

Silane, ethyltrimethoxy-

Other names:	Ethyltrimethoxysilane Trimethoxyethylsilane
Inchi:	InChI=1S/C5H14O3Si/c1-5-9(6-2,7-3)8-4/h5H2,1-4H3
InchiKey:	SBRXLTRZCJVAPH-UHFFFAOYSA-N
Formula:	C5H14O3Si
SMILES:	CC[Si](OC)(OC)OC
Mol. weight [g/mol]:	150.25
CAS:	5314-55-6

Physical Properties

Property code	Value	Unit	Source
log10ws	1.61		Crippen Method
logp	0.884		Crippen Method
rinpol	723.00		NIST Webbook
rinpol	723.00		NIST Webbook
tb	397.15	K	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
pvap	2.33	kPa	306.35	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	3.33	kPa	311.45	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	4.33	kPa	315.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane

pvap	5.33	kPa	319.80	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	6.33	kPa	324.15	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	8.32	kPa	328.65	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	10.32	kPa	334.15	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	13.32	kPa	338.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	16.32	kPa	343.65	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	19.32	kPa	347.65	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	22.32	kPa	351.35	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	25.32	kPa	354.55	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	28.32	kPa	357.45	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	31.32	kPa	360.15	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	34.33	kPa	362.65	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane

pvap	37.33	kPa	364.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	40.33	kPa	367.55	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	43.33	kPa	369.65	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	46.33	kPa	371.05	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	49.33	kPa	374.05	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	52.33	kPa	375.85	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	55.33	kPa	376.45	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	58.33	kPa	379.85	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	61.33	kPa	381.15	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	64.33	kPa	382.55	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	67.33	kPa	383.15	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	70.33	kPa	384.85	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane

pvap	73.33	kPa	385.85	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	76.33	kPa	386.65	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	79.33	kPa	387.55	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	82.33	kPa	388.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	85.33	kPa	389.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	88.33	kPa	390.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	91.33	kPa	392.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	94.33	kPa	393.05	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	97.33	kPa	393.75	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	100.33	kPa	393.95	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane
pvap	101.33	kPa	397.15	Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Measurement and Correlation of the Vapor Pressure of Ethyltrimethoxysilane:	https://www.doi.org/10.1021/je100017w
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5314556&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

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