Report Pages

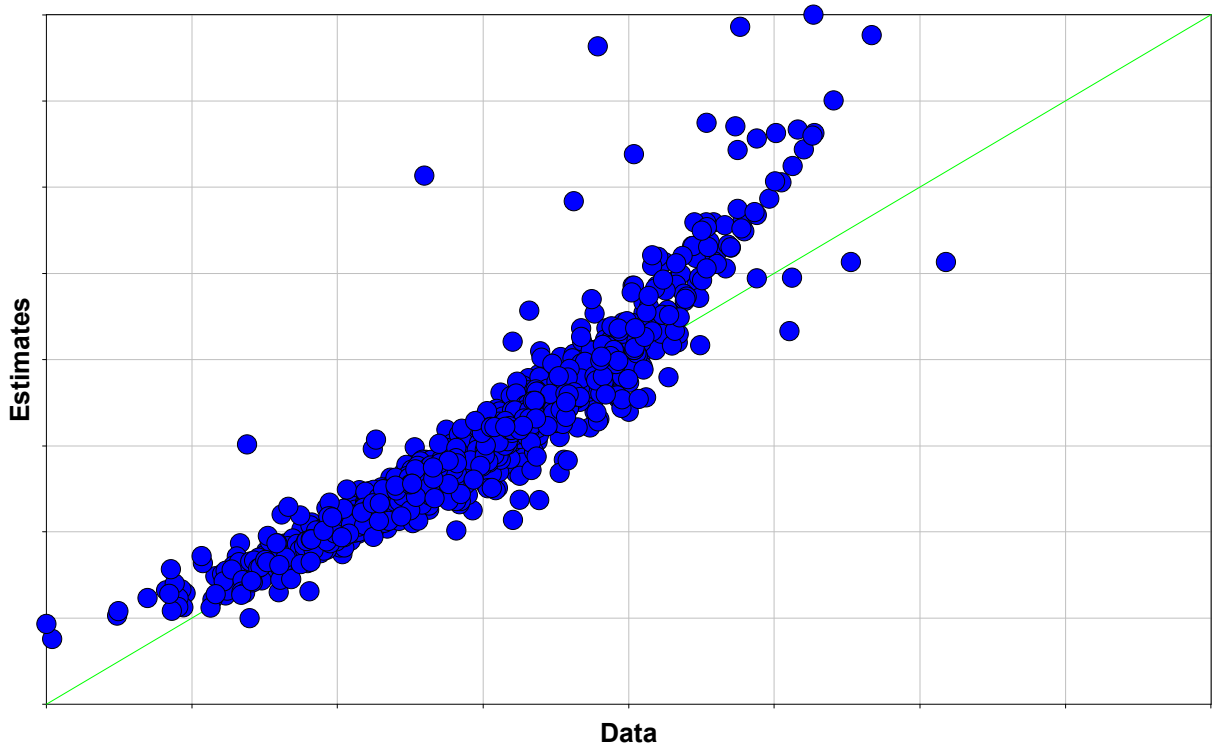
Tb: Joback Method [MKS]

Evaluated on Mar 20, 2024 at 16:26:46

Evaluation Statistics

Statistic	Value	Units
Number of Observations	1351	- - -
Average Error	9.436725	K
Average Absolute Error	24.071078	K
Average Absolute % Error	5.493284	%
Maximum Error	464.730000	K
Minimum Error	-128.550000	K
Maximum Absolute Error	464.730000	K
Minimum Absolute Error	0.000000	K

Estimates vs Data Graph



Maximum Errors - Sorted by Absolute Percent Error

1) Fluorine

Datum:	85.200000	- - -
Estimate:	198.060000	K
Error:	112.860000	K

2) Tetranitromethane

Datum:	398.850000	- - -
Estimate:	826.530000	K
Error:	427.680000	K

3) Oxygen

Datum:	90.200000	- - -
Estimate:	177.120000	K
Error:	86.920000	K

4) Pentaerythritol tetranitrate

Datum:	543.000000	- - -
Estimate:	1007.730000	K
Error:	464.730000	K

5) Cyanogen

Datum:	252.000000	- - -
Estimate:	449.440000	K
Error:	197.440000	K

6) Ethylenediaminetetraacetic acid

Datum:	661.150000	- - -
Estimate:	1035.240000	K
Error:	374.090000	K

7) Nitroglycerine

Datum:	523.000000	- - -
Estimate:	790.500000	K
Error:	267.500000	K

8) 2,4,6-Trinitrotoluene

Datum:	573.000000	- - -
Estimate:	856.820000	K
Error:	283.820000	K

9) Carbon tetrafluoride

Datum:	145.120000	- - -
Estimate:	216.250000	K
Error:	71.130000	K

10) Carbonyl fluoride

Datum:	188.580000	- - -
Estimate:	274.810000	K
Error:	86.230000	K

Minimum Errors - Sorted by Absolute Percent Error

1) 4-Bromotoluene

Datum:	457.500000	- - -
Estimate:	457.500000	K
Error:	0.000000	K

2) Butyric acid

Datum:	436.550000	- - -
Estimate:	436.550000	K
Error:	5.684342E-14	K

3) cis-3-Methyl-2-pentene

Datum:	340.850000	- - -
Estimate:	340.840000	K
Error:	-0.010000	K

4) Ethanethiol

Datum:	308.150000	- - -
Estimate:	308.140000	K
Error:	-0.010000	K

5) Ethylene oxide

Datum:	283.660000	- - -
Estimate:	283.640000	K
Error:	-0.020000	K

6) 3,5-Xylenol

Datum:	494.890000	- - -
Estimate:	494.840000	K
Error:	-0.050000	K

7) 1,2,4,5-Tetramethylbenzene

Datum:	469.990000	- - -
Estimate:	469.940000	K
Error:	-0.050000	K

8) Methyl iodide

Datum:	315.580000	- - -

Estimate:	315.540000	K
Error:	-0.040000	K

9) Cyclohexanone

Datum:	428.900000	- - -
Estimate:	428.840000	K
Error:	-0.060000	K

10) 2,3-Pentadiene

Datum:	321.400000	- - -
Estimate:	321.350000	K
Error:	-0.050000	K

Estimated using the Joback Method [MKS] for the Boiling Point. 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.