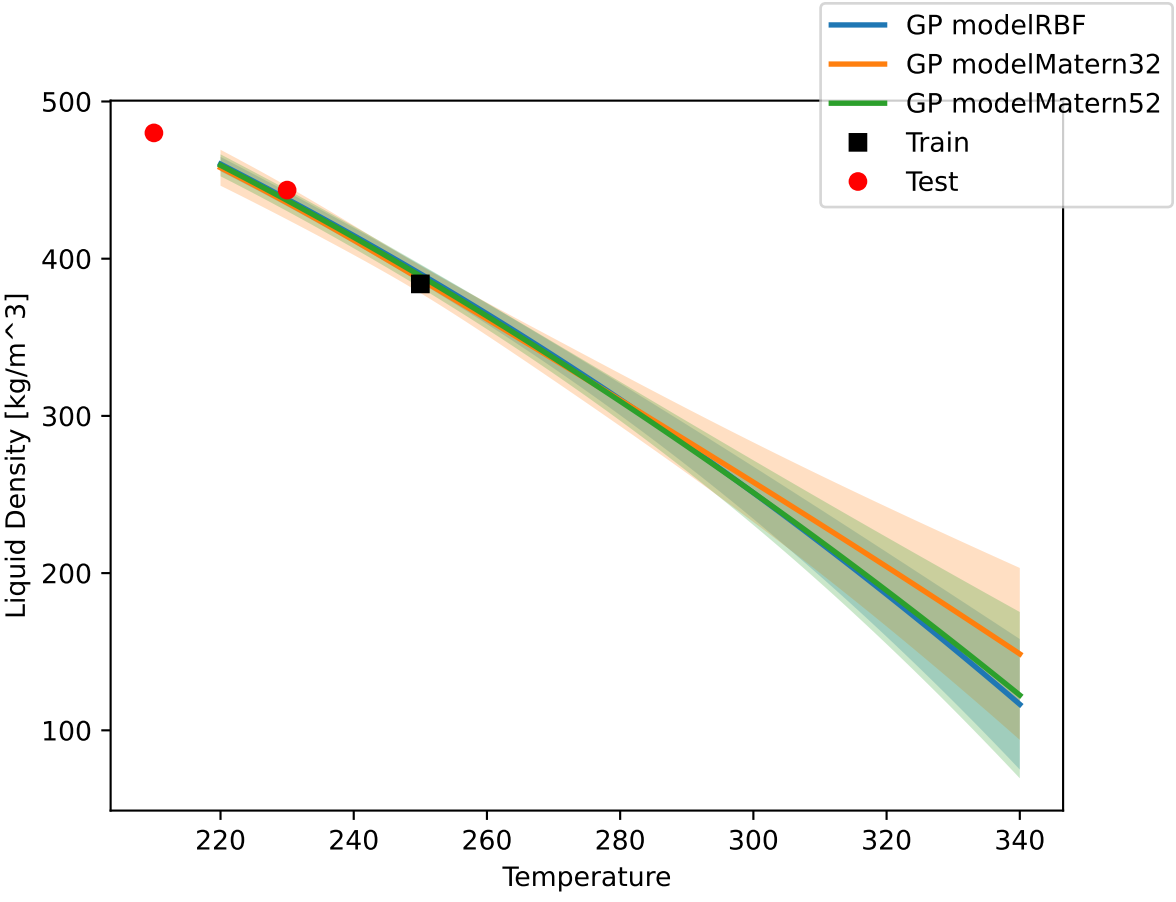
Temperature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Liquid Density [kg/m^3]
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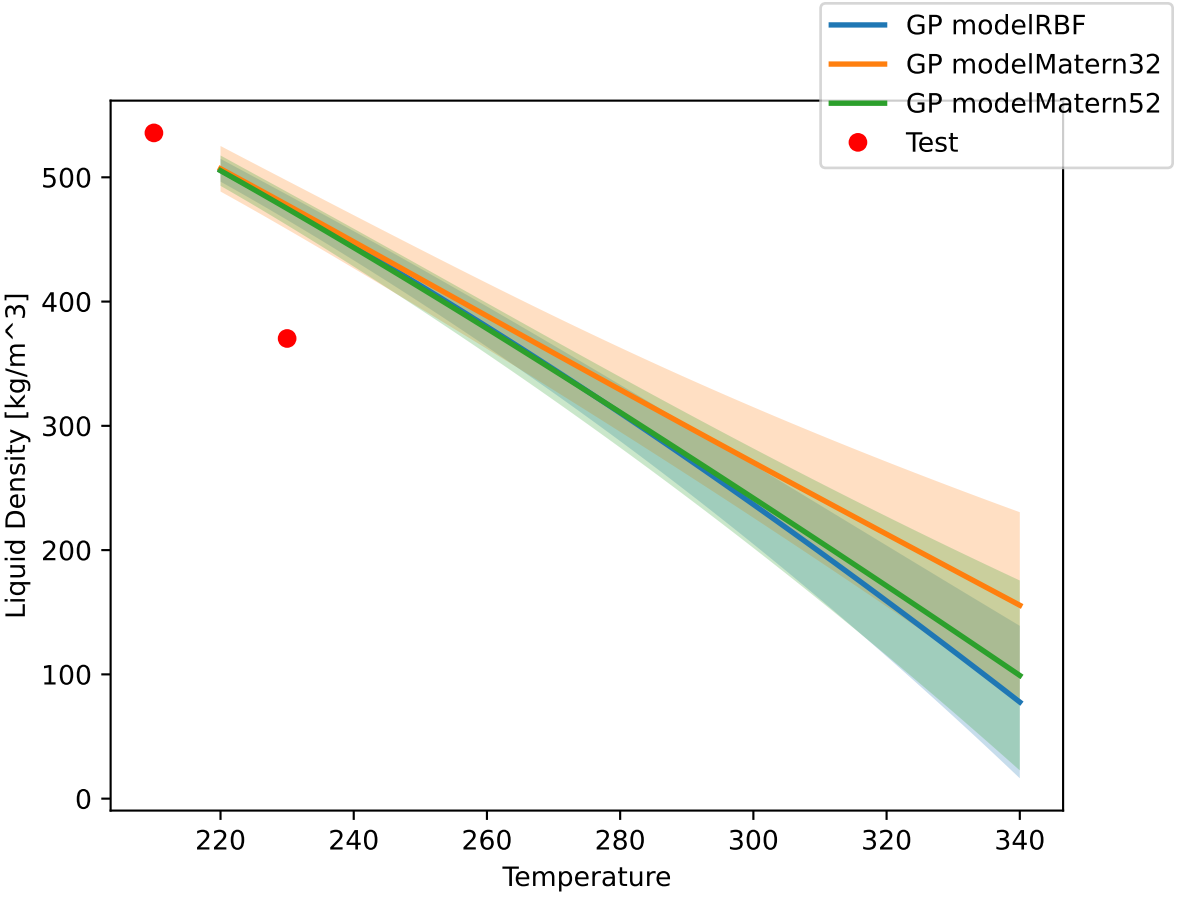
Temperature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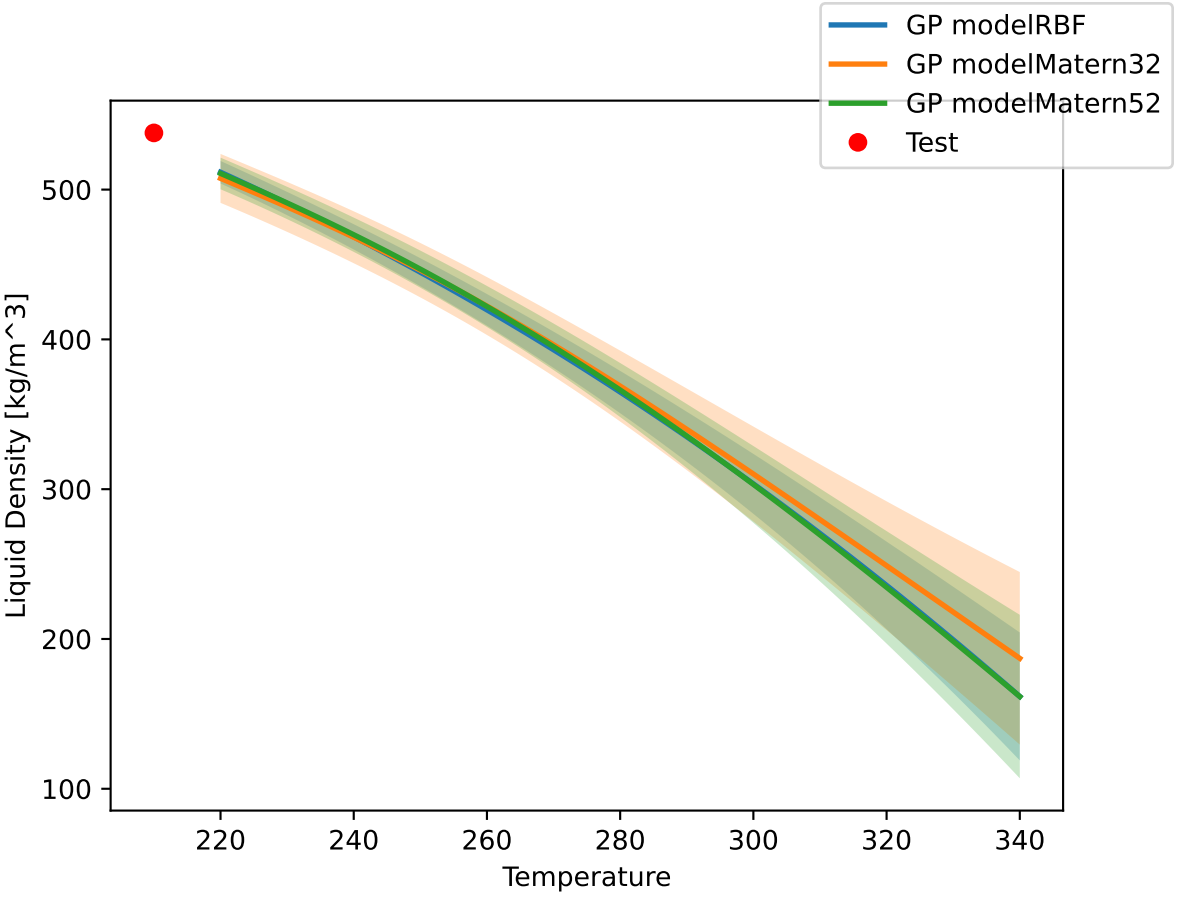
Temperature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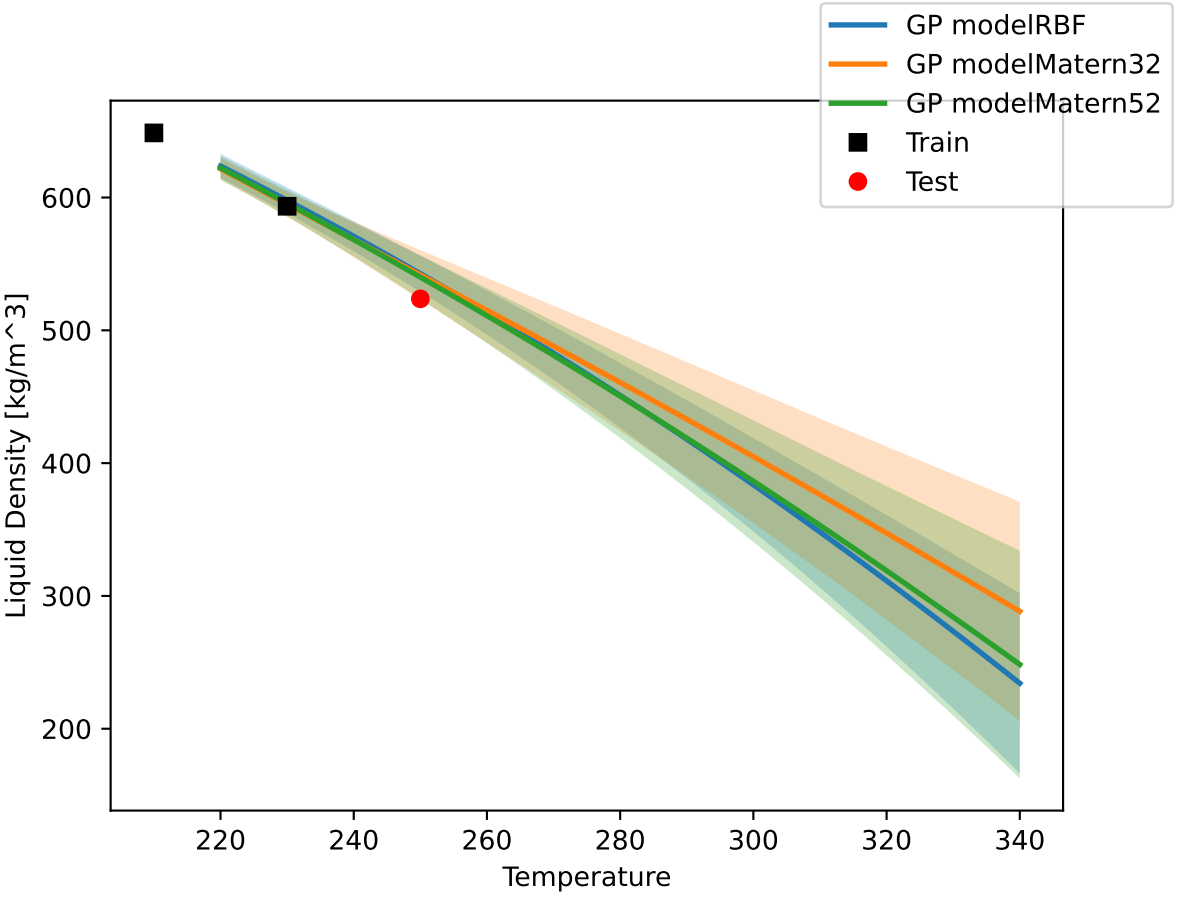
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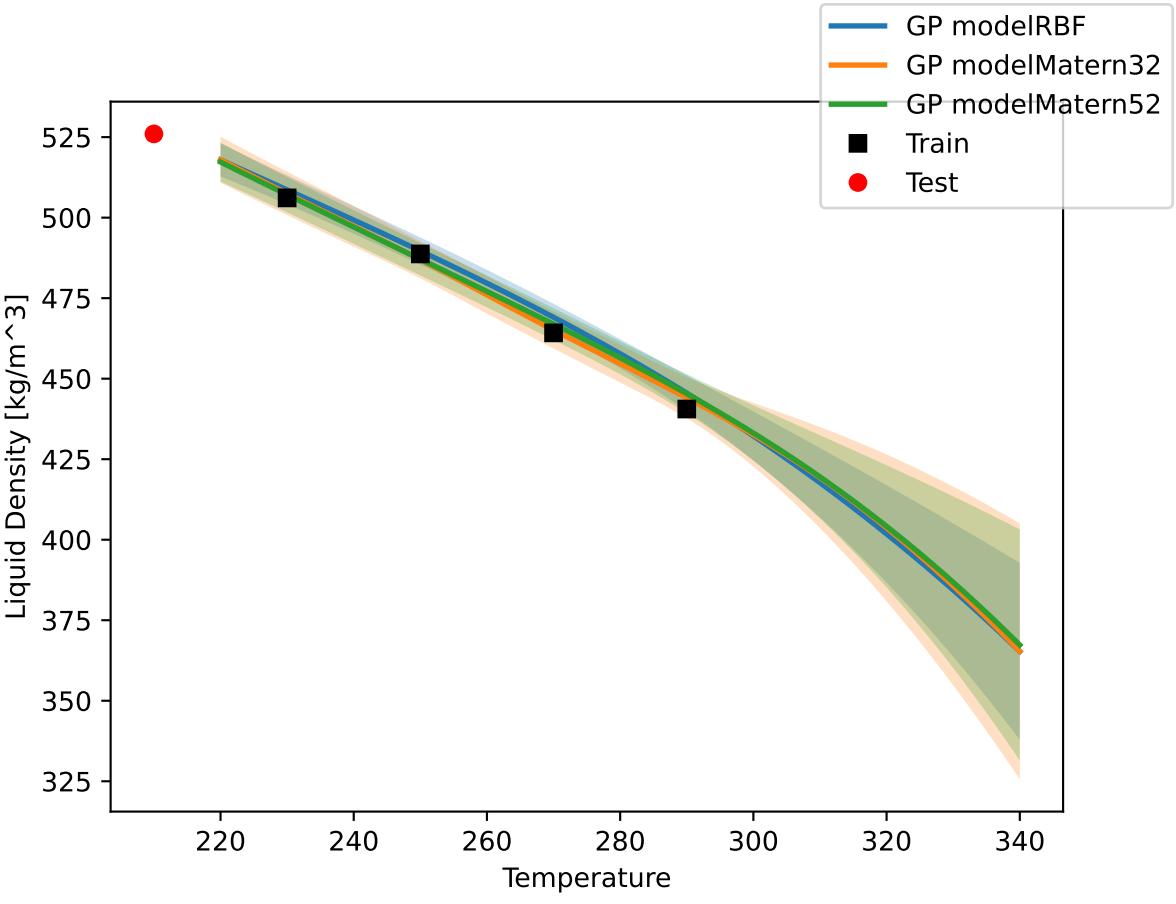
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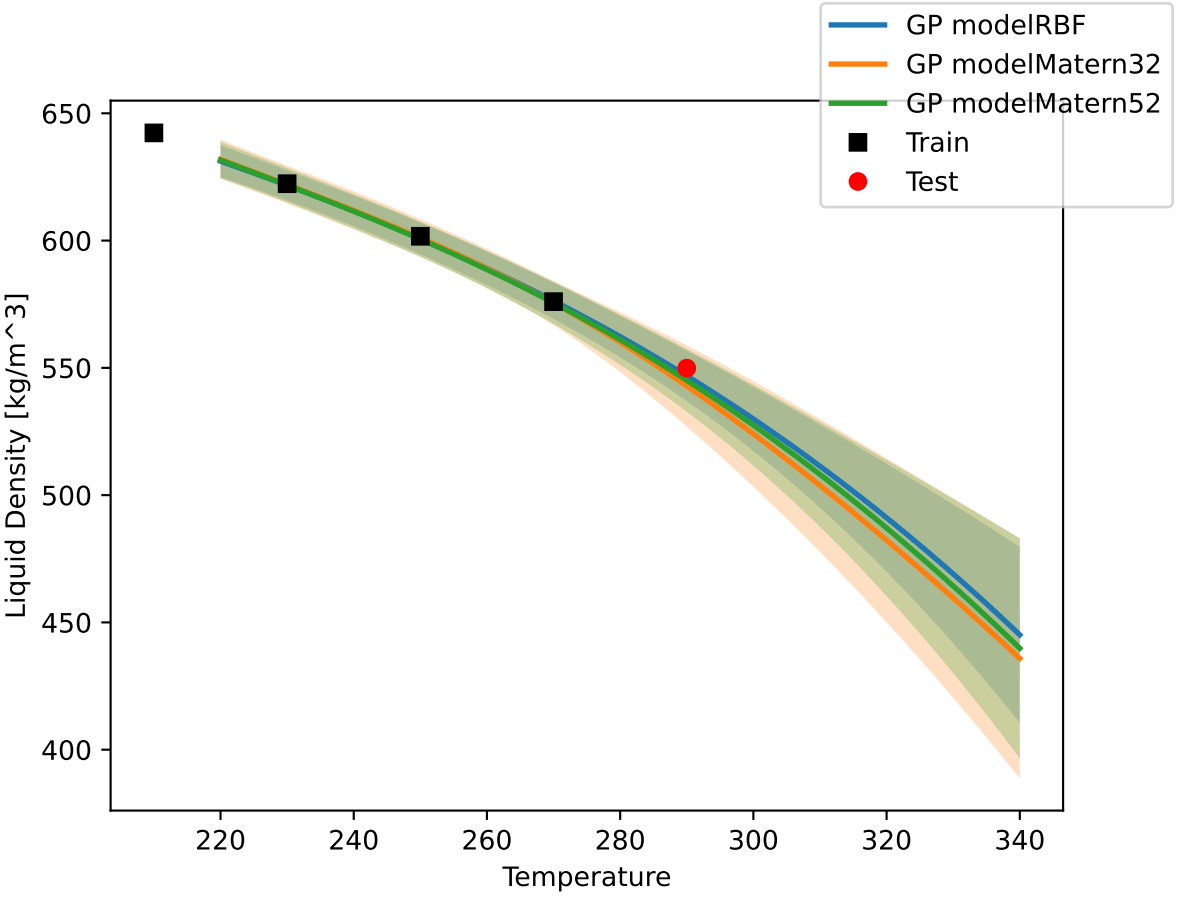
Temperature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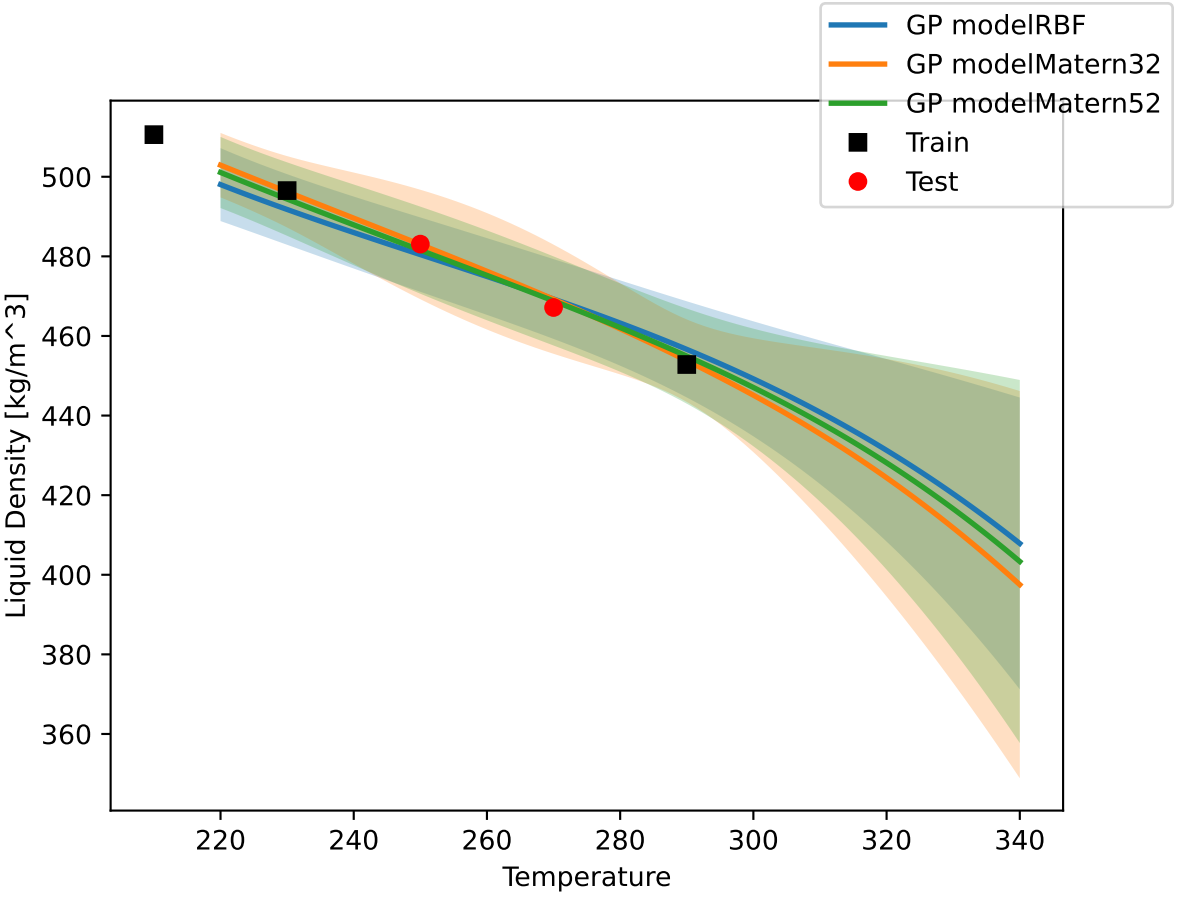
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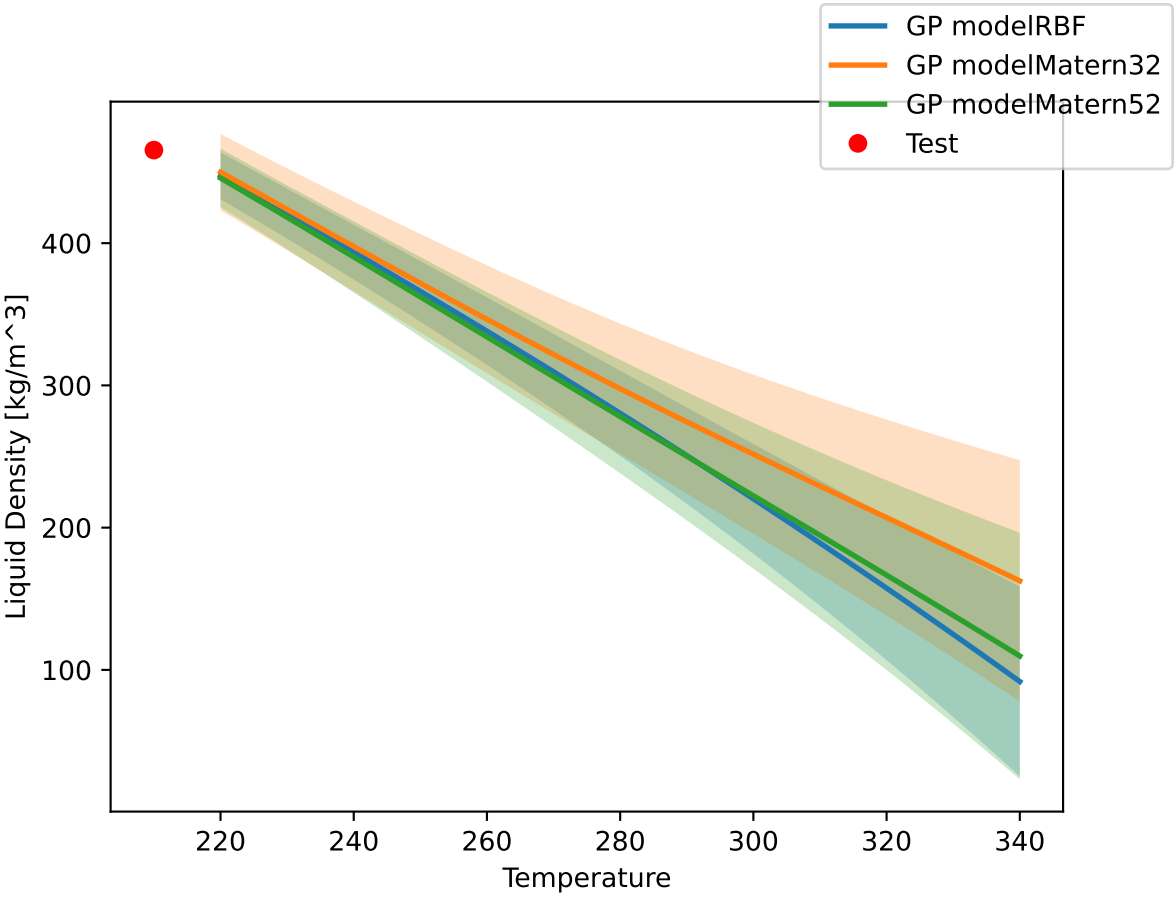
Temperature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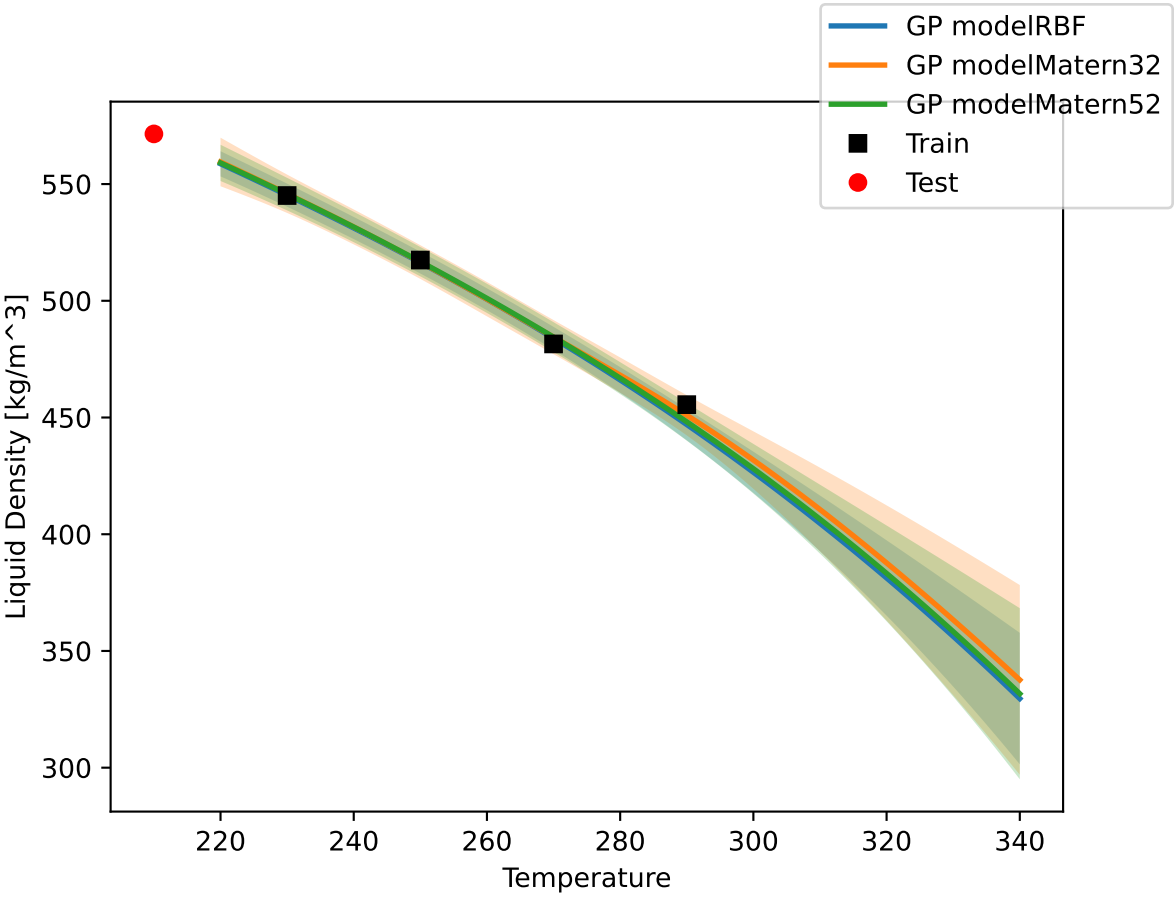
Temperature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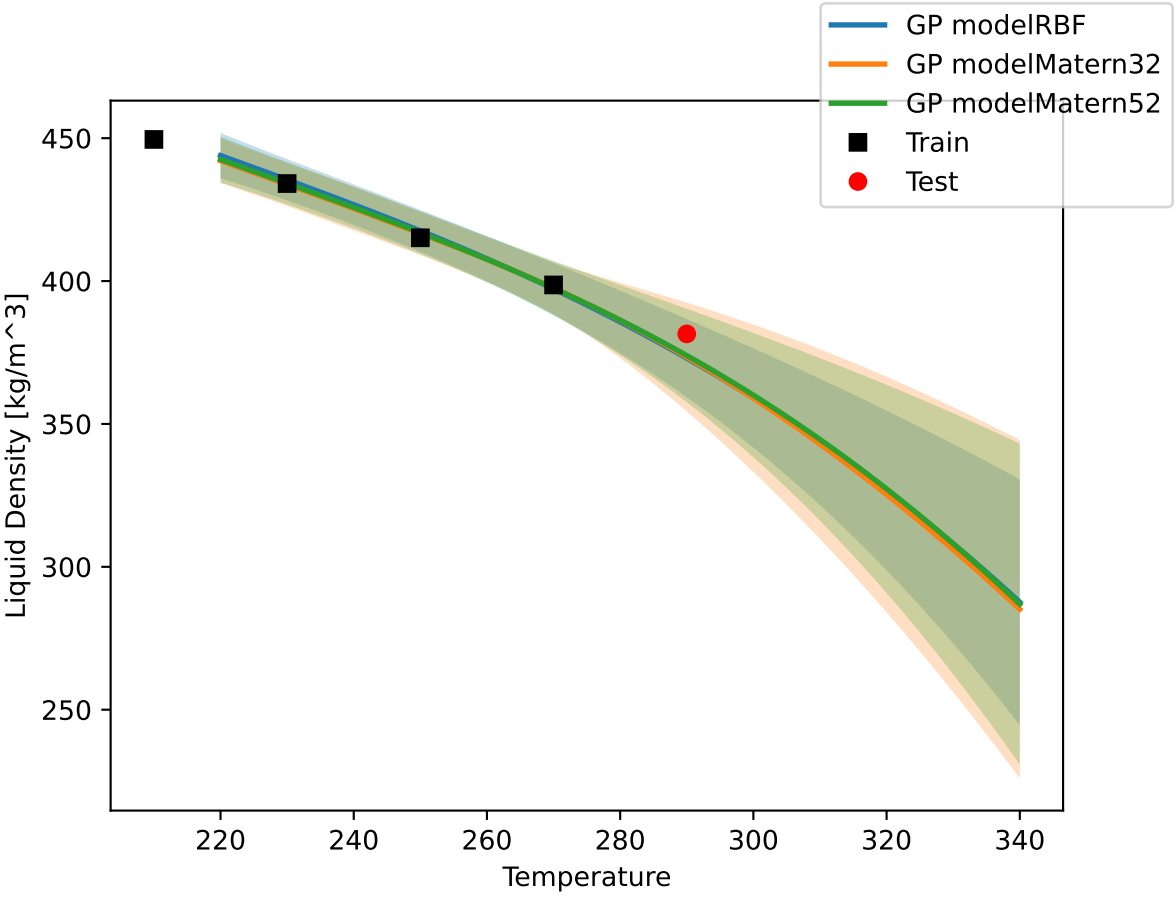
Temperature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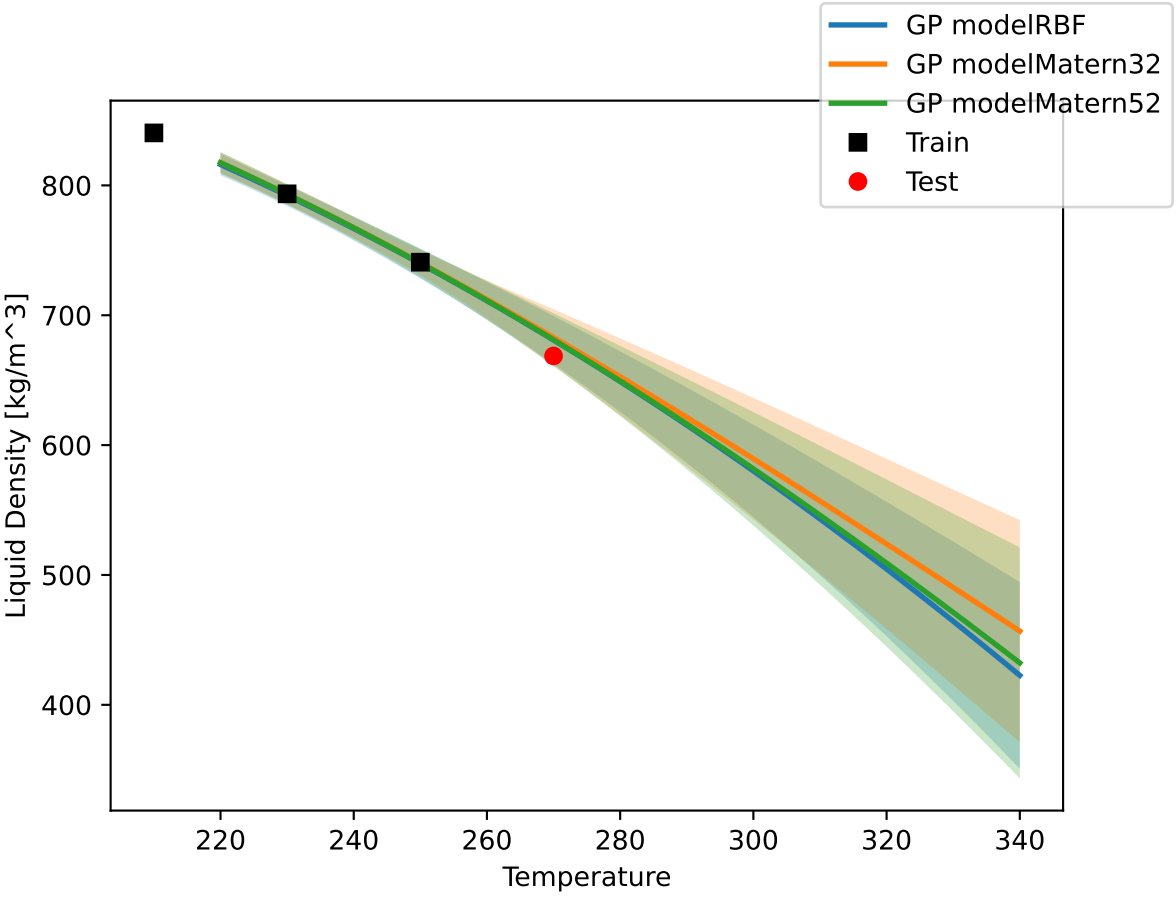
Temperature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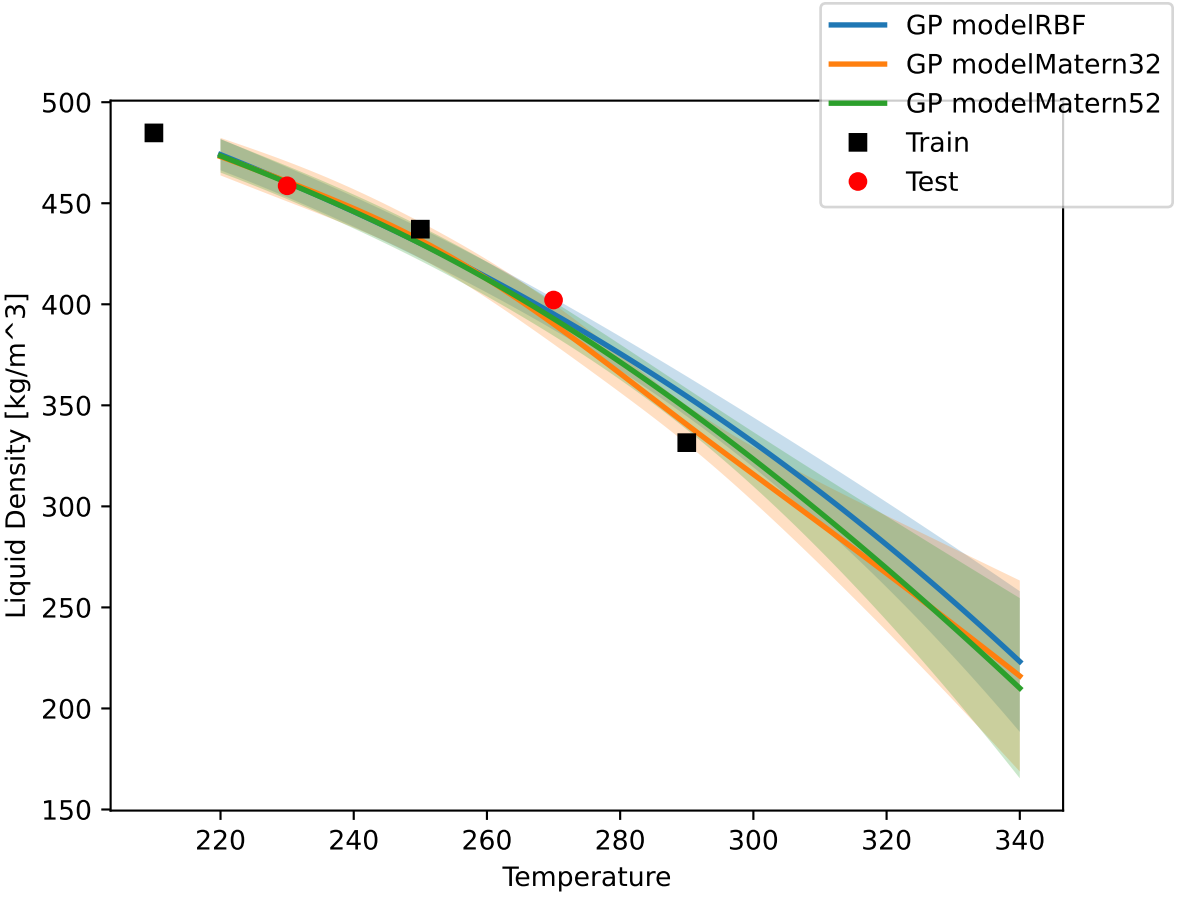
Temperature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Temperature
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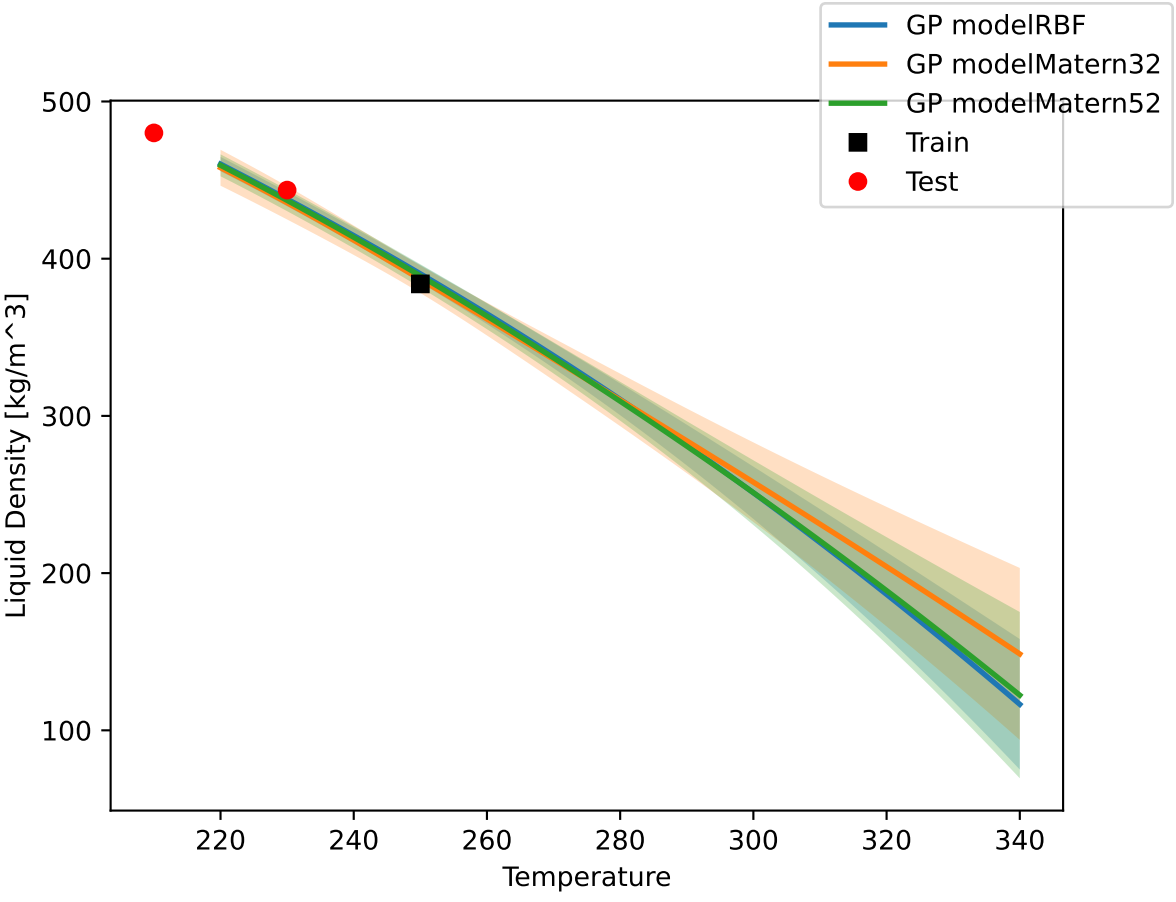
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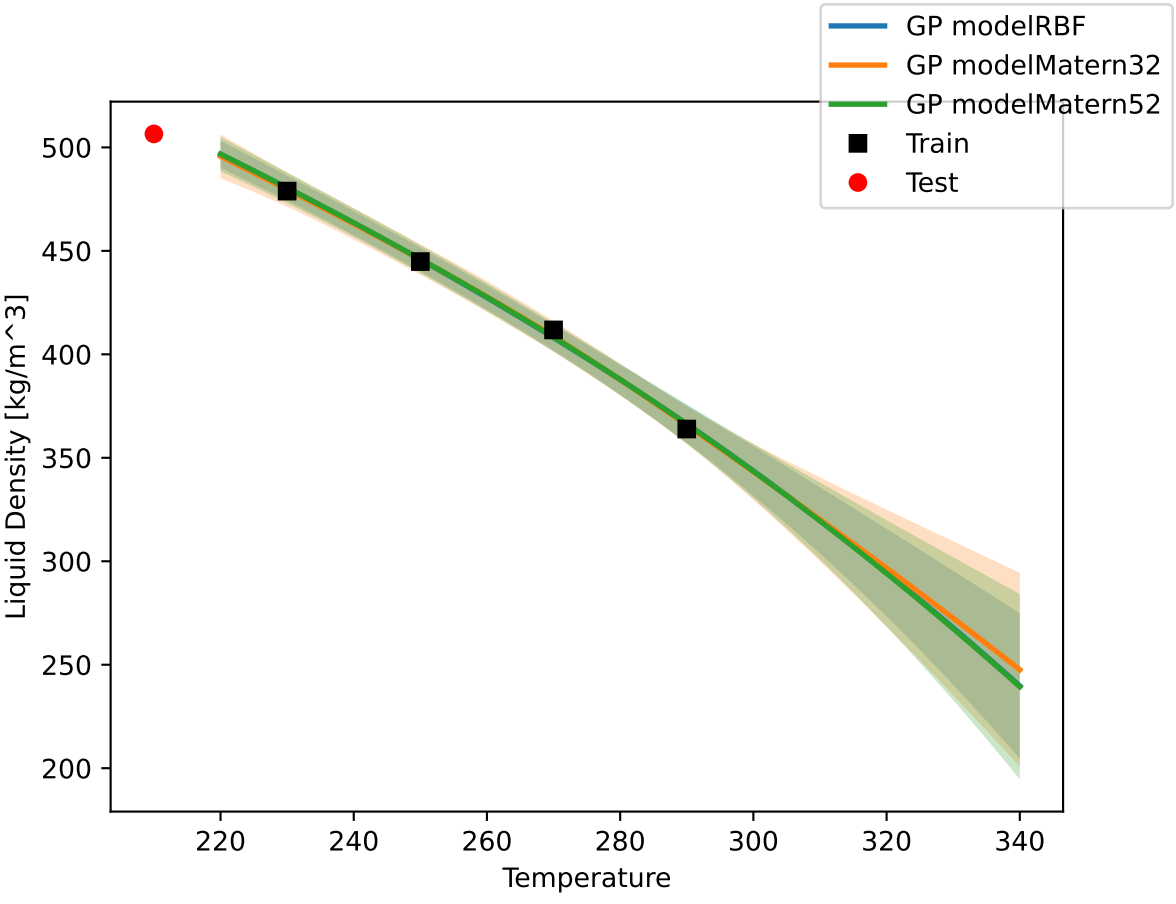
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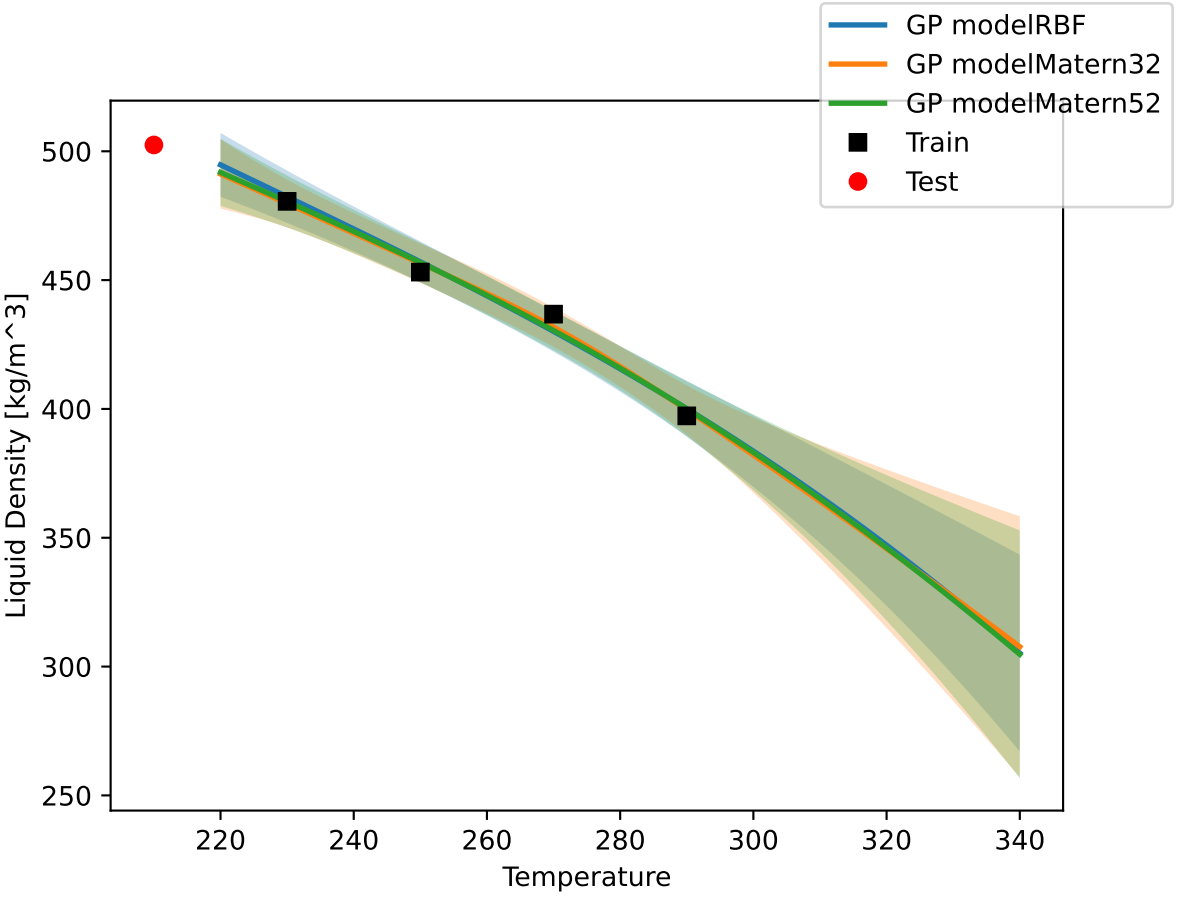
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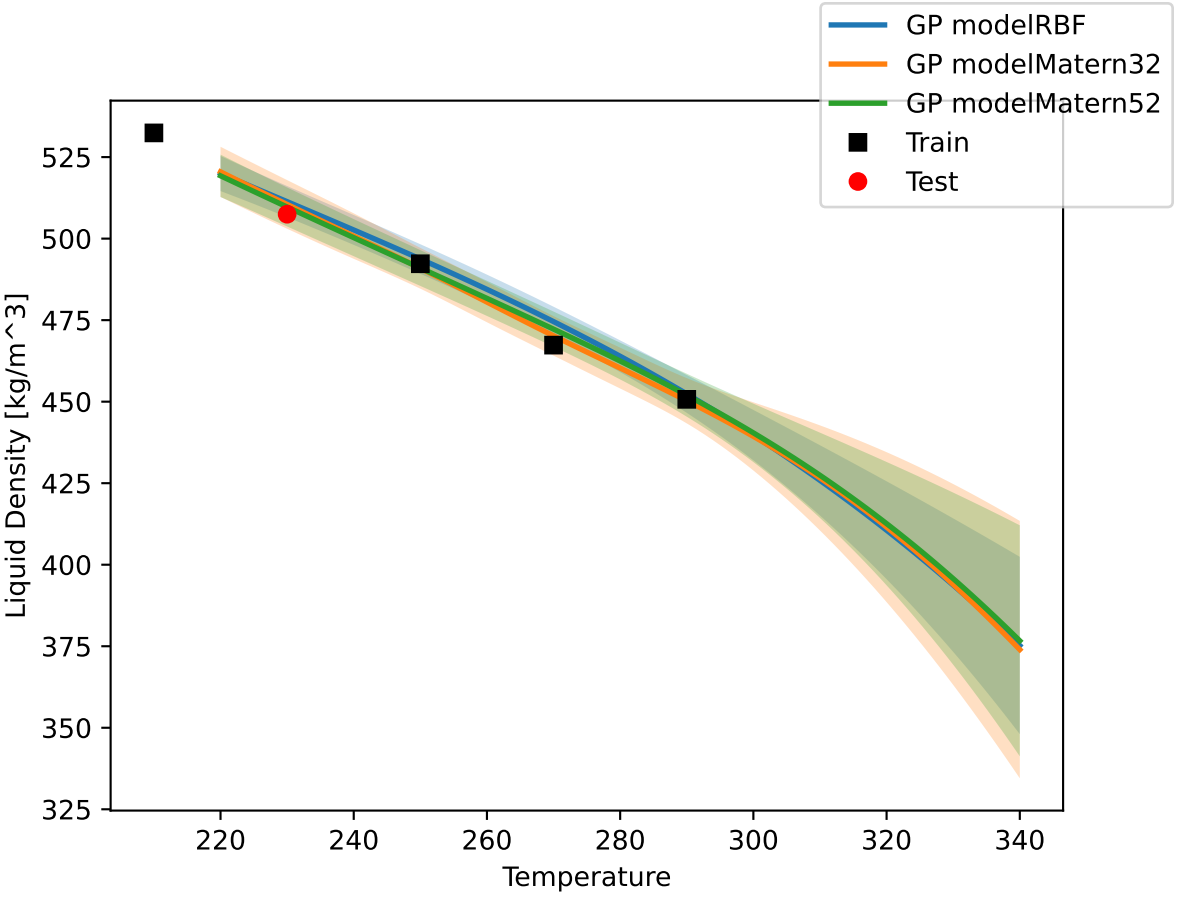
Temperature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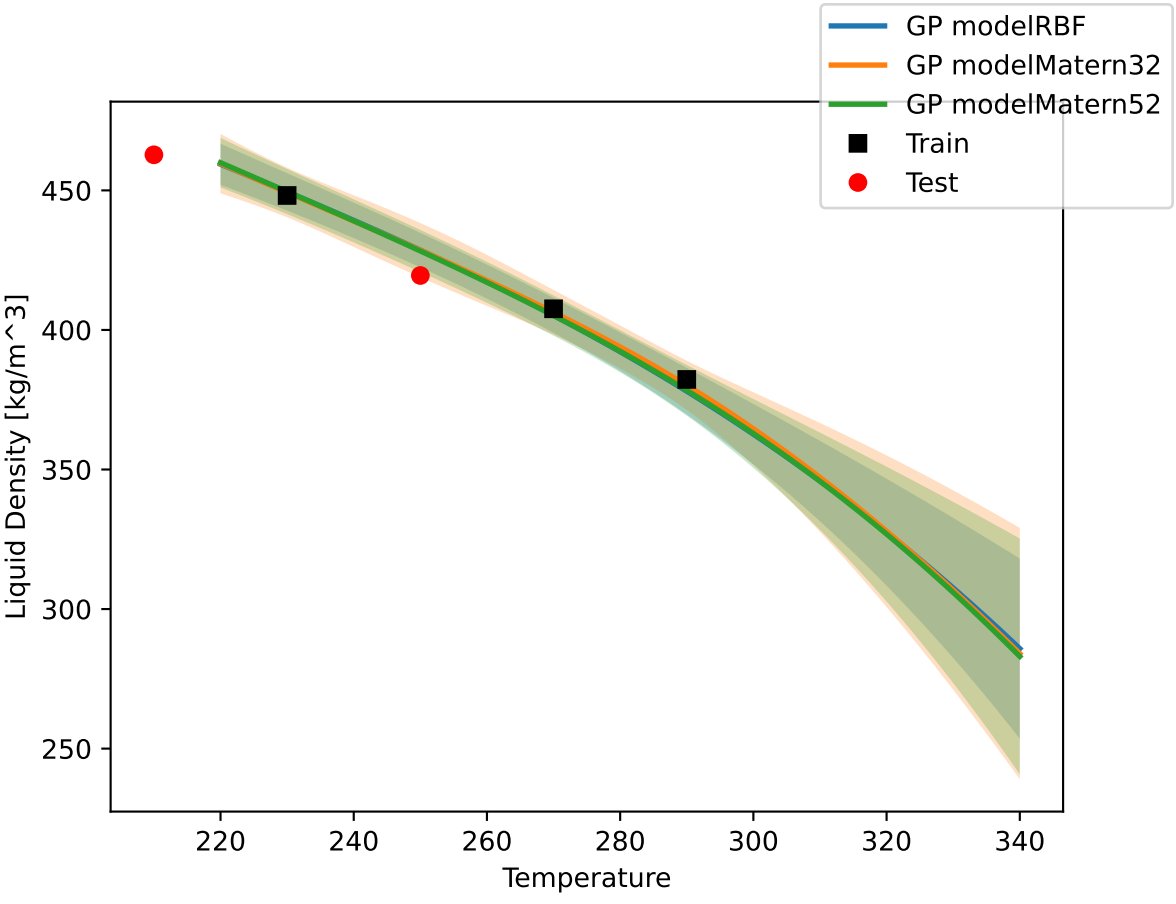
Temperature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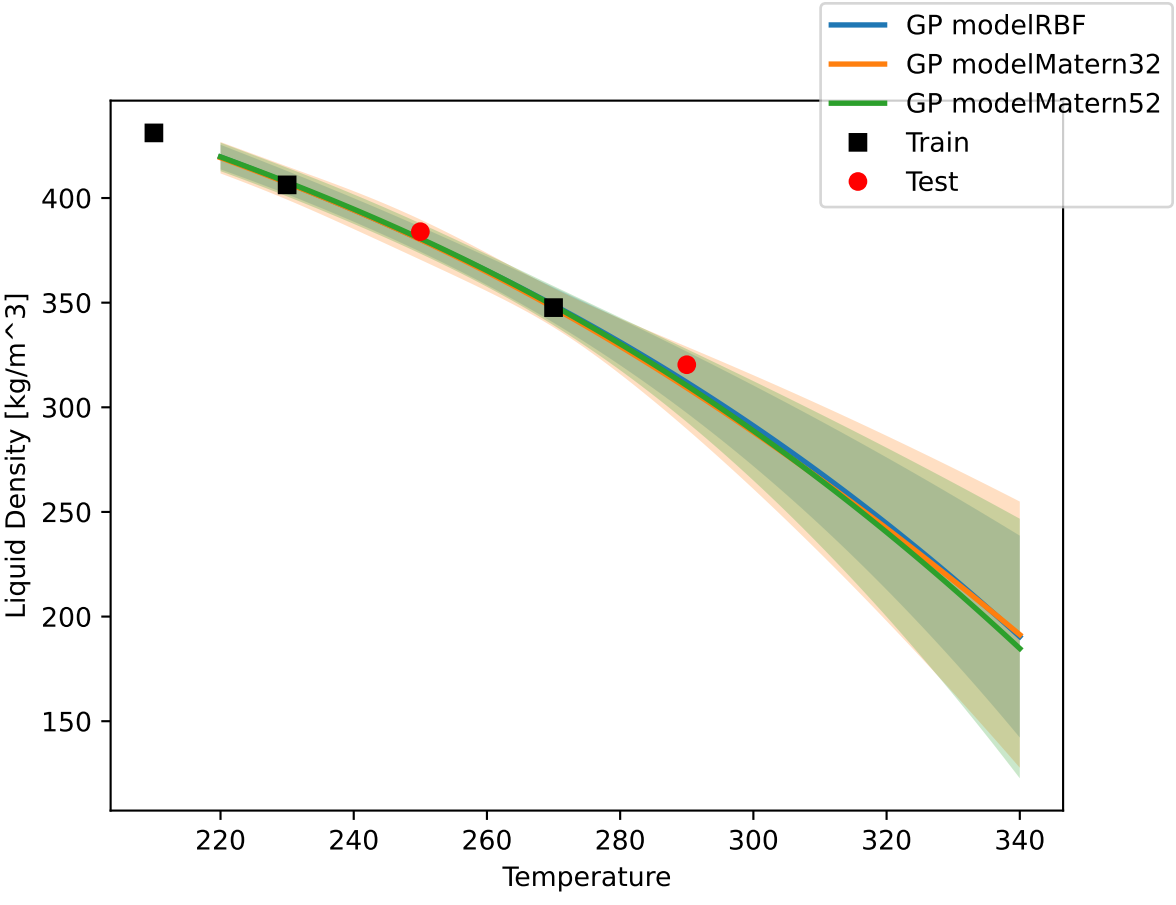
Temperature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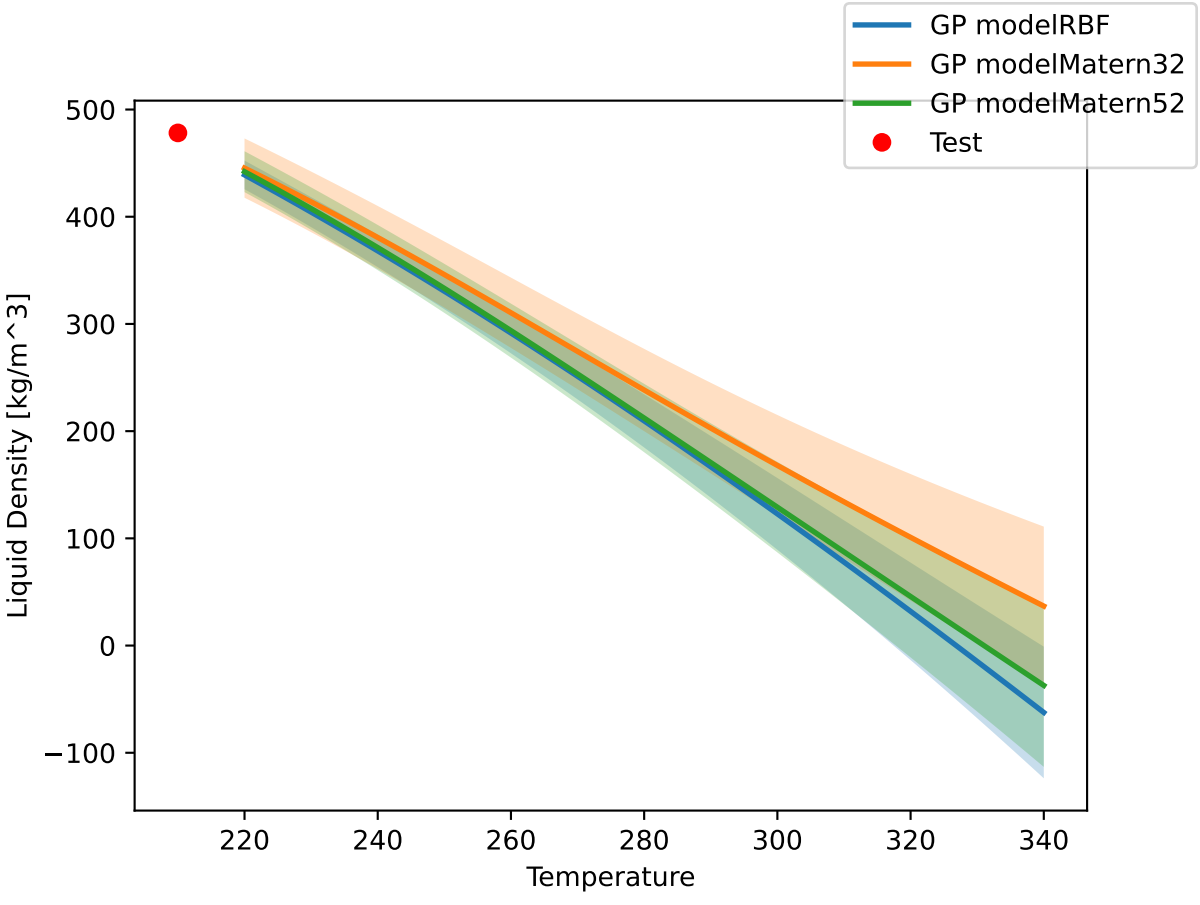
Temperature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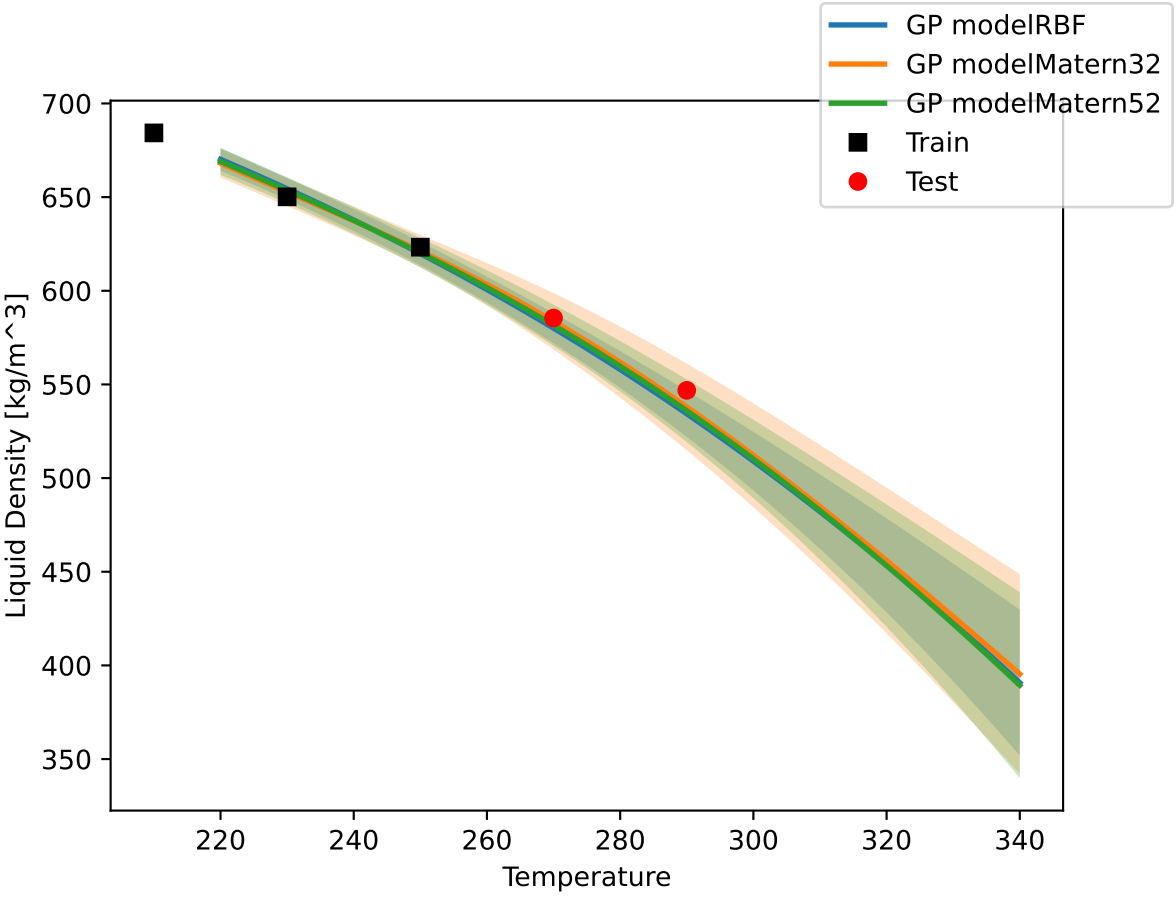
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Temperature
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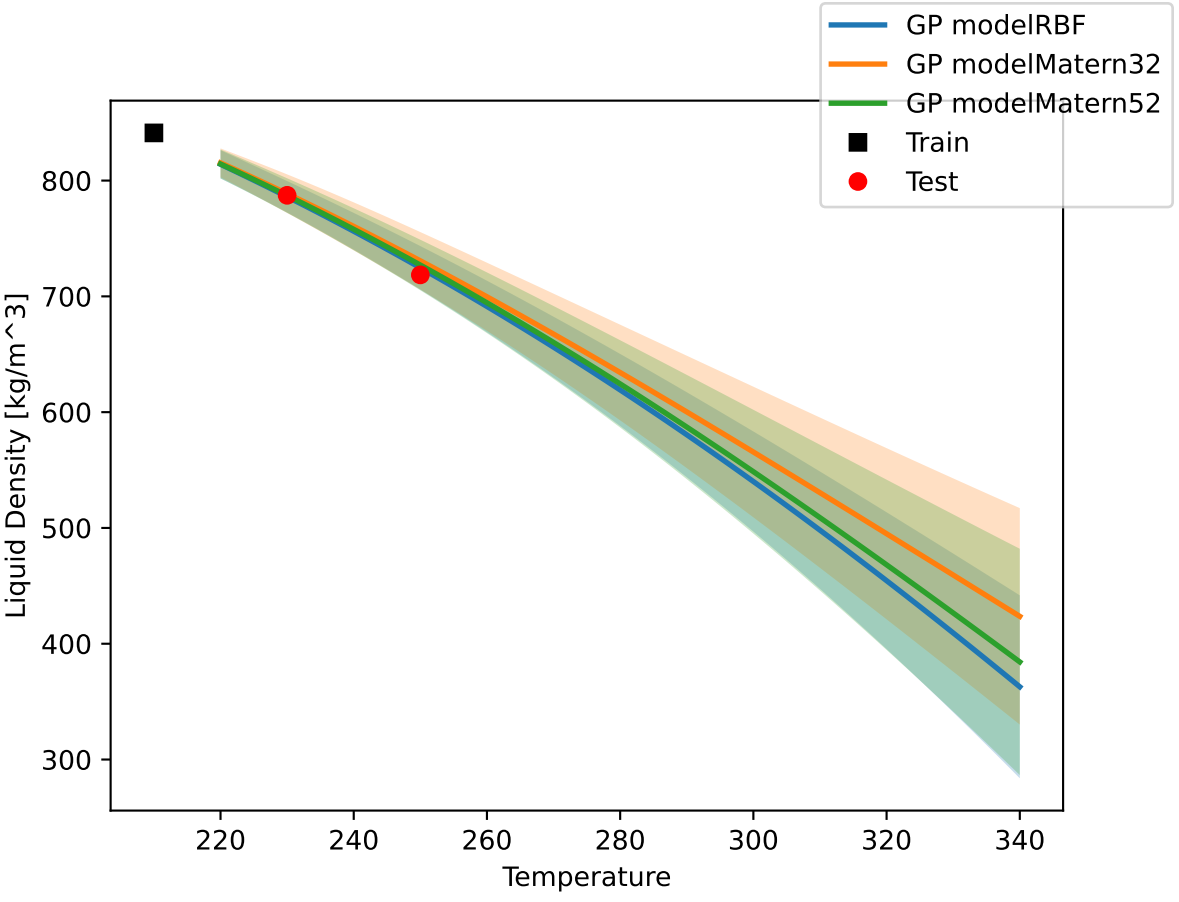
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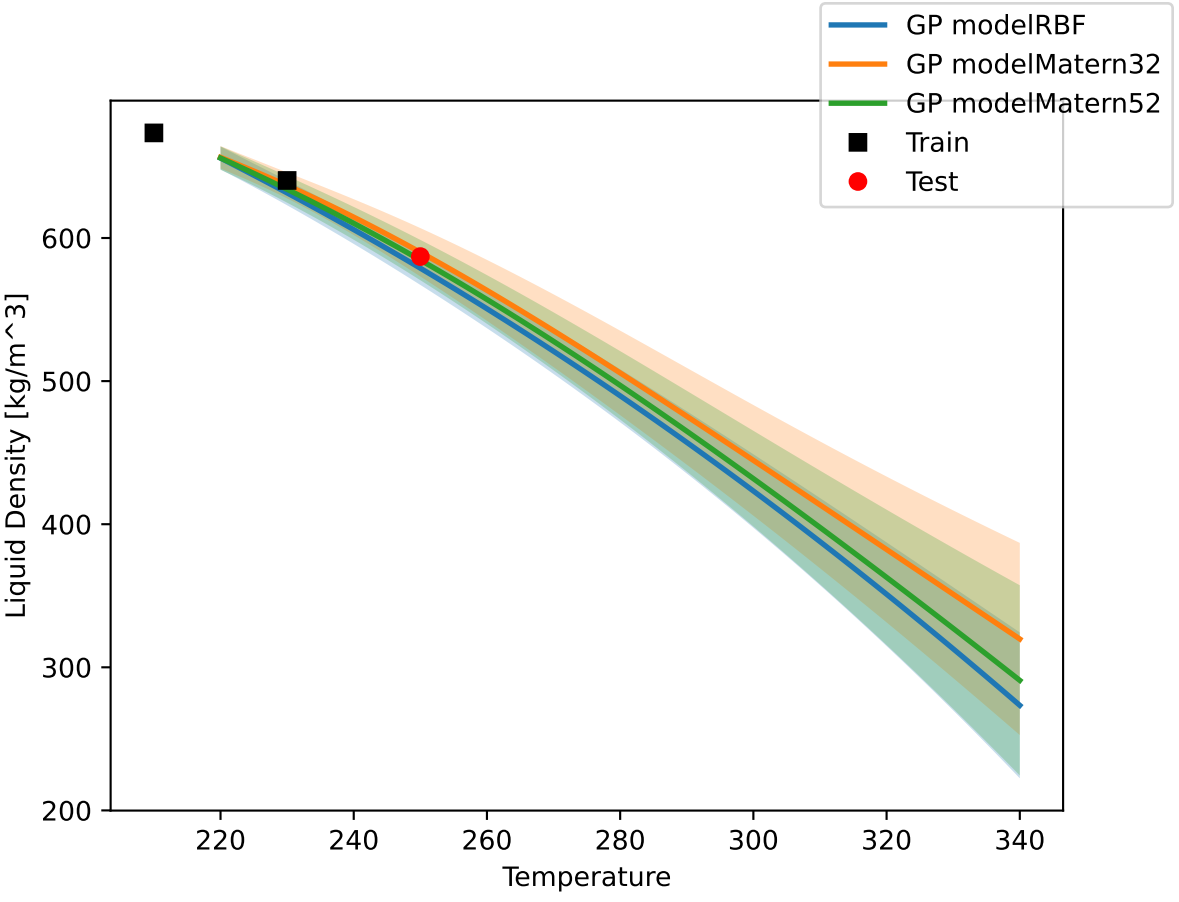
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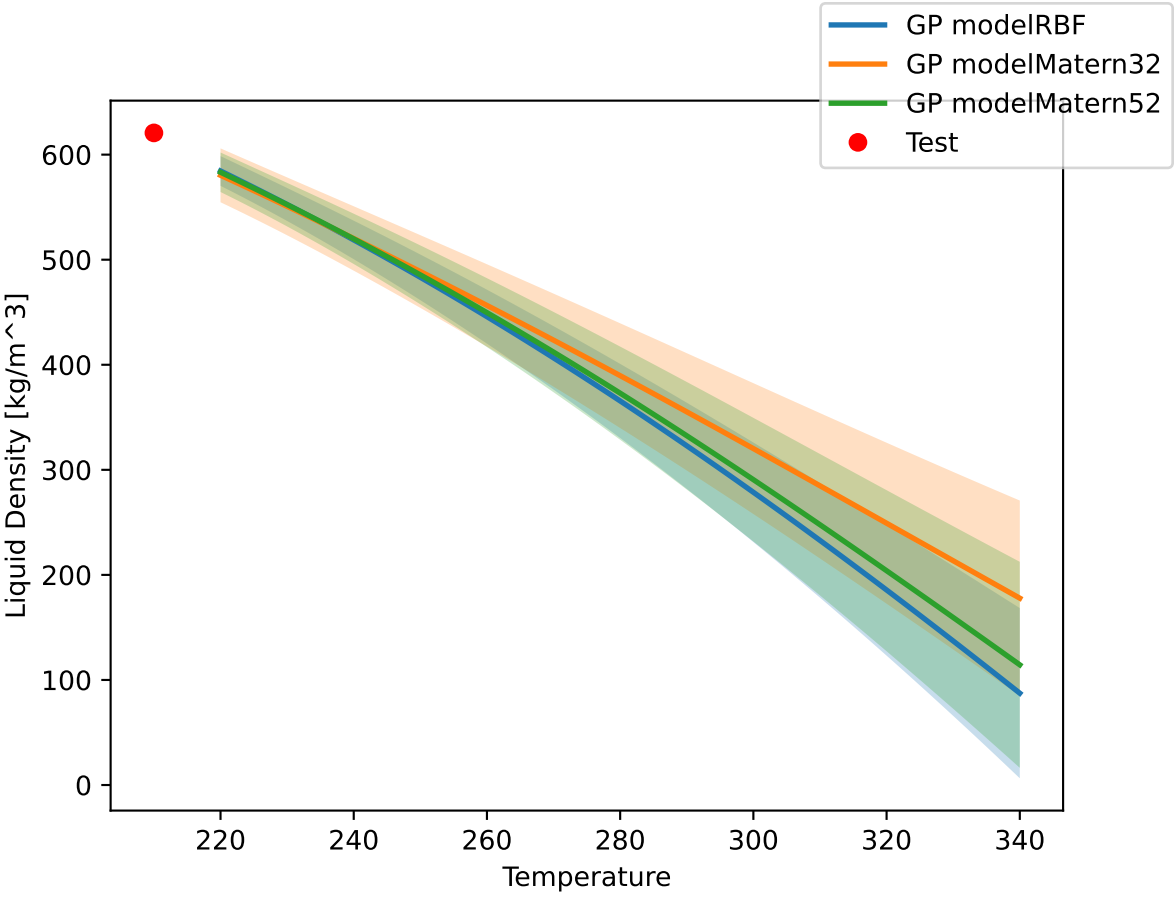
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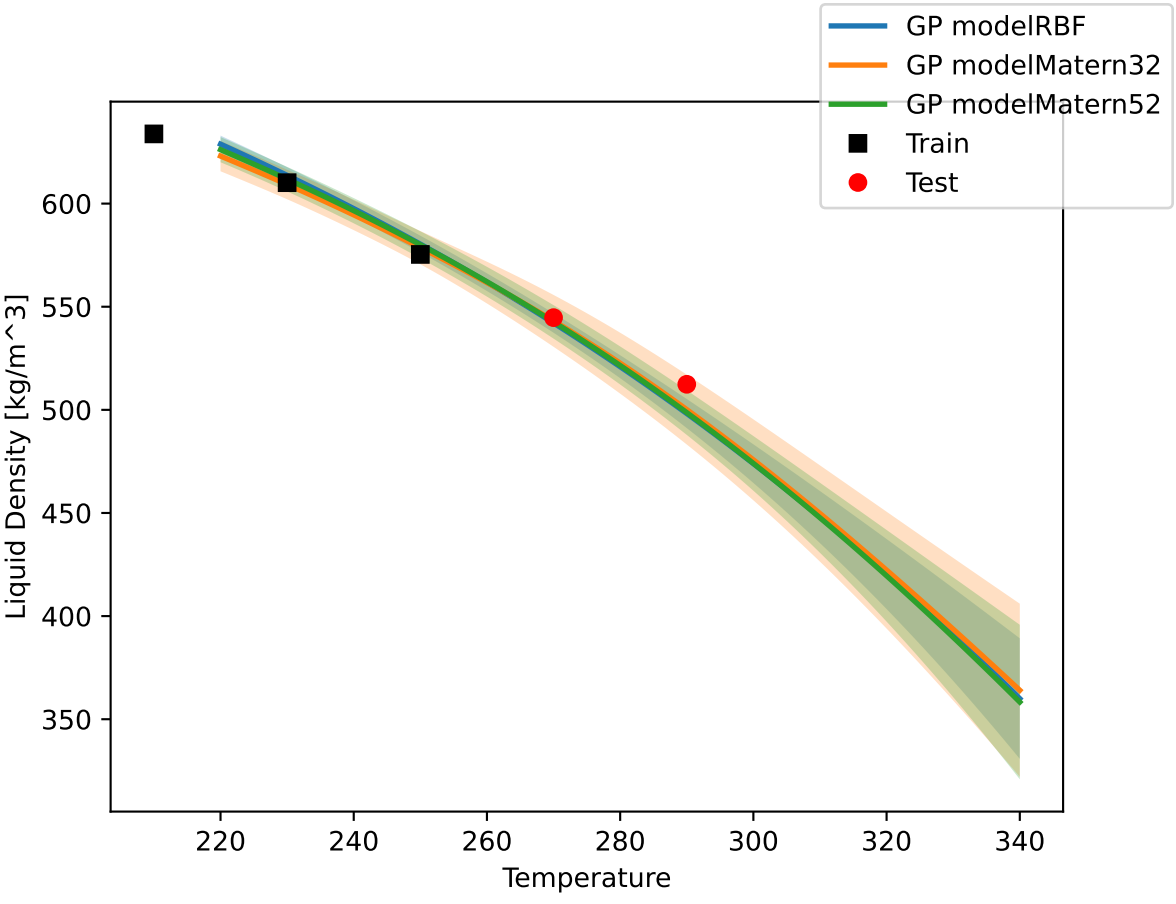
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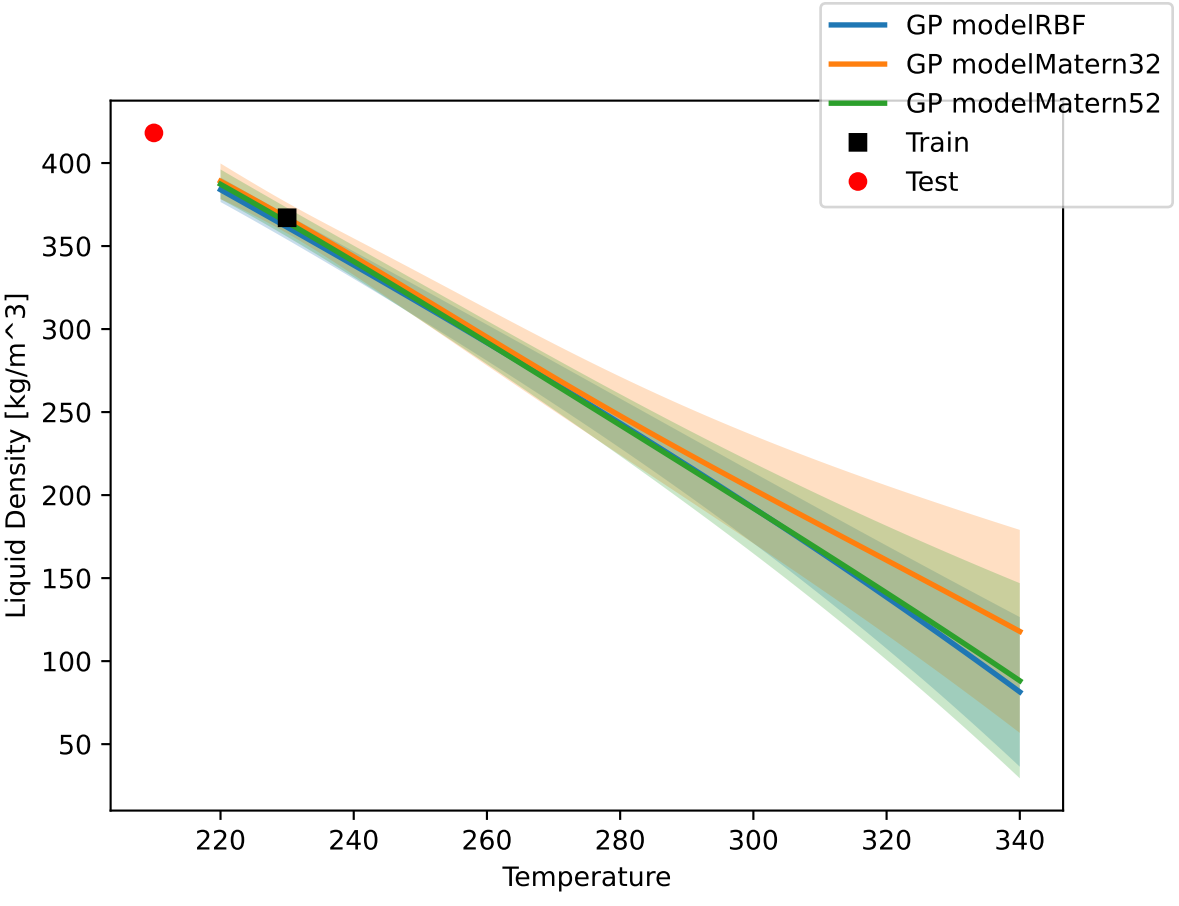
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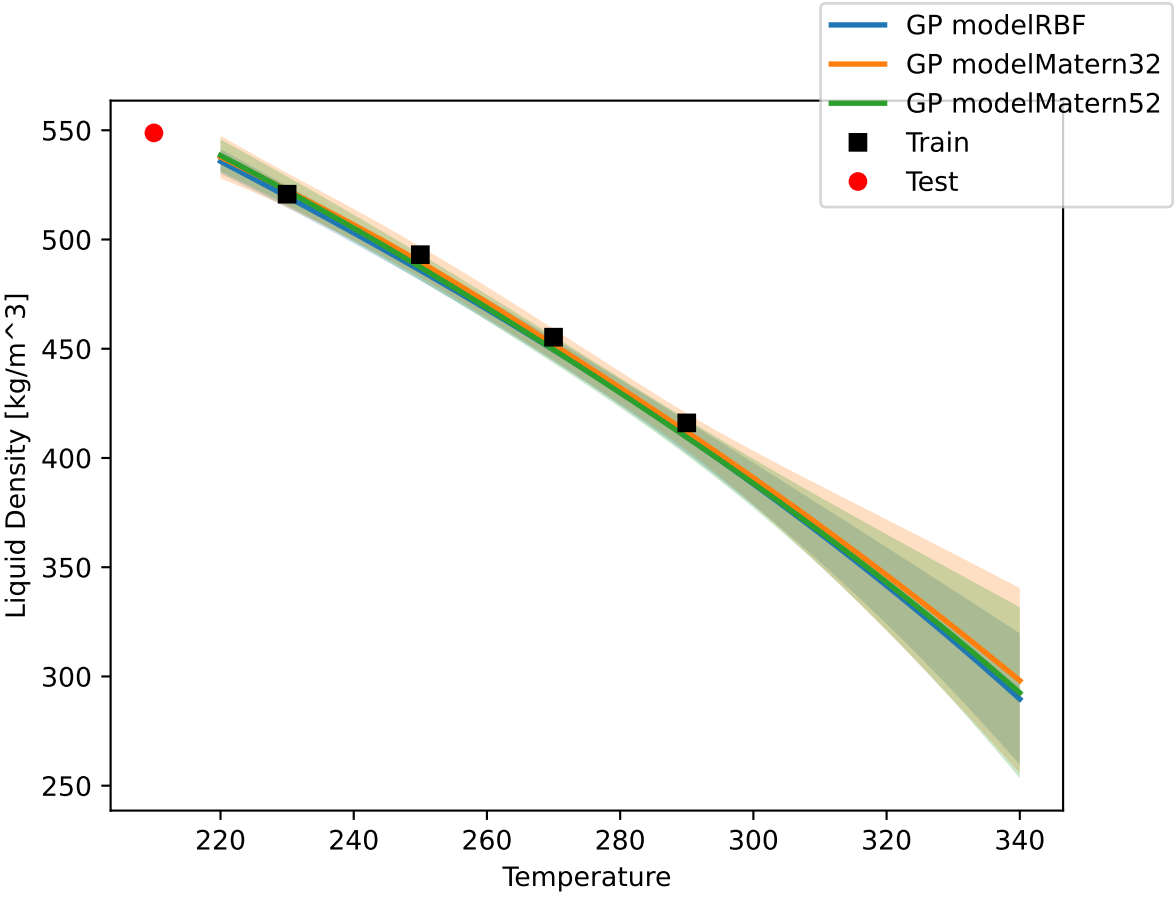
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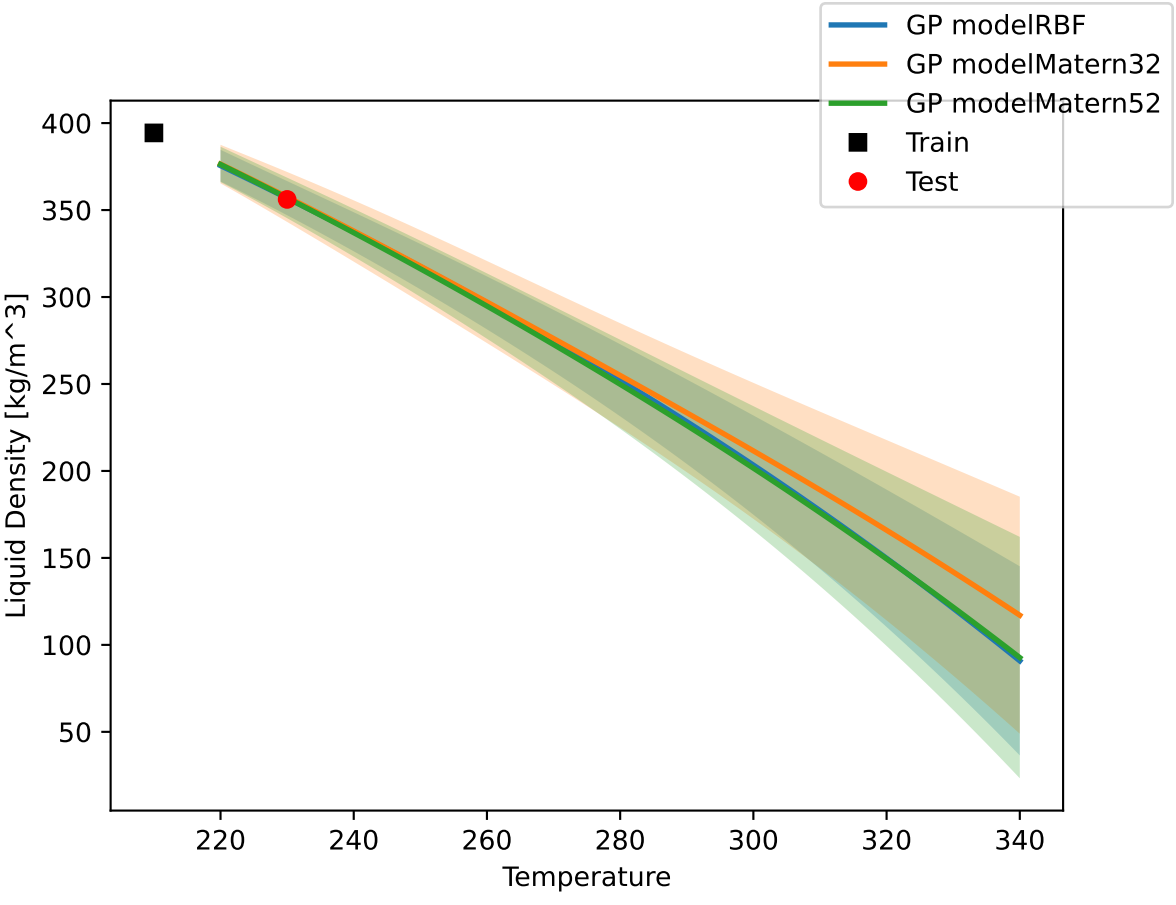
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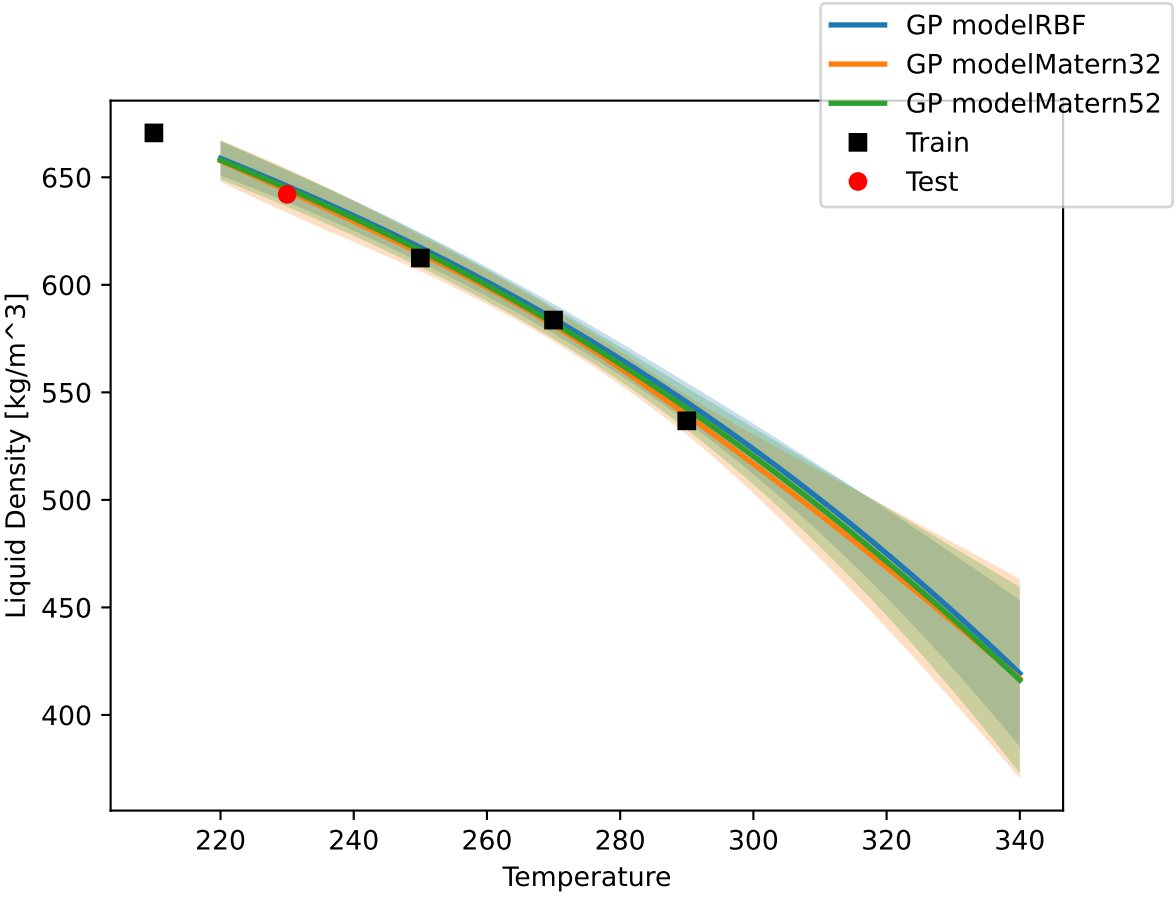
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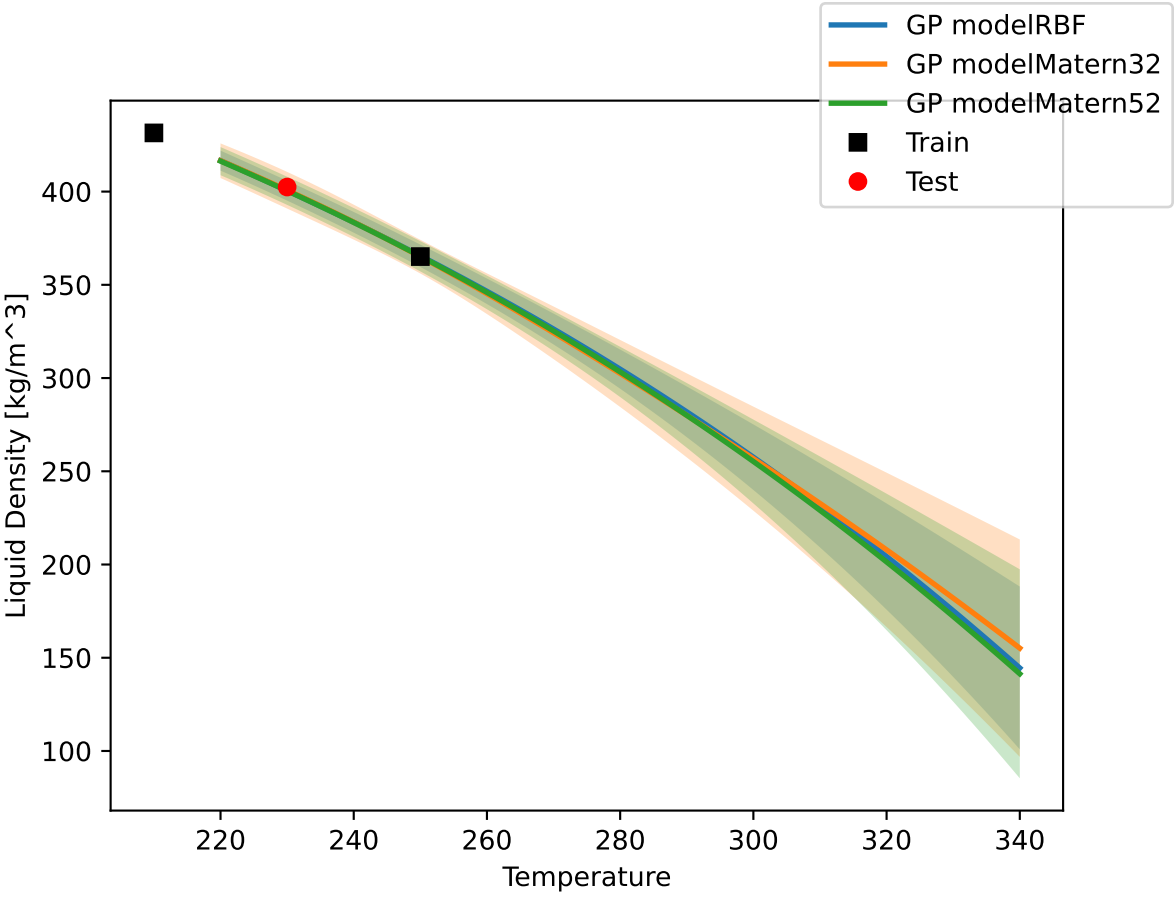
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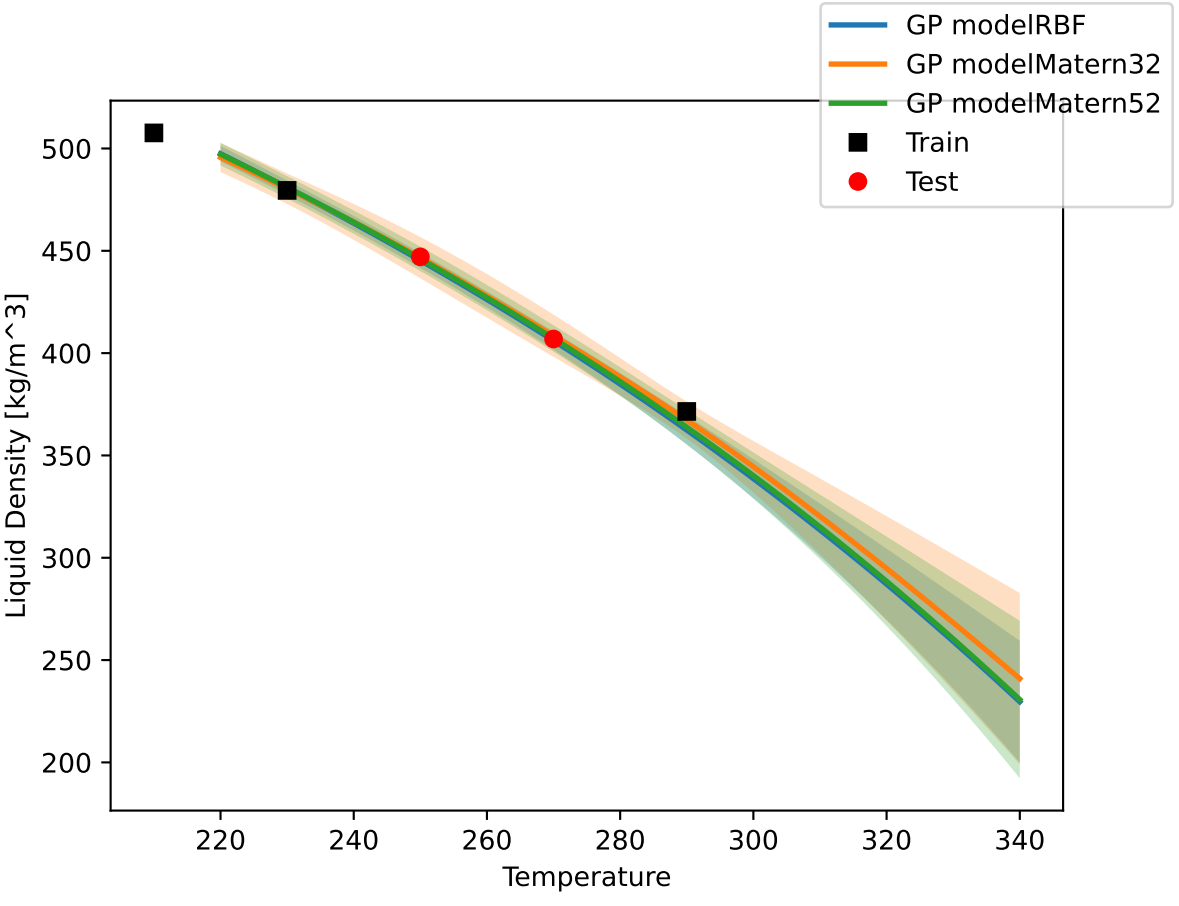
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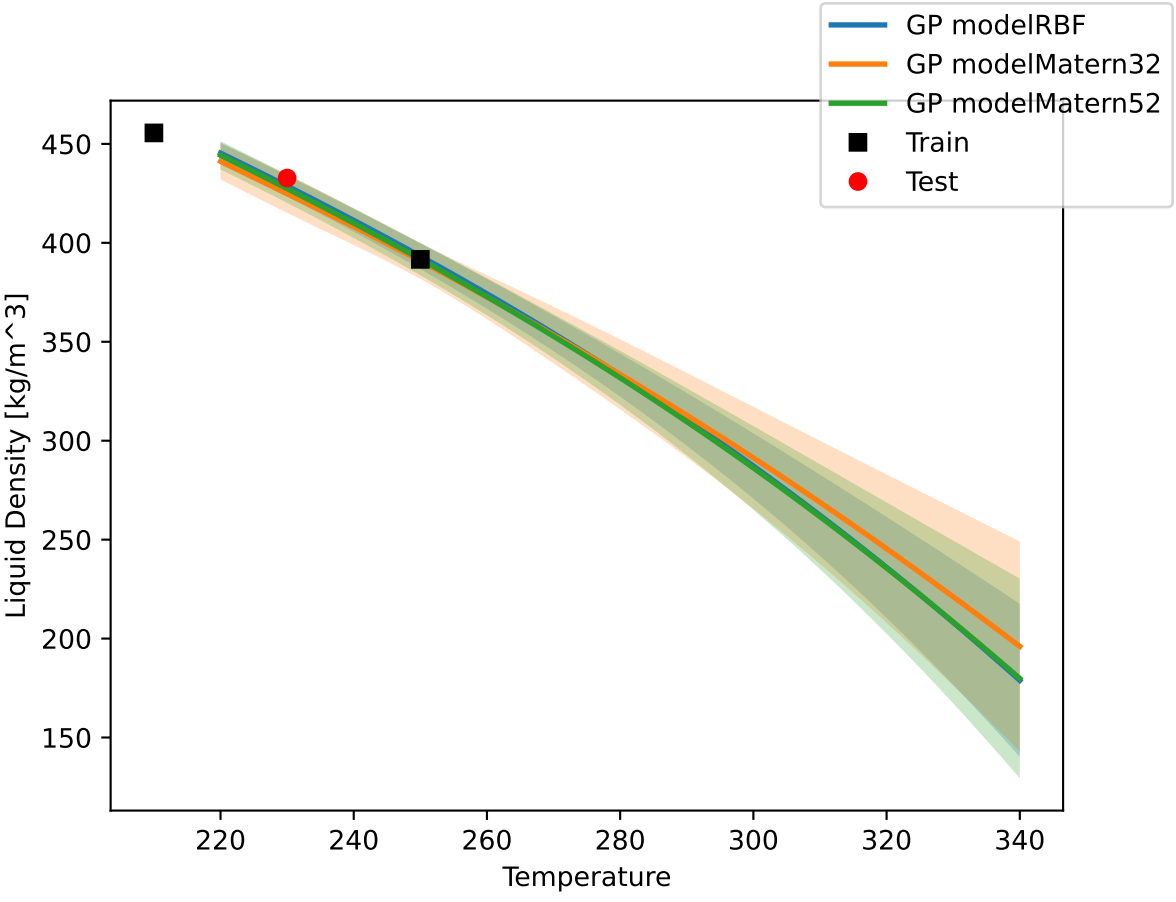
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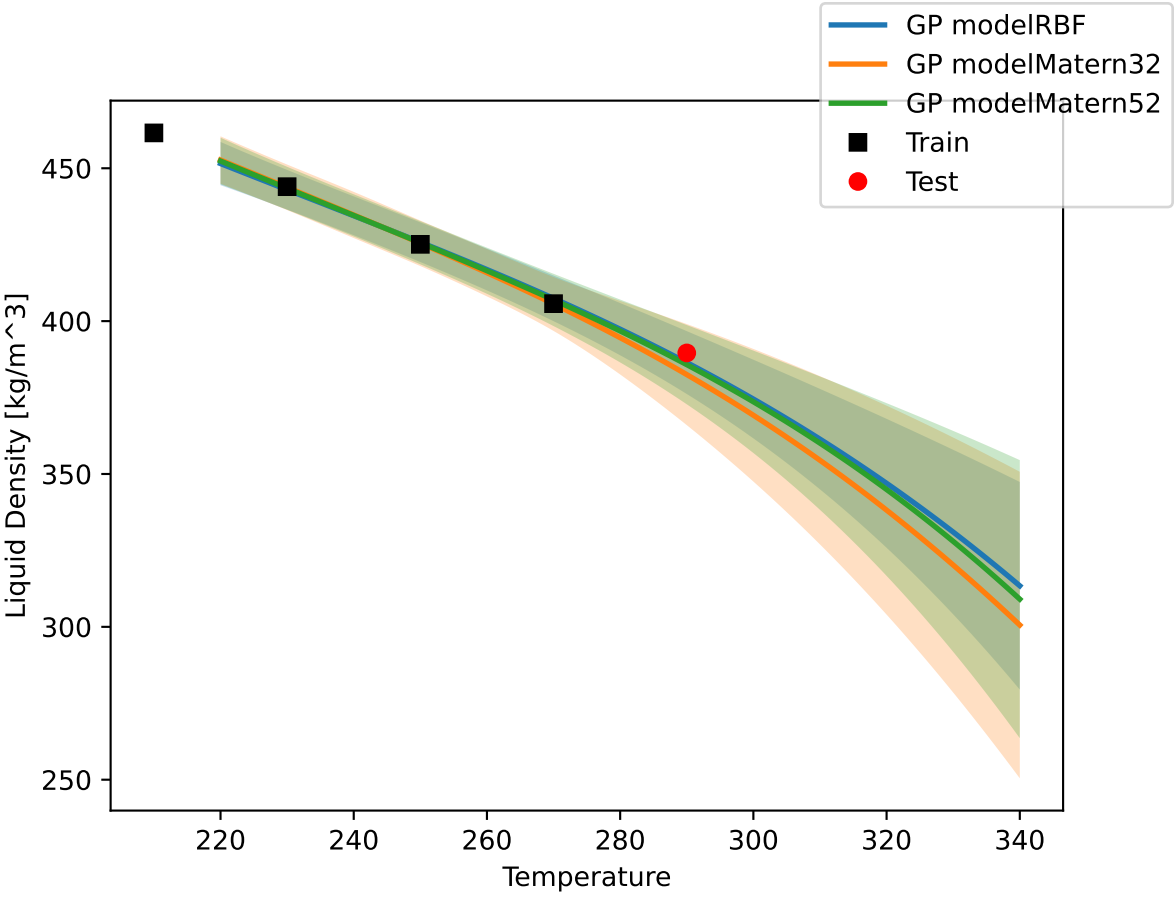
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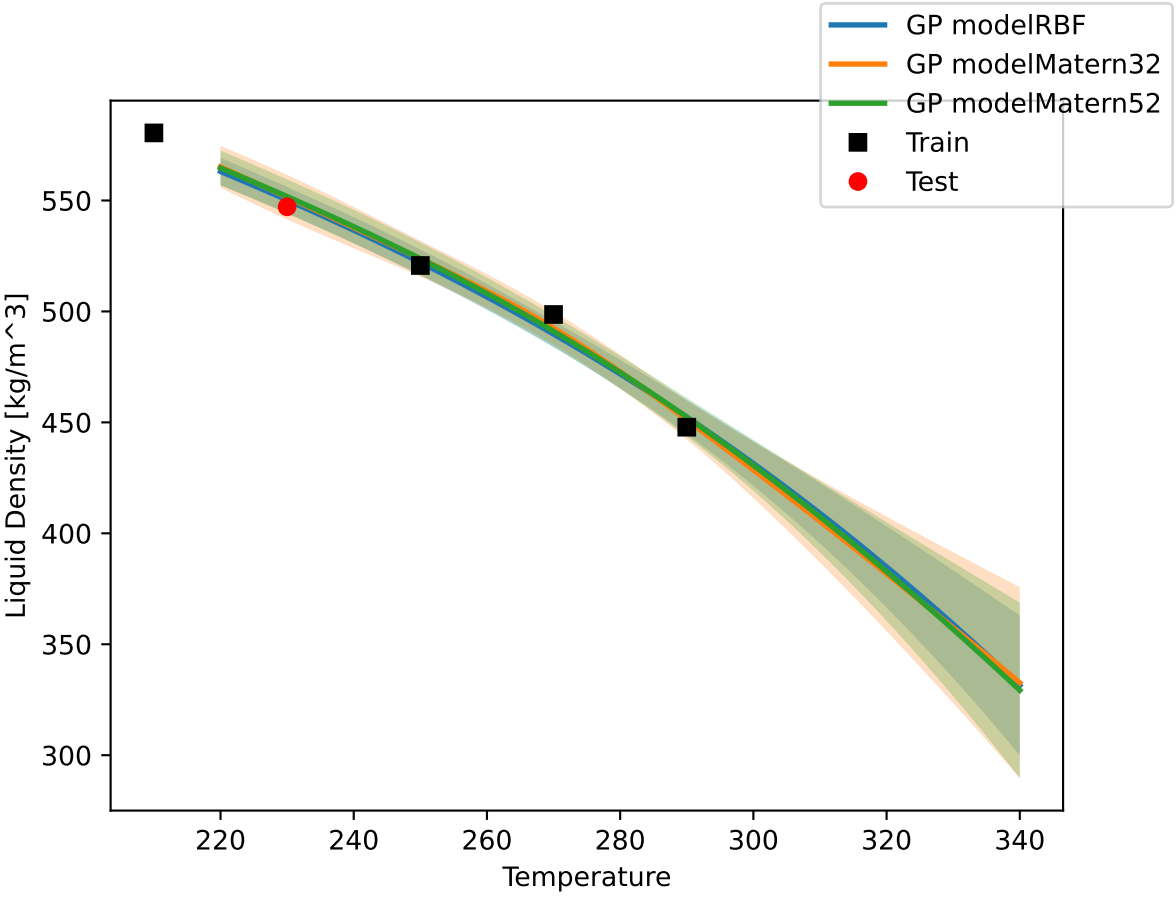
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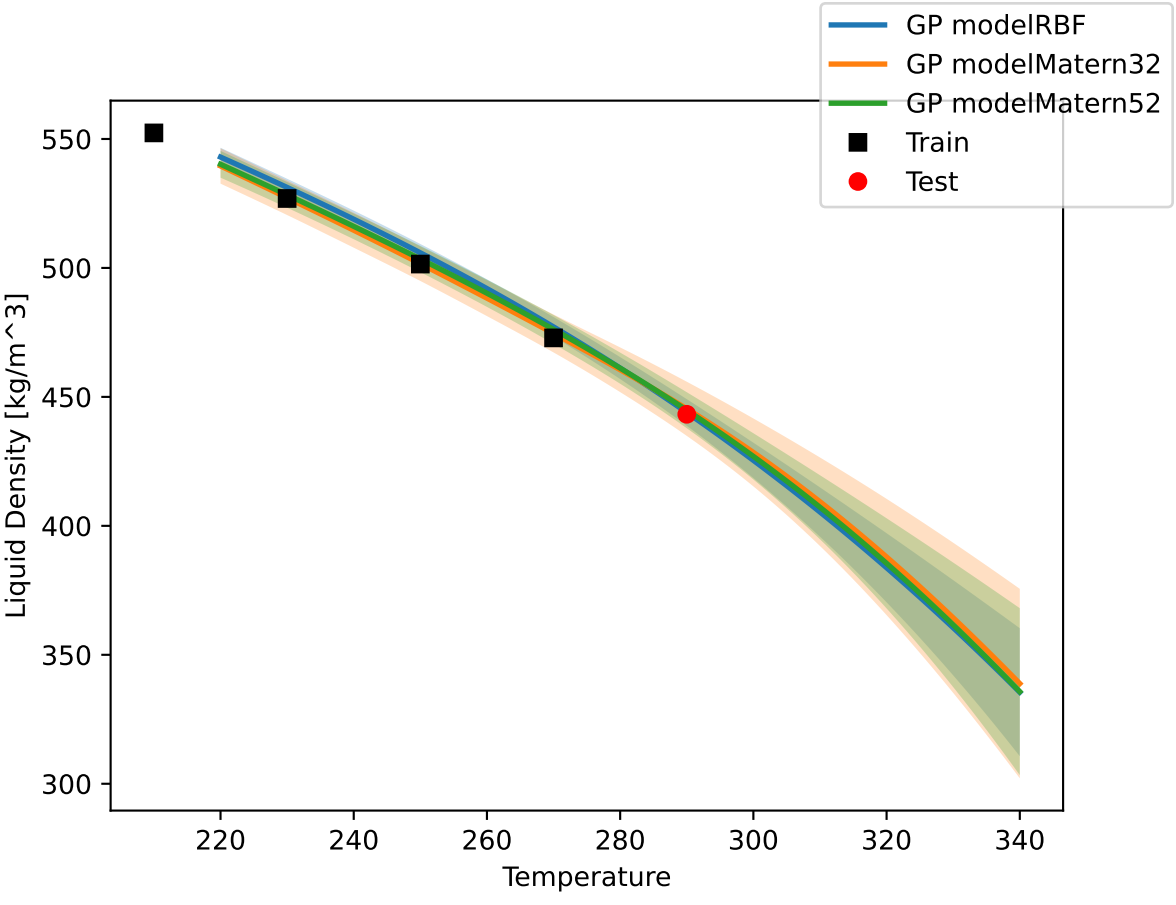
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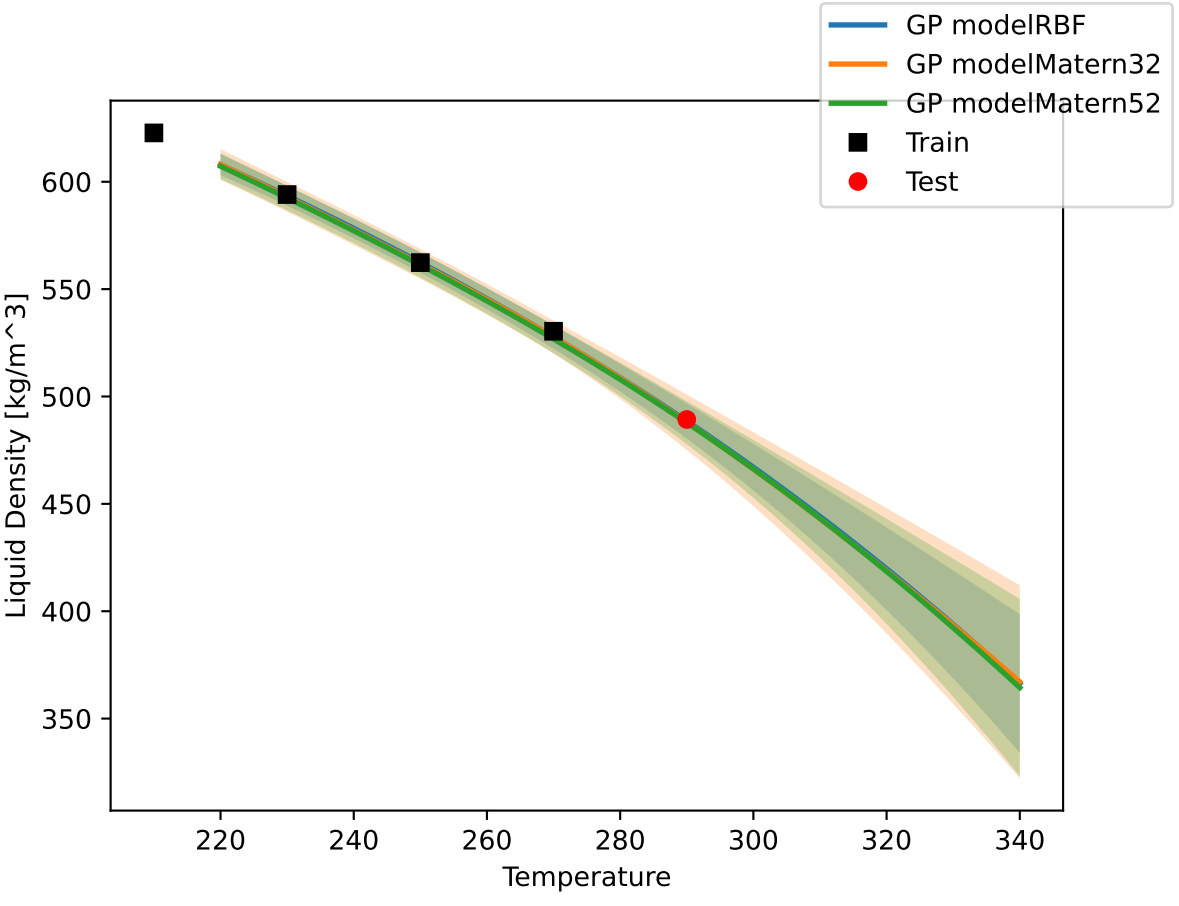
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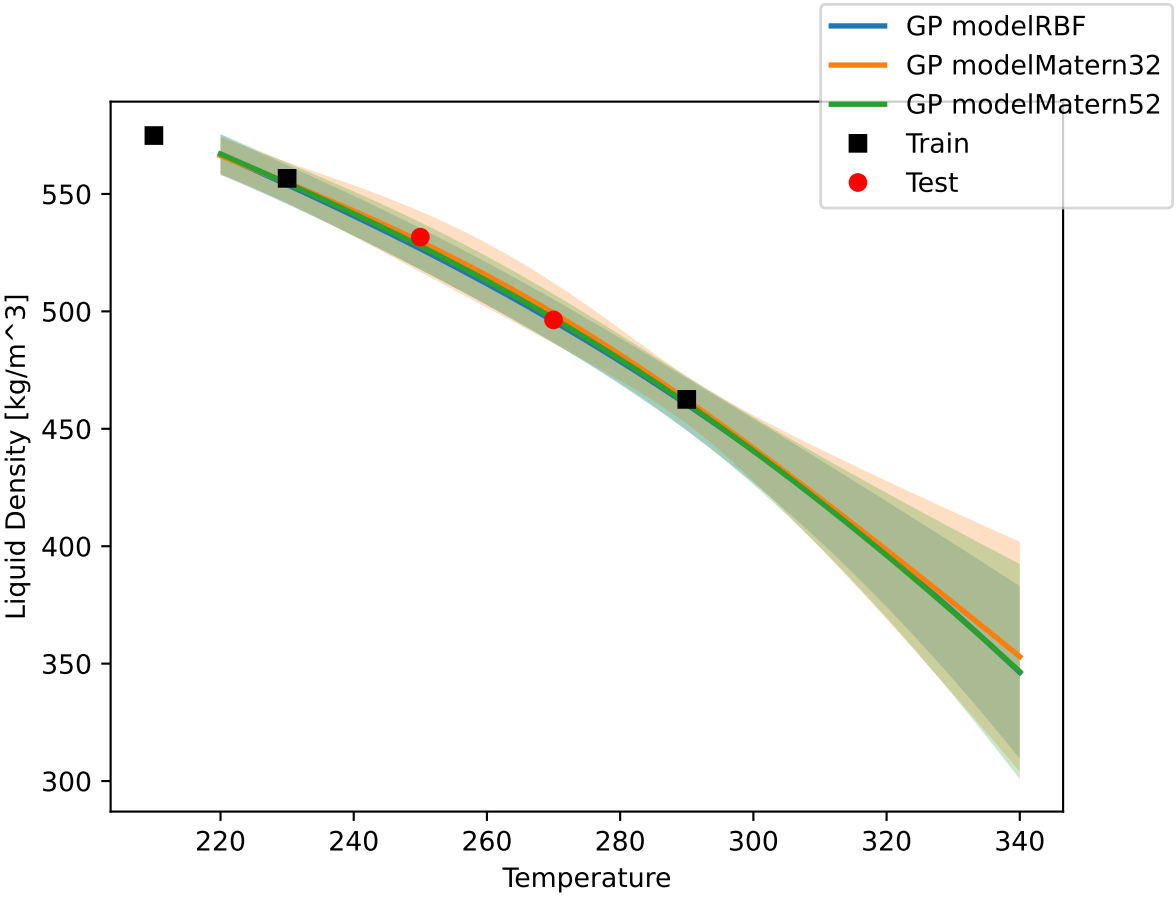
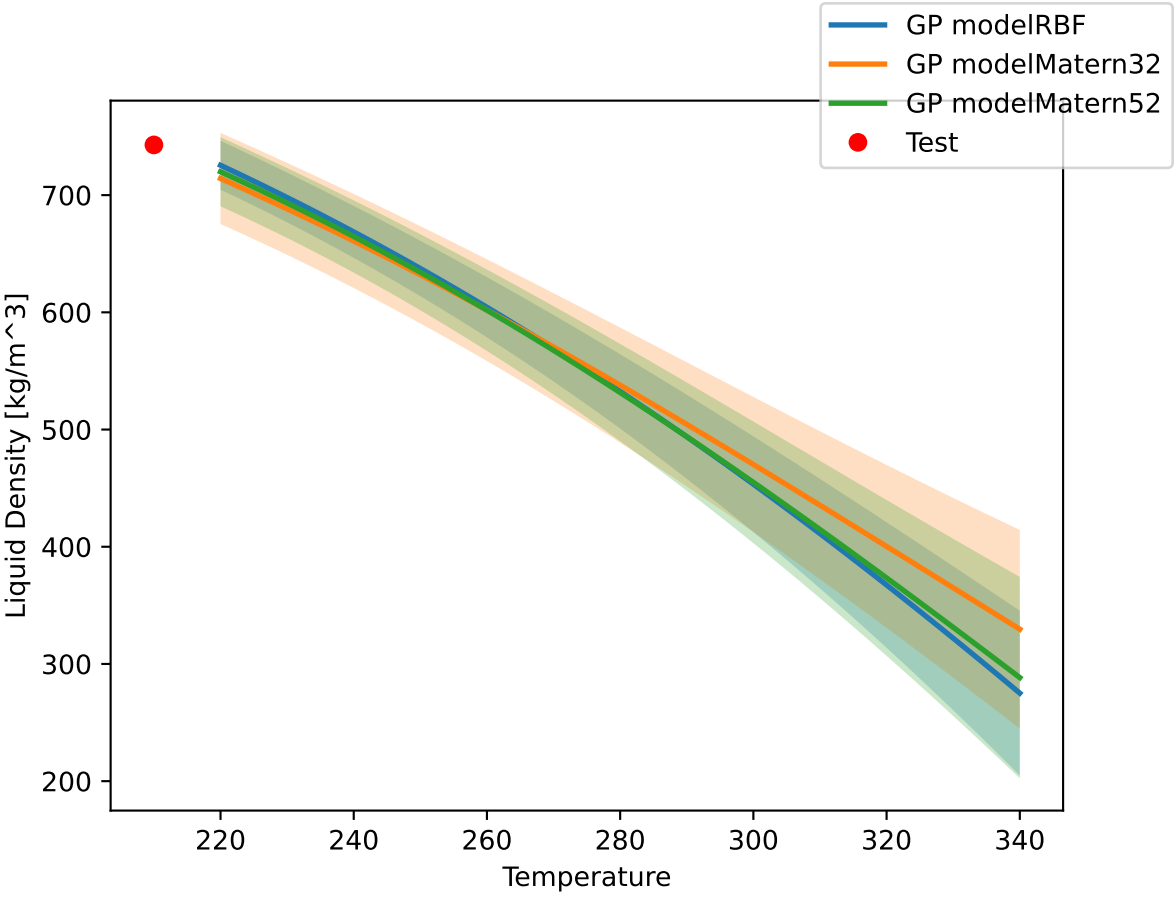
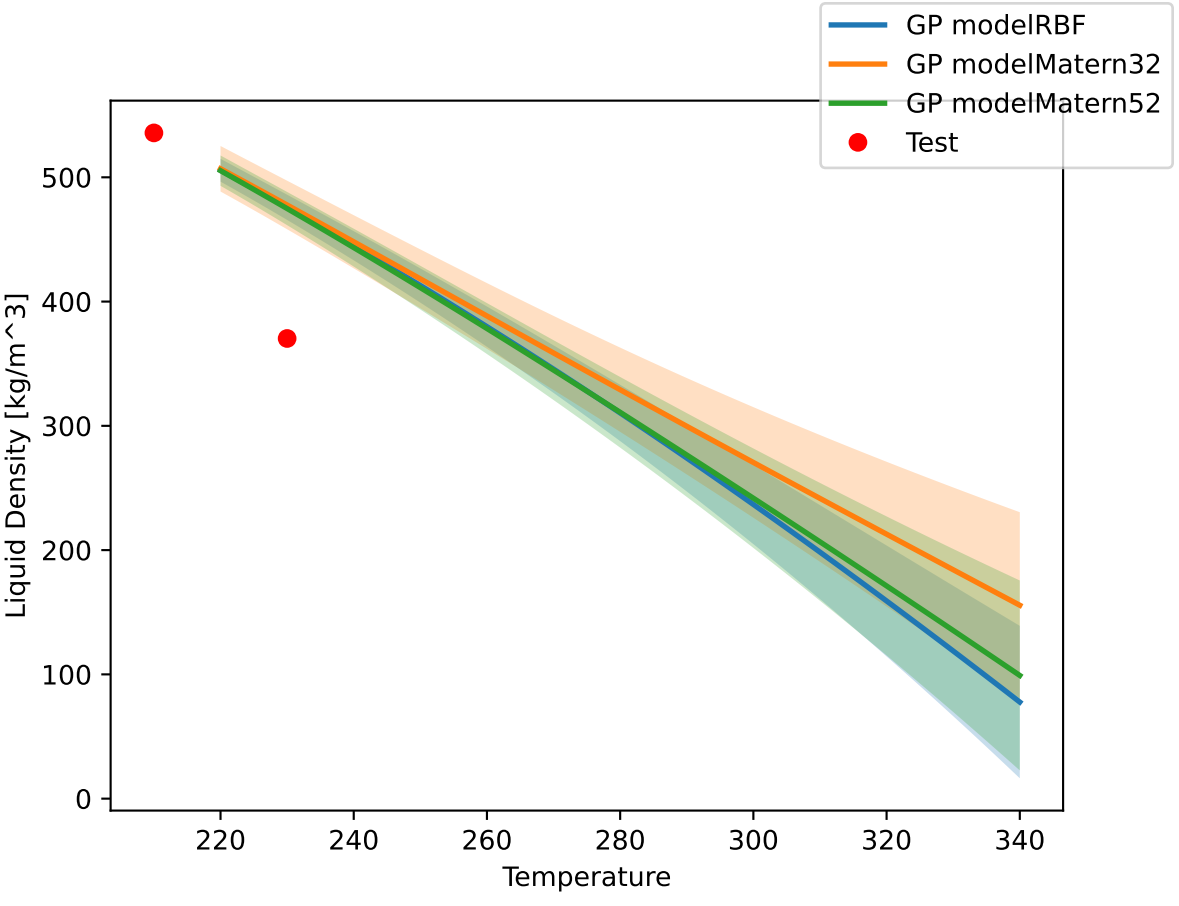
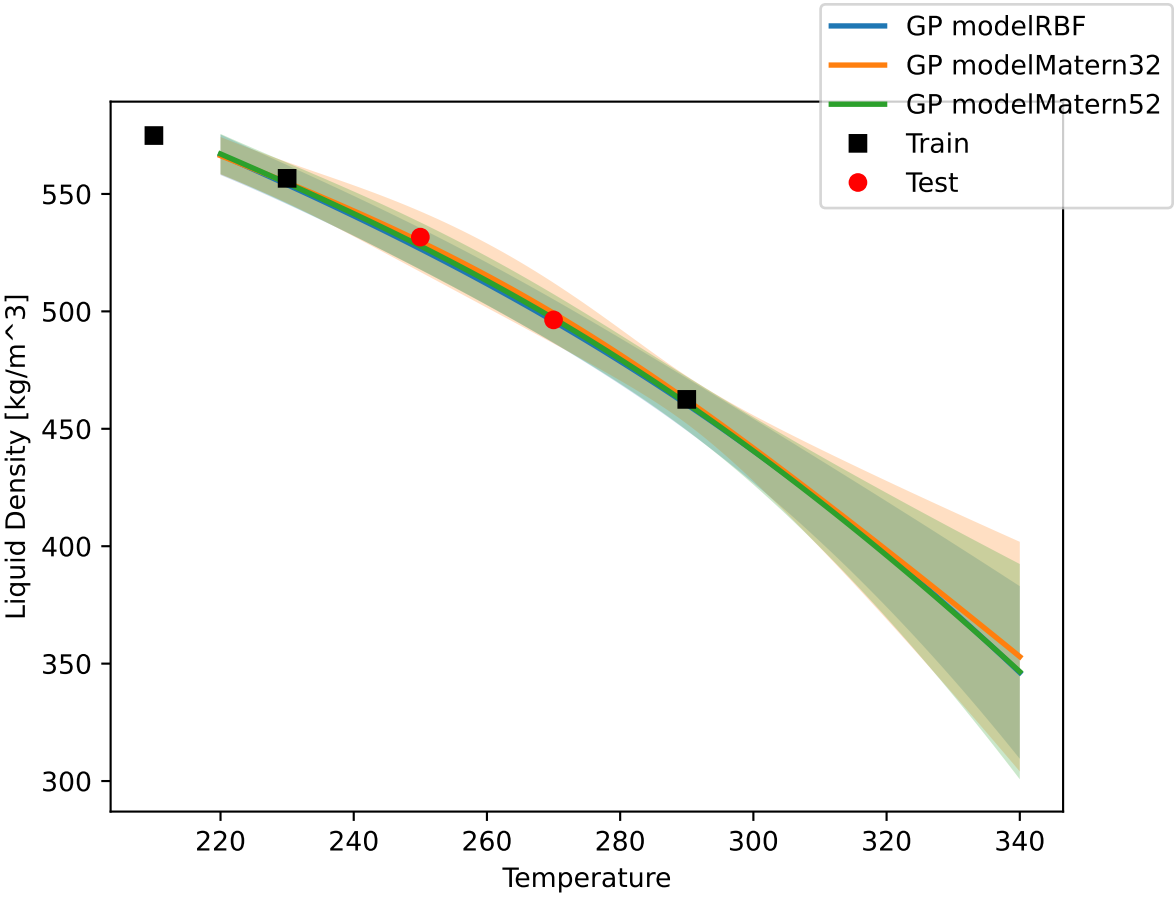
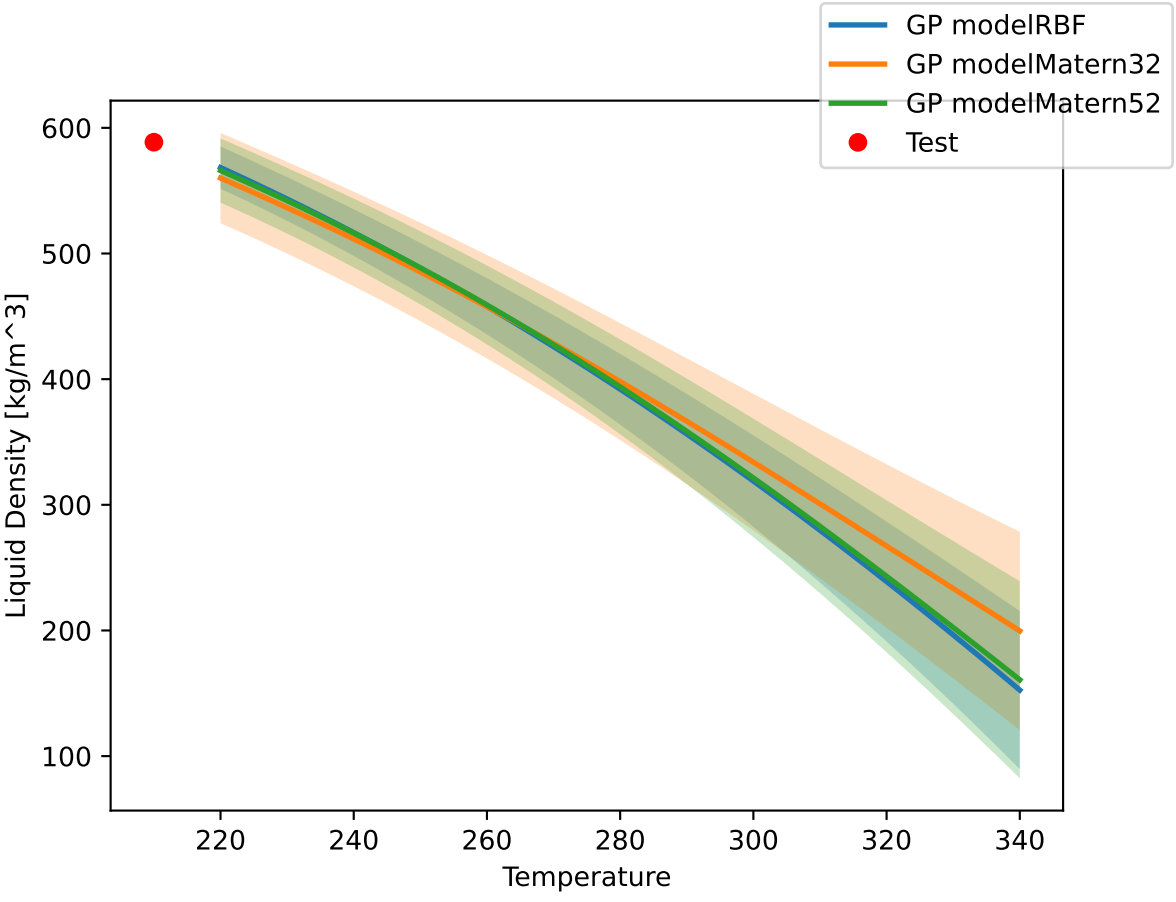
340
Temperature

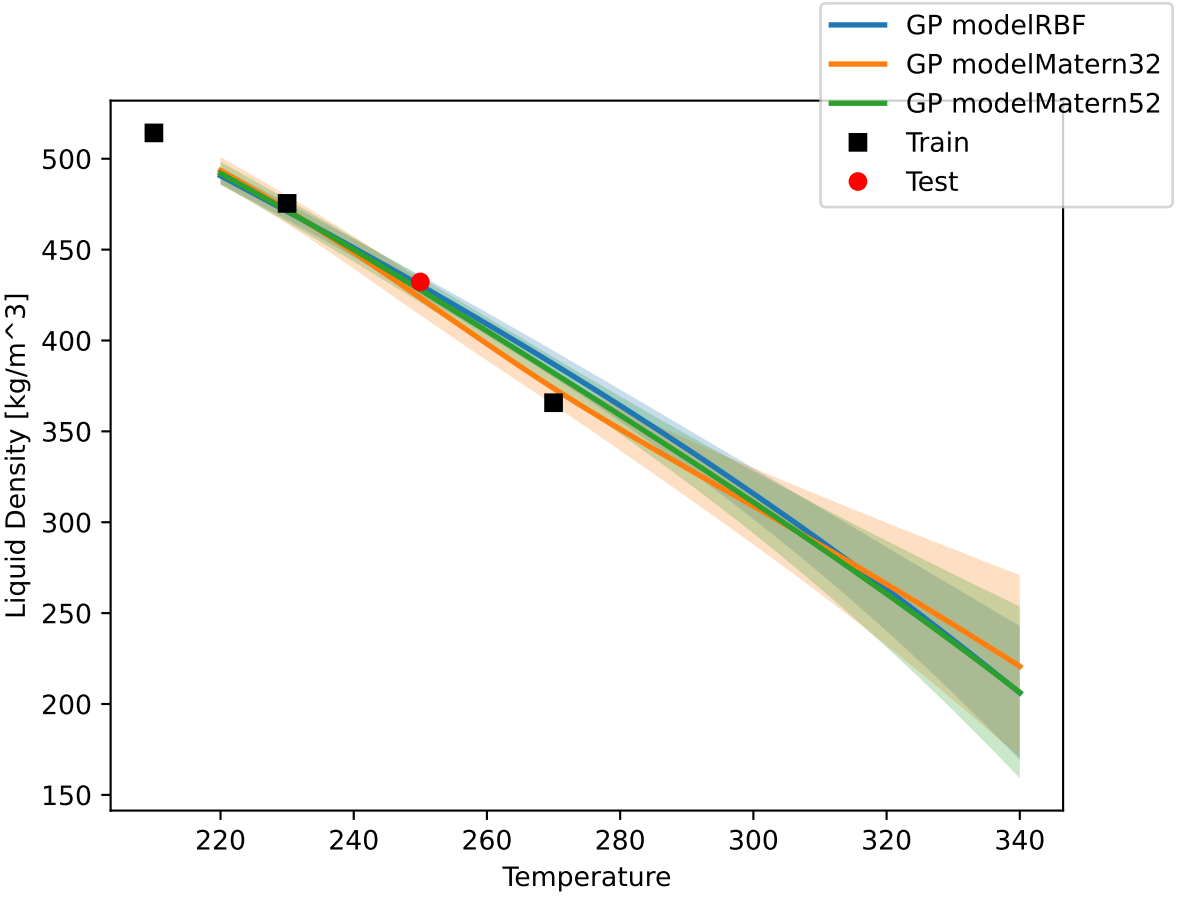

GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
550
500
450
400
350
300
220
240
260
280
300
320
340
Temperature

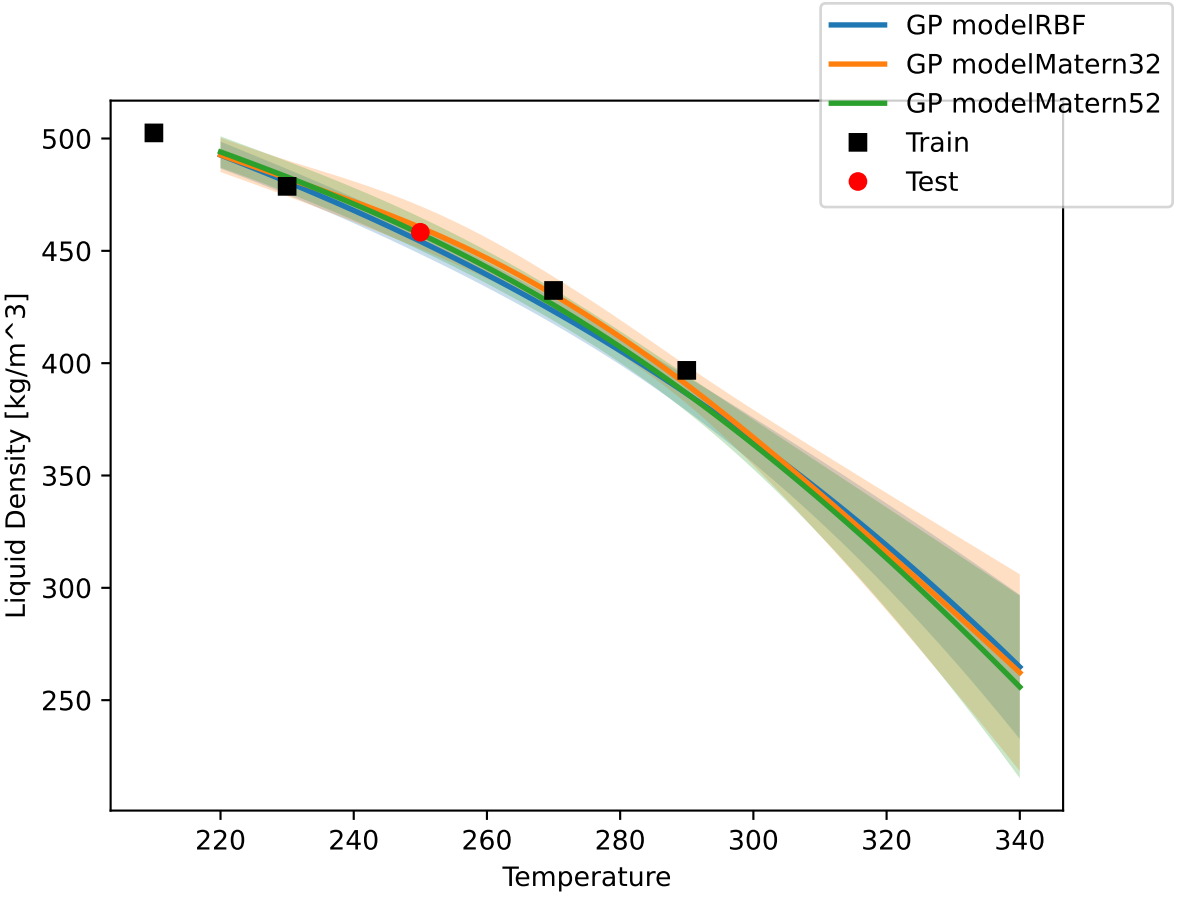

GP modelRBF
GP modelMatern32
GP modelMatern52
Test
Liquid Density [kg/m^3]
700
600
500
400
300
200
220
240
260
280
300
320
340
Temperature

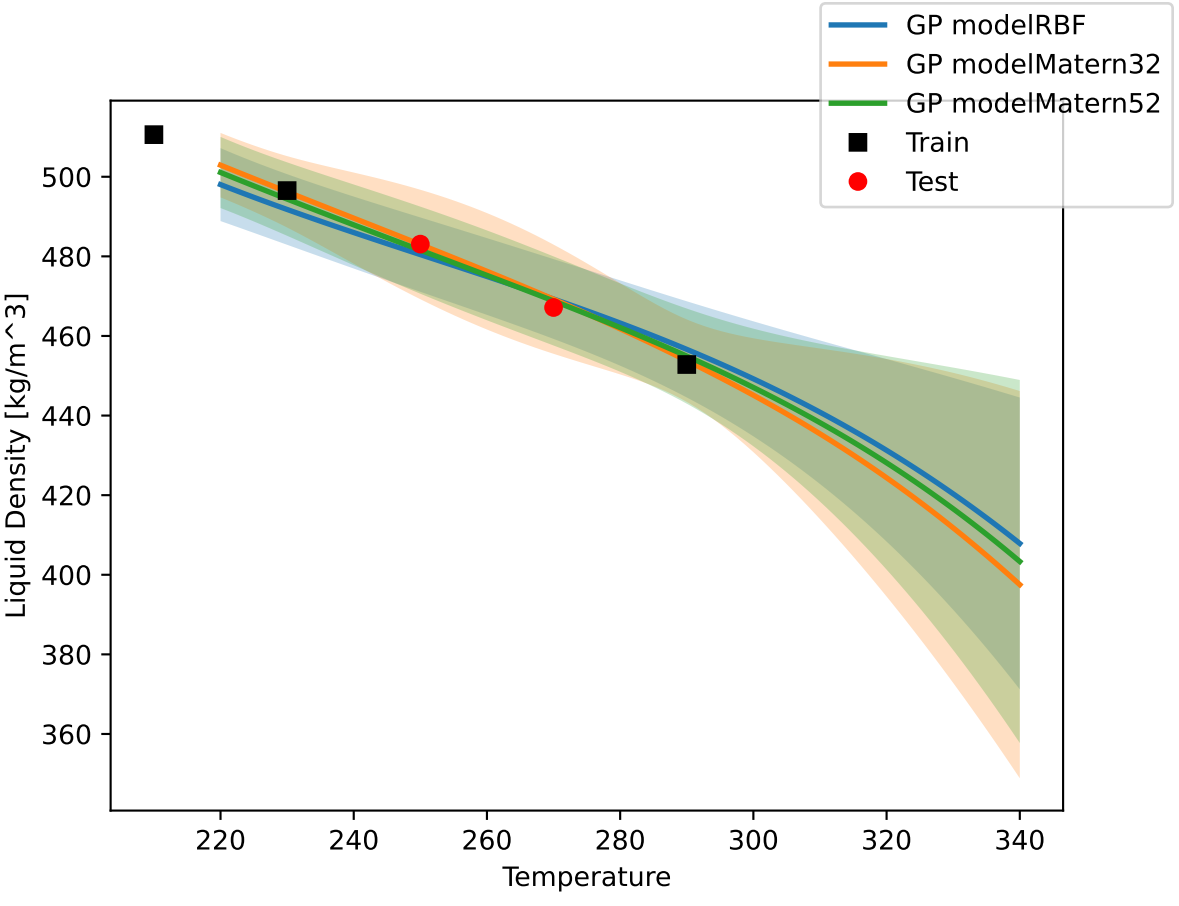

GP modelRBF
GP modelMatern32
GP modelMatern52
Test
Liquid Density [kg/m^3]
0
100
200
300
400
500
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
550
500
450
400
350
300
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Test
Liquid Density [kg/m^3]
600
500
400
300
200
100
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
Temperature
500
450
400
350
300
250
200
150
220
240
260
280
300
320
340


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
450
400
350
300
250
220
240
260
280
300
320
340
Temperature


GP modelRBF
GP modelMatern32
GP modelMatern52
Train
Test
Liquid Density [kg/m^3]
500
480
460
440
420
400
380
360
220
240
260
280
300
320
340
Temperature