# 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

InChl=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 1,3,5-trimethyl	The mixing properties of -1,3,5-tris(3,3,3-tr cyclotrisiloxane with various organosilicon compounds at different temperatures	ifluoropropyl)
rhol	976.66	kg/m3	308.15 1,3,5-trimethyl	The mixing properties of -1,3,5-tris(3,3,3-tr cyclotrisiloxane with various organosilicon compounds at different temperatures	ifluoropropyl)

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 https://www.doi.org/10.1016/j.jct.2014.09.010
1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)
Eystern shokan to https://www.doi.org/10.1021/je2009736
2,14,6,0 Intermethylevalotetasiinsana https://www.doi.org/10.1021/je2009736
2,14,6,0 Intermethylevalotetasiinsana https://webbook.nist.gov/cgi/cbook.cgi?ID=C2370889&Units=SI = (288.15, 298.15, and 308.15) K:

## Legend

log10ws: Log10 of Water solubility in mol/llogp: Octanol/Water partition coefficient

rhol: Liquid Density

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