

Silane, triethoxyethyl-

Other names:	Silane, ethyltriethoxy- Union carbide A-15 a 15 (Silane) ethaneorthosiliconic acid, triethyl ester ethyltriethoxysilane triethoxyethylsilane
Inchi:	InChI=1S/C8H20O3Si/c1-5-9-12(8-4,10-6-2)11-7-3/h5-8H2,1-4H3
InchiKey:	DENFJSAFJTVPJR-UHFFFAOYSA-N
Formula:	C8H20O3Si
SMILES:	CCO[Si](CC)(OCC)OCC
Mol. weight [g/mol]:	192.33
CAS:	78-07-9

Physical Properties

Property code	Value	Unit	Source
log10ws	0.35		Crippen Method
logp	2.055		Crippen Method
rinpol	859.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	47.00	kJ/mol	382.00	NIST Webbook
pvap	0.05	kPa	407.60	Vapor Pressure of Ethyltriethoxysilane
pvap	4.32e-03	kPa	346.20	Vapor Pressure of Ethyltriethoxysilane
pvap	5.32e-03	kPa	350.40	Vapor Pressure of Ethyltriethoxysilane
pvap	8.33e-03	kPa	359.90	Vapor Pressure of Ethyltriethoxysilane

pvap	0.01	kPa	367.10	Vapor Pressure of Ethyltriethoxysilane
pvap	0.01	kPa	372.90	Vapor Pressure of Ethyltriethoxysilane
pvap	0.02	kPa	377.70	Vapor Pressure of Ethyltriethoxysilane
pvap	0.02	kPa	382.00	Vapor Pressure of Ethyltriethoxysilane
pvap	0.02	kPa	385.80	Vapor Pressure of Ethyltriethoxysilane
pvap	0.03	kPa	389.00	Vapor Pressure of Ethyltriethoxysilane
pvap	0.03	kPa	392.00	Vapor Pressure of Ethyltriethoxysilane
pvap	0.03	kPa	394.80	Vapor Pressure of Ethyltriethoxysilane
pvap	0.04	kPa	397.40	Vapor Pressure of Ethyltriethoxysilane
pvap	0.04	kPa	399.90	Vapor Pressure of Ethyltriethoxysilane
pvap	0.04	kPa	402.20	Vapor Pressure of Ethyltriethoxysilane
pvap	0.04	kPa	404.10	Vapor Pressure of Ethyltriethoxysilane
pvap	0.05	kPa	405.50	Vapor Pressure of Ethyltriethoxysilane
pvap	3.32e-03	kPa	340.80	Vapor Pressure of Ethyltriethoxysilane
pvap	0.05	kPa	410.10	Vapor Pressure of Ethyltriethoxysilane
pvap	0.06	kPa	411.90	Vapor Pressure of Ethyltriethoxysilane
pvap	0.06	kPa	413.70	Vapor Pressure of Ethyltriethoxysilane
pvap	0.06	kPa	415.40	Vapor Pressure of Ethyltriethoxysilane
pvap	0.07	kPa	416.80	Vapor Pressure of Ethyltriethoxysilane

pvap	0.07	kPa	418.30	Vapor Pressure of Ethyltriethoxysilane
pvap	0.07	kPa	419.40	Vapor Pressure of Ethyltriethoxysilane
pvap	0.07	kPa	420.60	Vapor Pressure of Ethyltriethoxysilane
pvap	0.08	kPa	421.80	Vapor Pressure of Ethyltriethoxysilane
pvap	0.08	kPa	423.70	Vapor Pressure of Ethyltriethoxysilane
pvap	0.08	kPa	425.40	Vapor Pressure of Ethyltriethoxysilane
pvap	0.09	kPa	426.70	Vapor Pressure of Ethyltriethoxysilane
pvap	0.09	kPa	427.90	Vapor Pressure of Ethyltriethoxysilane
pvap	0.09	kPa	429.10	Vapor Pressure of Ethyltriethoxysilane
pvap	0.10	kPa	430.20	Vapor Pressure of Ethyltriethoxysilane
pvap	0.10	kPa	431.30	Vapor Pressure of Ethyltriethoxysilane
pvap	0.10	kPa	432.00	Vapor Pressure of Ethyltriethoxysilane
pvap	2.32e-03	kPa	335.00	Vapor Pressure of Ethyltriethoxysilane

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Vapor Pressure of Ethyltriethoxysilane: <https://www.doi.org/10.1021/je100605v>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C78079&Units=SI>

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure
rinpol:	Non-polar retention indices

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