

## Report Pages

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### Tc: Joback Method [MKS]

Evaluated on Mar 20, 2024 at 16:29:14

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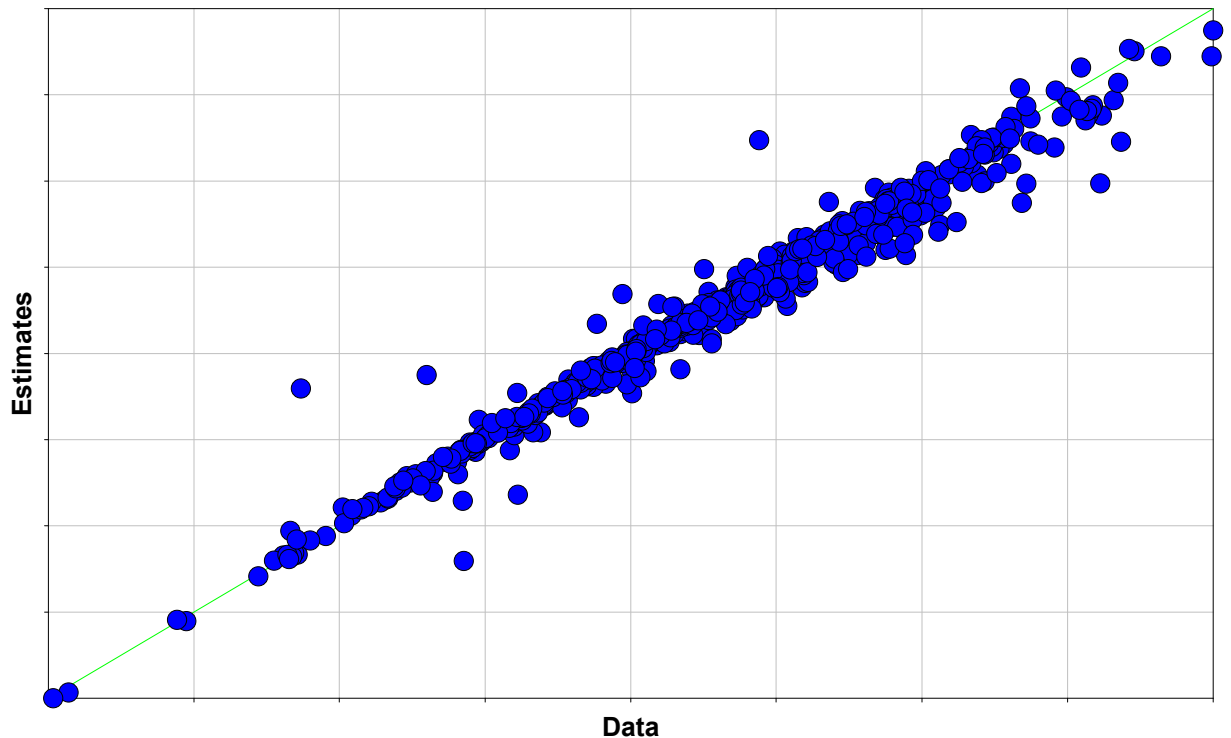
## Evaluation Statistics

Statistic	Value	Units
Number of Observations	678	---
Average Error	-5.848685	K
Average Absolute Error	11.823437	K
Average Absolute % Error	1.987476	%
Maximum Error	182.569977	K
Minimum Error	-123.660974	K
Maximum Absolute Error	182.569977	K
Minimum Absolute Error	1.136868E-13	K

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## Estimates vs Data Graph

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## Maximum Errors - Sorted by Absolute Percent Error

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1) Trifluoroacetonitrile

Datum:	311.110000	---
Estimate:	493.679977	K
Error:	182.569977	K

2) Perfluoropentane

Datum:	421.000000	---
Estimate:	297.339026	K
Error:	-123.660974	K

3) Trifluoroiodomethane

Datum:	396.000000	---
Estimate:	508.857731	K
Error:	112.857731	K

4) Maleic acid

Datum:	620.000000	---
Estimate:	776.414586	K
Error:	156.414586	K

5) Perfluorocyclohexane

Datum:	457.300000	---
Estimate:	372.945470	K
Error:	-84.354530	K

6) Glycerol

Datum:	850.000000	---
Estimate:	727.236099	K
Error:	-122.763901	K

7) 1,1,2-Trichloroethane

Datum:	528.000000	---
Estimate:	601.320100	K
Error:	73.320100	K

8) 1,1,1',1'-Tetrafluorodimethyl ether

Datum:	420.250000	---
Estimate:	365.709331	K
Error:	-54.540669	K

9) Triethylene glycol

Datum:	797.000000	---
Estimate:	704.851486	K
Error:	-92.148514	K

10) 2,2-Diethoxypropane

Datum:	510.700000	---
Estimate:	567.483971	K
Error:	56.783971	K

**Minimum Errors - Sorted by Absolute Percent Error**

1) Cyclobutane

Datum:	460.000000	---
Estimate:	460.000000	K
Error:	1.136868E-13	K

2) Ethanethiol

Datum:	499.000000	---
Estimate:	499.001438	K
Error:	0.001438	K

3) Cyclopentene

Datum:	506.500000	---
Estimate:	506.492707	K
Error:	-0.007293	K

4) 3,3-Dimethylhexane

Datum:	562.020000	---
Estimate:	562.009796	K
Error:	-0.010204	K

5) 3-Methylheptane

Datum:	563.670000	---
Estimate:	563.687250	K
Error:	0.017250	K

6) 1,4-Dioxane

Datum:	587.000000	---
Estimate:	586.978682	K
Error:	-0.021318	K

7) Ethyl methyl sulfide

Datum:	533.000000	---
Estimate:	532.979635	K
Error:	-0.020365	K

8) 2,5-Xylenol

Datum:	706.900000	---
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Estimate:	706.862863	K
Error:	-0.037137	K
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9) Propyl acetate		
Datum:	549.400000	---
Estimate:	549.429986	K
Error:	0.029986	K
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10) Ethyl vinyl ether		
Datum:	475.000000	---
Estimate:	474.971305	K
Error:	-0.028695	K
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Estimated using the Joback Method [MKS] for the Critical Temperature. 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.

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