

Silane, ethenyltriethoxy-

Other names:	(Triethoxysilyl)ethylene A 151 CV-4910 Dynasylan VTEO Ethenyltriethoxy-silane KBE 1003 NV 1107 Polyscience VTES Silane A 151 Triethoxyvinylsilicane Union carbide A-151 VTEO VTES VTS-E ethenyl(triethoxy)silane ethenyltriethoxy-silane silane, triethoxyvinyl- triethoxyvinylsilane vinyltriethoxysilane
Inchi:	InChI=1S/C8H18O3Si/c1-5-9-12(8-4,10-6-2)11-7-3/h8H,4-7H2,1-3H3
InchiKey:	FWDBOZPQNFOLF-UHFFFAOYSA-N
Formula:	C8H18O3Si
SMILES:	C=C[Si](OCC)(OCC)OCC
Mol. weight [g/mol]:	190.31
CAS:	78-08-0

Physical Properties

Property code	Value	Unit	Source
hvac	50.20 ± 0.80	kJ/mol	NIST Webbook
hvac	50.20 ± 0.40	kJ/mol	NIST Webbook
log10ws	0.41		Crippen Method
logp	1.760		Crippen Method
tb	433.50 ± 0.50	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	46.20	kJ/mol	377.50	NIST Webbook
rhoI	914.92	kg/m ³	288.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
rhoI	904.77	kg/m ³	298.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
rhoI	894.48	kg/m ³	308.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
rhoI	884.08	kg/m ³	318.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures

rho_l	873.61	kg/m ³	328.15	Thermophysical properties of binary mixtures of triethoxysilane, methyltriethoxysilane, vinyltriethoxysilane and 3-mercaptopropyltriethoxysilane with ethylbenzene at various temperatures
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Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C78080&Units=SI>

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

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>

Legend

h_{vap}:	Enthalpy of vaporization at standard conditions
h_{vapt}:	Enthalpy of vaporization at a given temperature
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
rho_l:	Liquid Density
tb:	Normal Boiling Point Temperature

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