

Report Pages

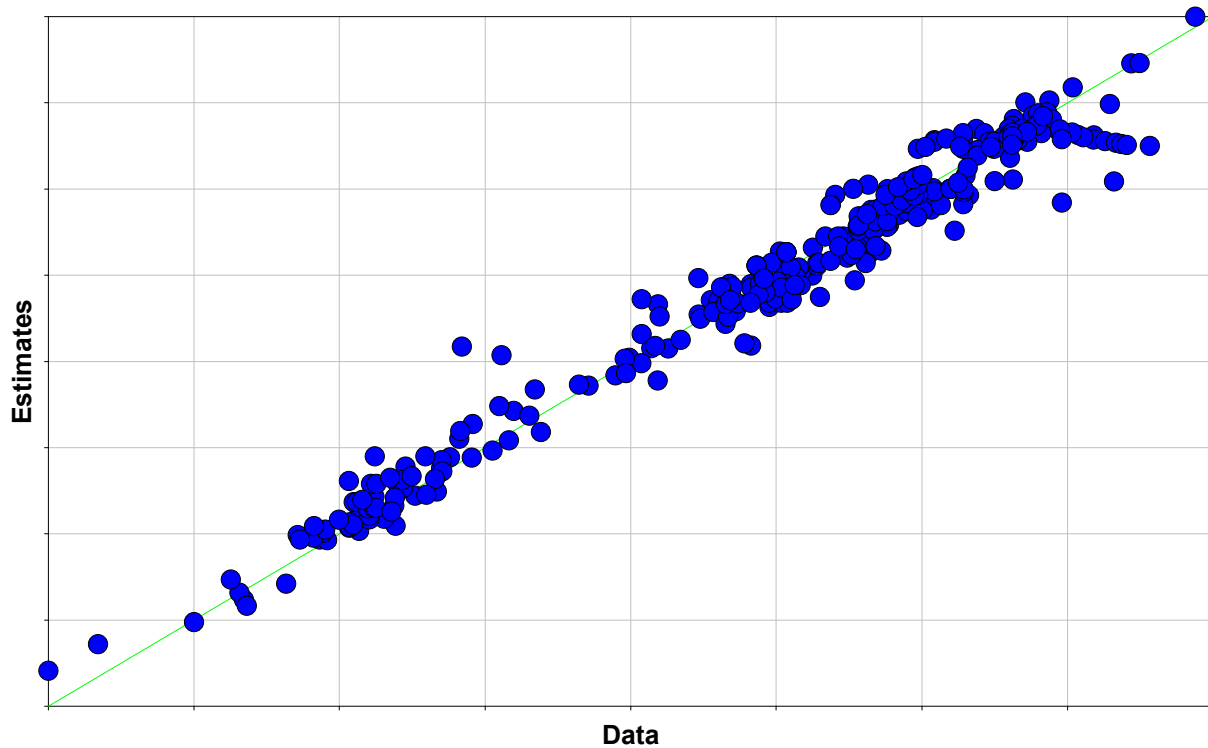
Vc: Joback Method [MKS]

Evaluated on Mar 20, 2024 at 16:33:02

Evaluation Statistics

Statistic	Value	Units
Number of Observations	332	---
Average Error	-0.000005	m3/kg
Average Absolute Error	0.000104	m3/kg
Average Absolute % Error	3.575025	%
Maximum Error	0.000716	m3/kg
Minimum Error	-0.000660	m3/kg
Maximum Absolute Error	0.000716	m3/kg
Minimum Absolute Error	0.000002	m3/kg

Estimates vs Data Graph



Maximum Errors - Sorted by Absolute Percent Error

1) Iodine

Datum:	0.000611	---
Estimate:	0.000833	m3/kg
Error:	0.000223	m3/kg

2) Carbon dioxide

Datum:	0.002136	---
Estimate:	0.002852	m3/kg
Error:	0.000716	m3/kg

3) Bromine

Datum:	0.000795	---
Estimate:	0.000998	m3/kg
Error:	0.000203	m3/kg

4) Oxygen

Datum:	0.002281	---
Estimate:	0.002797	m3/kg
Error:	0.000516	m3/kg

5) Dinitrogen tetroxide

Datum:	0.001815	---
Estimate:	0.002168	m3/kg
Error:	0.000353	m3/kg

6) Perfluoroethylene

Datum:	0.001720	---
Estimate:	0.002015	m3/kg
Error:	0.000295	m3/kg

7) Methylamine

Datum:	0.004540	---
Estimate:	0.003880	m3/kg
Error:	-0.000660	m3/kg

8) Trimethylamine

Datum:	0.004348	---
Estimate:	0.003747	m3/kg
Error:	-0.000601	m3/kg

9) Dimethoxymethane

Datum:	0.002799	---
Estimate:	0.003147	m3/kg
Error:	0.000348	m3/kg

10) n-Octadecane

Datum:	0.004672	---
Estimate:	0.004100	m3/kg
Error:	-0.000572	m3/kg

Minimum Errors - Sorted by Absolute Percent Error

1) 2,4-Dimethylhexane

Datum:	0.004132	---
Estimate:	0.004128	m3/kg
Error:	-0.000004	m3/kg

2) 2,2,3,3-Tetramethylbutane

Datum:	0.004036	---
Estimate:	0.004040	m3/kg
Error:	0.000004	m3/kg

3) 4-Heptanone

Datum:	0.003801	---
Estimate:	0.003796	m3/kg
Error:	-0.000004	m3/kg

4) 3-Heptanone

Datum:	0.003792	---
Estimate:	0.003796	m3/kg
Error:	0.000004	m3/kg

5) 2-Methylhexane

Datum:	0.004201	---
Estimate:	0.004206	m3/kg
Error:	0.000005	m3/kg

6) 2,2-Dimethylpentane

Datum:	0.004152	---
Estimate:	0.004157	m3/kg
Error:	0.000005	m3/kg

7) 1-Heptene

Datum:	0.004165	---
Estimate:	0.004160	m3/kg
Error:	-0.000005	m3/kg

8) Triethylamine

Datum:	0.003844	---
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Estimate:	0.003849	m3/kg
Error:	0.000005	m3/kg

9) 2-Hexanol

Datum:	0.003758	---
Estimate:	0.003763	m3/kg
Error:	0.000005	m3/kg

10) 3-Hexanone

Datum:	0.003774	---
Estimate:	0.003769	m3/kg
Error:	-0.000005	m3/kg

Estimated using the Joback Method [MKS] for the Critical Volume. Referenced in: Kevin G. Joback and Robert C. Reid. "Estimation of Pure-Component Properties from Group-Contributions." Chemical Engineering Communications. Volume 57, page 233-243, 1987.
