1,3,5,7-Tetramethyl-1,3,5,7-tetravinylcyclotetrasilo

Other names: 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcycloterasiloxane

2,4,6,8-tetramethyl-2,4,6,8-tetravinylcycloterasiloxane

InChl=1S/C12H24O4Si4/c1-9-17(5)13-18(6,10-2)15-20(8,12-4)16-19(7,11-3)14-17/h9-12

InchiKey: VMAWODUEPLAHOE-UHFFFAOYSA-N

Formula: C12H24O4Si4

Mol. weight [g/mol]: 344.66

Physical Properties

Property code	Value	Unit	Source
log10ws	4.62		Crippen Method
logp	3.255		Crippen Method
rinpol	1512.00		NIST Webbook
rinpol	1512.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source	
rfi	1.43415			Volumetric and refractive properties of ,3,5,7-tetramethyl with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15)	cyclotetrasiloxa

rfi	1.43231	298.15 Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15)
rfi	1.42994	303.15 Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15)
rfi	1.42756	308.15 Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rfi	1.42521	313.15 Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K
rfi	1.42284	318.15 Volumetric and refractive properties of 1,3,5,7-tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane with methoxybenzene, chlorobenzene, tert-butylbenzene and nitrobenzene at T = (298.15-318.15) K

rhol	987.65	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	982.54	kg/m3	298.15 Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons
rhol	972.34	kg/m3	308.15 Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons
rhol	962.14	kg/m3	318.15 Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic
rhol	951.94	kg/m3	hydrocarbons 328.15 Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons

rhol	992.74	kg/m3	288.15 Effect of temperature and composition on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane
			with aromatic hydrocarbons
rhol	972.29	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	967.16	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	962.01	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	956.88	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	951.69	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	972.64	kg/m3	308.15 Volumetric and refractive properties of the mixtures of 1,1,3,3-tetramethyl-1,3-diphenyldisiloxane with various organosilicon compounds at T = (308.15 to 328.15) K
rhol	967.49	kg/m3	313.15 Volumetric and refractive properties of the mixtures of 1,1,3,3-tetramethyl-1,3-diphenyldisiloxane with various organosilicon compounds at T = (308.15 to 328.15) K
rhol	962.36	kg/m3	318.15 Volumetric and refractive properties of the mixtures of 1,1,3,3-tetramethyl-1,3-diphenyldisiloxane with various organosilicon compounds at T = (308.15 to 328.15) K
rhol	957.20	kg/m3	323.15 Volumetric and refractive properties of the mixtures of 1,1,3,3-tetramethyl-1,3-diphenyldisiloxane with various organosilicon compounds at T = (308.15 to 328.15) K
rhol	952.03	kg/m3	328.15 Volumetric and refractive properties of the mixtures of 1,1,3,3-tetramethyl-1,3-diphenyldisiloxane with various organosilicon compounds at T = (308.15 to 328.15) K

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006234&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Effect of temperature and composition https://www.doi.org/10.1016/j.jct.2012.08.010 on the density, refractive index, and excess quantities of binary mixtures of 2,4,6,8-tetramethyl-2,4,6,8-tetraethenylcyclotetrasiloxane with aromatic hydrocarbons:

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)

Legionestic and remarking perties of https://www.doi.org/10.1016/j.jct.2018.09.021 1,35.77-tetramethylayclotetrasiloxane

Legionestical perties of https://www.doi.org/10.1016/j.jct.2018.09.021 1,35.77-tetramethylayclotetrasiloxane

Legionestical perties of https://www.doi.org/10.1021/acs.jced.5b00820 1 1,223.6etpanethyl-1,3-diphenyldisiloxane

with various organosilicon compounds at T = (308.15 to 328.15) K:

Legend

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

rfi: Refractive Index rhol: Liquid Density

rinpol: Non-polar retention indices

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