

Silane, triethoxy-

Other names:	(C ₂ H ₅ O) ₃ SiH CT2500 Triethoxysilane
Inchi:	InChI=1S/C6H16O3Si/c1-4-7-10(8-5-2)9-6-3/h10H,4-6H2,1-3H3
InchiKey:	QQQSFSZALRVCSZ-UHFFFAOYSA-N
Formula:	C ₆ H ₁₆ O ₃ Si
SMILES:	CCO[SiH](OCC)OCC
Mol. weight [g/mol]:	164.27
CAS:	998-30-1

Physical Properties

Property code	Value	Unit	Source
log10ws	1.41		Crippen Method
logp	0.813		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhoI	900.61	kg/m ³	288.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures

rho	889.82	kg/m ³	298.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
rho	878.86	kg/m ³	308.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
rho	867.78	kg/m ³	318.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
rho	856.60	kg/m ³	328.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

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

Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures:

<https://www.doi.org/10.1016/j.jct.2014.03.003>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C998301&Units=SI>

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/98-468-5/Silane-triethoxy.pdf>

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