

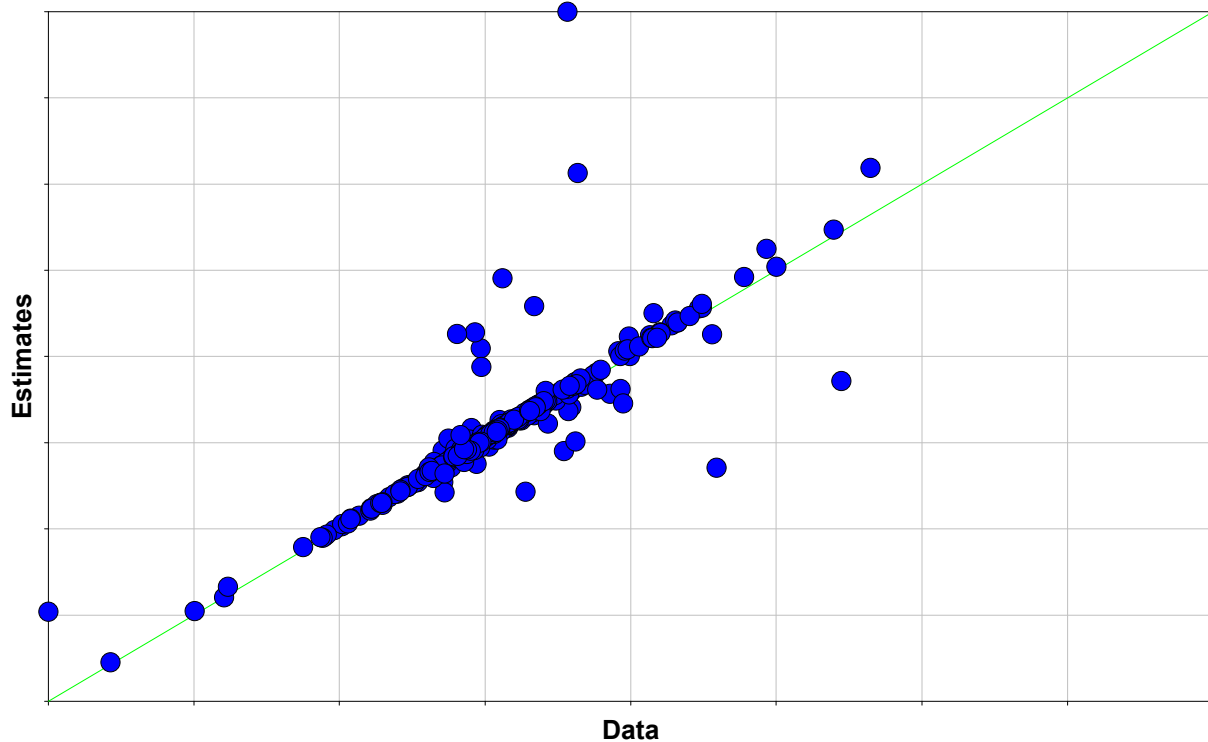
## AcF: Lee + Kesler Relation [MKS]

Evaluated on Mar 20, 2024 at 16:46:04

### Evaluation Statistics

Statistic	Value	Units
Number of Observations	317	---
Average Error	0.018513	---
Average Absolute Error	0.033106	---
Average Absolute % Error	13.174296	%
Maximum Error	1.124540	---
Minimum Error	-0.476443	---
Maximum Absolute Error	1.124540	---
Minimum Absolute Error	0.000068	---

### Estimates vs Data Graph



### Maximum Errors - Sorted by Absolute Percent Error

1) Argon

Datum: 0.001000 ---

Estimate:	0.010302	---
Error:	0.009302	---
2) o-Terphenyl		
Datum:	0.431000	---
Estimate:	1.555540	---
Error:	1.124540	---
3) Carbon dioxide		
Datum:	0.239000	---
Estimate:	0.608107	---
Error:	0.369107	---
4) Methylpyrazine		
Datum:	0.318000	---
Estimate:	0.771971	---
Error:	0.453971	---
5) m-Terphenyl		
Datum:	0.449000	---
Estimate:	1.080717	---
Error:	0.631717	---
6) 2-Methylfuran		
Datum:	0.270000	---
Estimate:	0.612260	---
Error:	0.342260	---
7) 2,3,3,3-Tetrafluoropropene		
Datum:	0.280000	---
Estimate:	0.566068	---
Error:	0.286068	---
8) Pentafluorobenzene		
Datum:	0.373000	---
Estimate:	0.689380	---
Error:	0.316380	---
9) 1-Chloro-1,1,2,2-tetrafluoroethane		
Datum:	0.281000	---
Estimate:	0.510659	---
Error:	0.229659	---
10) Ozone		
Datum:	0.691000	---
Estimate:	0.214557	---

Error:	-0.476443	---
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### Minimum Errors - Sorted by Absolute Percent Error

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#### 1) Phosgene

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Datum:	0.205000	---
Estimate:	0.204856	---
Error:	-0.000144	---

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#### 2) Hydrogen bromide

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Datum:	0.088000	---
Estimate:	0.088068	---
Error:	0.000068	---

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#### 3) 1-Chloropropane

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Datum:	0.235000	---
Estimate:	0.234800	---
Error:	-0.000200	---

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#### 4) Mercury

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Datum:	-0.167000	---
Estimate:	-0.167204	---
Error:	-0.000204	---

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#### 5) N,N-Dimethylaniline

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Datum:	0.411000	---
Estimate:	0.411595	---
Error:	0.000595	---

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#### 6) Phenol

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Datum:	0.438000	---
Estimate:	0.438861	---
Error:	0.000861	---

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#### 7) 1,1-Difluoroethane

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Datum:	0.256000	---
Estimate:	0.255422	---
Error:	-0.000578	---

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#### 8) Tetramethylsilane

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Datum:	0.242000	---
Estimate:	0.243197	---
Error:	0.001197	---

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9) 1,1-Dichlorotetrafluoroethane

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Datum:	0.263000	---
Estimate:	0.264420	---
Error:	0.001420	---

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10) Ethyl butyrate

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Datum:	0.461000	---
Estimate:	0.458309	---
Error:	-0.002691	---

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Estimated using the Lee + Kesler Relation [MKS] for the Acentric Factor. Referenced in: Byung I. Lee and Michael G. Kesler. "A Generalized Thermodynamic Correlation based on Three-Parameter Corresponding States." AIChE Journal. Volume 21, number 3, page 510-527, 1975.