1,3-Diphenyltetramethyldisiloxane

Other names: 1,1,3,3-tetramethyl-1,3-diphenyldisiloxane

1,3-Diphenyl-1,1,3,3-tetramethyldisiloxane

Bis(phenyldimethylsilyl)oxide Diphenyltetramethyldisiloxane

Disiloxane, 1,1,3,3-tetramethyl-1,3-diphenyl-Disiloxane, 1,3-diphenyl-1,1,3,3-tetramethyl-

Sym-tetramethyl-diphenyl-disiloxane Tetramethyl-1,3-diphenyldisiloxane

InChl=1S/C16H22OSi2/c1-18(2,15-11-7-5-8-12-15)17-19(3,4)16-13-9-6-10-14-16/h5-14F

InchiKey: YQJPWWLJDNCSCN-UHFFFAOYSA-N

Formula: C16H22OSi2

SMILES: C[Si](C)(O[Si](C)(C)c1ccccc1)c1ccccc1

Mol. weight [g/mol]: 286.52 CAS: 56-33-7

Physical Properties

Property code	Value	Unit	Source
log10ws	-7.87		Crippen Method
logp	3.228		Crippen Method
sl	559.70	J/mol×K	NIST Webbook
tf	251.00	K	NIST Webbook
tf	250.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	508.10	J/mol×K	298.15	NIST Webbook
cpl	508.10	J/mol×K	298.15	NIST Webbook

rhol	951.65	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
rhol	963.92	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	959.80	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	955.69	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	951.58	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
rhol	963.94	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	959.84	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	955.74	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	968.05	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	967.90	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	963.80	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	959.75	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	955.65	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	951.57	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
rhol	967.99	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	963.87	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	959.76	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	955.68	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

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	429.50 ± 1.50	K	1.70	NIST Webbook

Sources

Volumetric and refractive properties of https://www.doi.org/10.1021/acs.jced.5b00820

the mixtures of Nip3,3 verbanethyl-1,3-diphenyldisiloxanettp://webbook.nist.gov/cgi/cbook.cgi?ID=C56337&Units=SI

with various organosilicon compounds at http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

Legend

cpl: Liquid phase heat capacity

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

rhol: Liquid Density

sl: Liquid phase molar entropy at standard conditions

tbrp: Boiling point at reduced pressuretf: Normal melting (fusion) point

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