

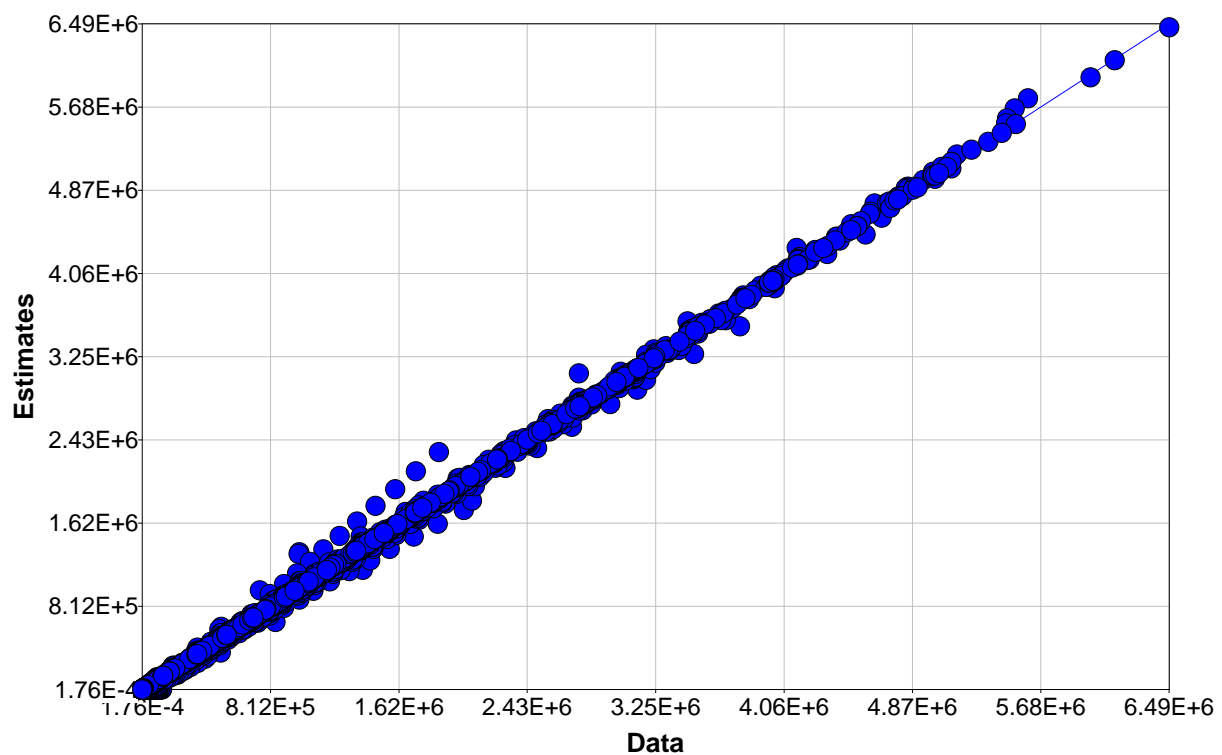
Pvp,I (T): Lee + Kesler Equation

Evaluated on Aug 08, 2016 at 00:15:57

Evaluation Statistics

Statistic	Value	Units
Number of Observations	2213	- - -
Average Error	-3410.65715	Pa
Average Absolute Error	14279.86027	Pa
Average Absolute % Error	12.78900	%
Maximum Error	440012.65449	Pa
Minimum Error	-281827.60051	Pa
Maximum Absolute Error	440012.65449	Pa
Minimum Absolute Error	0.00024	Pa

Estimates vs Data Graph



Maximum Errors

1) Dibutyl ether

Temperature: 566.48333 K

Datum:	1875373.90400	Pa
Estimate:	2315386.55849	Pa
Error:	440012.65449	Pa

2) Dibutyl ether

Temperature:	560.92778	K
Datum:	1730584.00700	Pa
Estimate:	2128201.91800	Pa
Error:	397617.91100	Pa

3) Dibutyl ether

Temperature:	555.37222	K
Datum:	1599583.62400	Pa
Estimate:	1953781.46773	Pa
Error:	354197.84373	Pa

4) 1,2-Benzenediol

Temperature:	640.90000	K
Datum:	992800.00000	Pa
Estimate:	1340354.95475	Pa
Error:	347554.95475	Pa

5) 1,2-Benzenediol

Temperature:	640.10000	K
Datum:	988900.00000	Pa
Estimate:	1322732.69481	Pa
Error:	333832.69481	Pa

6) Butyl acrylate

Temperature:	599.10000	K
Datum:	2761000.00000	Pa
Estimate:	3082260.73802	Pa
Error:	321260.73802	Pa

7) Dibutyl ether

Temperature:	549.81667	K
Datum:	1475477.99800	Pa
Estimate:	1791285.00761	Pa
Error:	315807.00961	Pa

8) Dibutyl ether

Temperature:	544.26111	K
Datum:	1358267.12900	Pa

Estimate:	1639946.74071	Pa
Error:	281679.61171	Pa

9) Dibutyl ether

Temperature:	538.70556	K
Datum:	1247951.01700	Pa
Estimate:	1499066.64563	Pa
Error:	251115.62863	Pa

10) 1,2-Benzenediol

Temperature:	621.80000	K
Datum:	742900.00000	Pa
Estimate:	966383.78707	Pa
Error:	223483.78707	Pa

Minimum Errors

1) Pyrrole

Temperature:	544.26111	K
Datum:	2033953.31500	Pa
Estimate:	1752125.71449	Pa
Error:	-281827.60051	Pa

2) Pyrrole

Temperature:	538.70556	K
Datum:	1868479.14700	Pa
Estimate:	1617548.23395	Pa
Error:	-250930.91305	Pa

3) 2-Aminoethoxyethanol

Temperature:	653.90000	K
Datum:	2085000.00000	Pa
Estimate:	1840820.50556	Pa
Error:	-244179.49444	Pa

4) 1,2-Dimethoxyethane

Temperature:	533.15000	K
Datum:	3778326.83600	Pa
Estimate:	3541517.87557	Pa
Error:	-236808.96043	Pa

5) 2-Aminoethoxyethanol

Temperature:	625.90000	K
Datum:	1395000.00000	Pa
Estimate:	1167541.90266	Pa
Error:	-227458.09734	Pa

6) Pyrrole

Temperature:	533.15000	K
Datum:	1716794.49300	Pa
Estimate:	1490743.81389	Pa
Error:	-226050.67911	Pa

7) 1,2-Dimethoxyethane

Temperature:	527.59444	K
Datum:	3488747.04200	Pa
Estimate:	3271663.95911	Pa
Error:	-217083.08289	Pa

8) 2-Aminoethoxyethanol

Temperature:	685.00000	K
Datum:	3130000.00000	Pa
Estimate:	2923475.42477	Pa
Error:	-206524.57523	Pa

9) Pyrrole

Temperature:	527.59444	K
Datum:	1565109.83900	Pa
Estimate:	1371408.55883	Pa
Error:	-193701.28017	Pa

10) 2-Aminoethoxyethanol

Temperature:	594.20000	K
Datum:	842600.00000	Pa
Estimate:	657430.73625	Pa
Error:	-185169.26375	Pa

References

1) Estimated using Lee + Kesler Equation for the Vapor Pressure, Liquid - $f(T)$. 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.
