

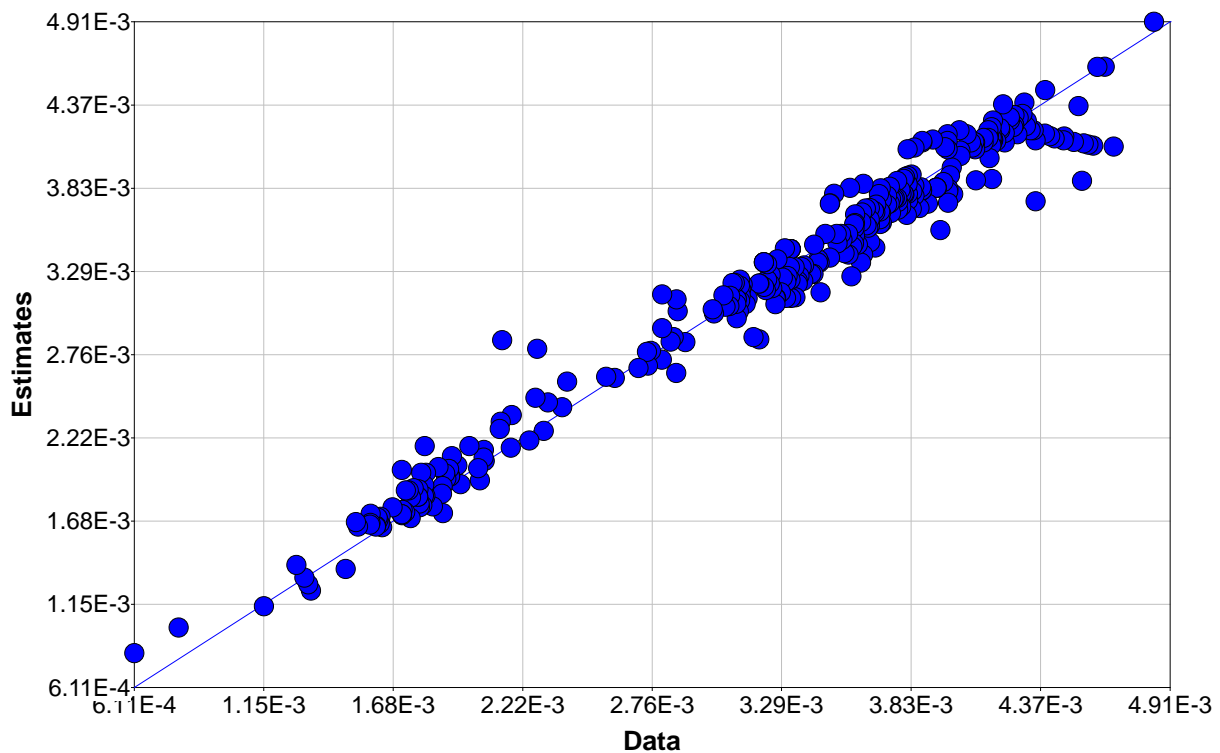
Vc: Joback Method

Evaluated on Aug 08, 2016 at 00:07:51

Evaluation Statistics

Statistic	Value	Units
Number of Observations	326	- - -
Average Error	-0.00001	m3/kg
Average Absolute Error	0.00011	m3/kg
Average Absolute % Error	3.59237	%
Maximum Error	0.00072	m3/kg
Minimum Error	-0.00066	m3/kg
Maximum Absolute Error	0.00072	m3/kg
Minimum Absolute Error	0.00000	m3/kg

Estimates vs Data Graph



Maximum Errors

1) Carbon dioxide

Datum: 0.00214 m3/kg

Estimate:	0.00285	m3/kg
Error:	0.00072	m3/kg

2) Oxygen

Datum:	0.00228	m3/kg
Estimate:	0.00280	m3/kg
Error:	0.00052	m3/kg

3) Dinitrogen tetroxide

Datum:	0.00182	m3/kg
Estimate:	0.00217	m3/kg
Error:	0.00035	m3/kg

4) Dimethoxymethane

Datum:	0.00280	m3/kg
Estimate:	0.00315	m3/kg
Error:	0.00035	m3/kg

5) Perfluoroethylene

Datum:	0.00172	m3/kg
Estimate:	0.00201	m3/kg
Error:	0.00029	m3/kg

6) Propanal

Datum:	0.00351	m3/kg
Estimate:	0.00380	m3/kg
Error:	0.00028	m3/kg

7) 2,2,3-Trimethylpentane

Datum:	0.00382	m3/kg
Estimate:	0.00408	m3/kg
Error:	0.00027	m3/kg

8) 3,3-Dimethylhexane

Datum:	0.00388	m3/kg
Estimate:	0.00414	m3/kg
Error:	0.00026	m3/kg

9) Butyraldehyde

Datum:	0.00358	m3/kg
Estimate:	0.00383	m3/kg
Error:	0.00026	m3/kg

10) Pyrazine

Datum:	0.00286	m3/kg
Estimate:	0.00312	m3/kg
Error:	0.00026	m3/kg

Minimum Errors

1) Methylamine

Datum:	0.00454	m3/kg
Estimate:	0.00388	m3/kg
Error:	-0.00066	m3/kg

2) Trimethylamine

Datum:	0.00435	m3/kg
Estimate:	0.00375	m3/kg
Error:	-0.00060	m3/kg

3) n-Octadecane

Datum:	0.00467	m3/kg
Estimate:	0.00410	m3/kg
Error:	-0.00057	m3/kg

4) n-Heptadecane

Datum:	0.00459	m3/kg
Estimate:	0.00411	m3/kg
Error:	-0.00048	m3/kg

5) n-Hexadecane

Datum:	0.00457	m3/kg
Estimate:	0.00411	m3/kg
Error:	-0.00045	m3/kg

6) n-Pentadecane

Datum:	0.00455	m3/kg
Estimate:	0.00412	m3/kg
Error:	-0.00043	m3/kg

7) 2-Ethylhexyl acetate

Datum:	0.00395	m3/kg
Estimate:	0.00356	m3/kg

Error:	-0.00039	m3/kg
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8) n-Tetradecane

Datum:	0.00451	m3/kg
Estimate:	0.00413	m3/kg
Error:	-0.00038	m3/kg

9) Furan

Datum:	0.00320	m3/kg
Estimate:	0.00286	m3/kg
Error:	-0.00035	m3/kg

10) n-Tridecane

Datum:	0.00446	m3/kg
Estimate:	0.00414	m3/kg
Error:	-0.00032	m3/kg

References

1) Estimated using Joback Method 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.
