Cyclotetrasiloxane, 2,4,6,8-tetramethyl-

Other names:	1,3,5,7-Tetramethylcyclotetrasiloxane
	2,4,6,8-tetramethyl-1,3,5,7,2,4,6,8-tetroxatetrasilocane
	2,4,6,8-tetramethylcyclotetrasiloxane
	Tetramethylcyclotetrasiloxane
Inchi:	InChI=1S/C4H16O4Si4/c1-9-5-10(2)7-12(4)8-11(3)6-9/h9-12H,1-4H3
InchiKey:	BQYPERTZJDZBIR-UHFFFAOYSA-N
Formula:	C4H16O4Si4
SMILES:	C[SiH]1O[SiH](C)O[SiH](C)O[SiH](C)O1
Mol. weight [g/mol]:	240.51
CAS:	2370-88-9

Physical Properties

Property code	Value	Unit	Source
log10ws	8.61		Crippen Method
logp	-0.532		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhol	996.14	kg/m3	293.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhol	976.66	kg/m3	308.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures

rhol	970.26	kg/m3	313.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhol	963.83	kg/m3	318.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhol	957.37	kg/m3	323.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhol	950.86	kg/m3	328.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhol	992.39	kg/m3	298.15	Excess Molar Volumes of 2,4,6,8-Tetramethylcyclotetrasiloxane with Benzene, Toluene, and Xylene at T = (288.15, 298.15, and 308.15) K

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures:	https://www.doi.org/10.1016/j.jct.2014.09.010
Excess Molar Volumes of 2,4,6,8-Tetramethylcyclotetrasiloxane with Benzene, Toluene, and Xylene at T = (288.15, 298.15, and 308.15) K:	https://www.doi.org/10.1021/je2009736
NIST Webbook	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2370889&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rhol:	Liquid Density