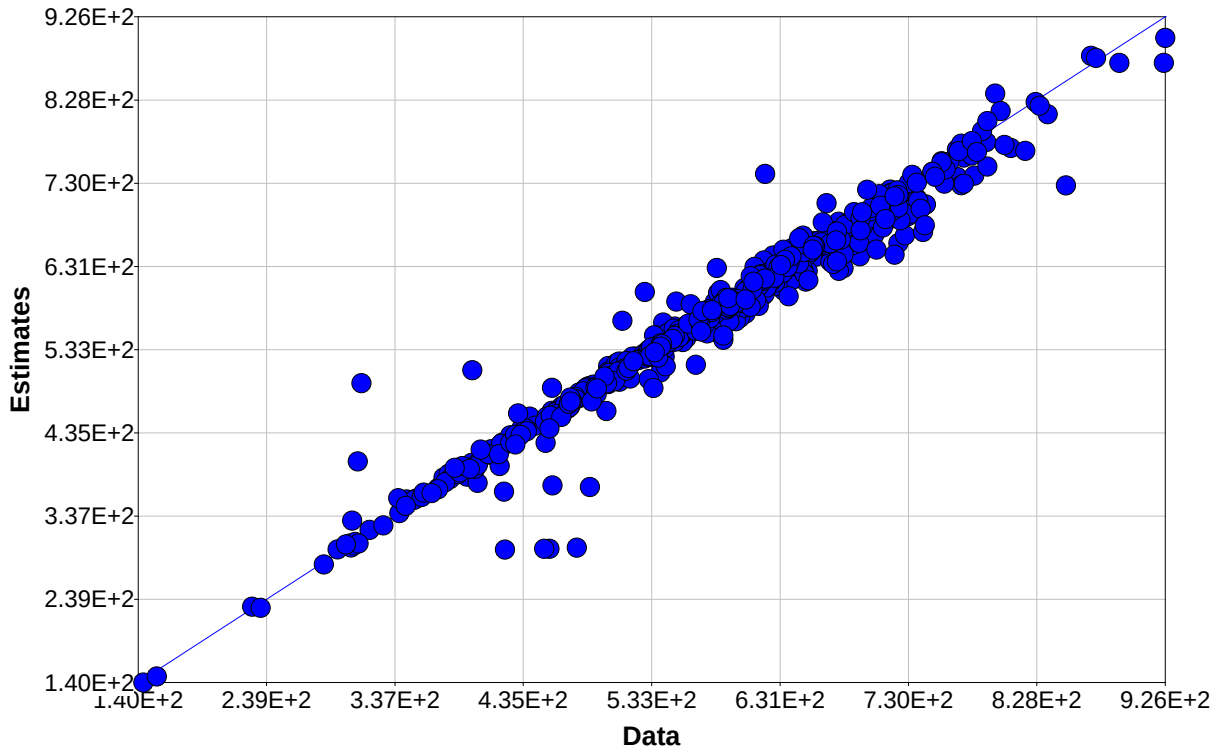
Tc: Joback Method

Evaluated on Aug 07, 2016 at 23:50:06

Evaluation Statistics

Statistic	Value	Units
Number of Observations	590	- - -
Average Error	-5.91183	K
Average Absolute Error	12.34992	K
Average Absolute % Error	2.20898	%
Maximum Error	182.56998	K
Minimum Error	-176.47690	K
Maximum Absolute Error	182.56998	K
Minimum Absolute Error	1.13687E-13	K

Estimates vs Data Graph



Maximum Errors

1) Trifluoroacetonitrile

Datum:	311.11000	K

Estimate:	493.67998	K
Error:	182.56998	K

2) Maleic acid

Datum:	620.00000	K
Estimate:	740.74074	K
Error:	120.74074	K

3) Trifluoroiodomethane

Datum:	396.00000	K
Estimate:	508.85773	K
Error:	112.85773	K

4) Acetylene

Datum:	308.33000	K
Estimate:	401.32716	K
Error:	92.99716	K

5) 1,1,2-Trichloroethane

Datum:	528.00000	K
Estimate:	601.32010	K
Error:	73.32010	K

6) 2,2-Diethoxypropane

Datum:	510.70000	K
Estimate:	567.48397	K
Error:	56.78397	K

7) 1,2-Dibromoethane

Datum:	583.00000	K
Estimate:	629.67423	K
Error:	46.67423	K

8) 2,6,10,15,19,23-Hexamethyltetracosane

Datum:	795.90000	K
Estimate:	835.48076	K
Error:	39.58076	K

9) 4-Aminotoluene

Datum:	667.00000	K
Estimate:	706.20146	K
Error:	39.20146	K

10) Isoxazole

Datum:	552.00000	K
Estimate:	590.00117	K
Error:	38.00117	K

Minimum Errors

1) Perfluoroheptane

Datum:	476.00000	K
Estimate:	299.52310	K
Error:	-176.47690	K

2) Perfluoro-2-methylpentane

Datum:	455.00000	K
Estimate:	298.14013	K
Error:	-156.85987	K

3) Perfluorohexane

Datum:	451.00000	K
Estimate:	298.14013	K
Error:	-152.85987	K

4) Perfluoropentane

Datum:	421.00000	K
Estimate:	297.33903	K
Error:	-123.66097	K

5) Glycerol

Datum:	850.00000	K
Estimate:	727.23610	K
Error:	-122.76390	K

6) Perfluoromethylcyclohexane

Datum:	485.90000	K
Estimate:	371.25731	K
Error:	-114.64269	K

7) Perfluorocyclohexane

Datum:	457.30000	K
Estimate:	372.94547	K

Error:	-84.35453	K

8) Ethylene glycol

Datum:	719.00000	K
Estimate:	645.42993	K
Error:	-73.57007	K

9) 1,6-Hexanediol

Datum:	740.80000	K
Estimate:	672.06205	K
Error:	-68.73795	K

10) 1,3-Propylene glycol

Datum:	722.00000	K
Estimate:	659.07892	K
Error:	-62.92108	K

References

1) Estimated using Joback Method 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.