

Triethylsilanol

Other names:	Silanol, triethyl- (C2H5)3SiOH
Inchi:	InChI=1S/C6H16OSi/c1-4-8(7,5-2)6-3/h7H,4-6H2,1-3H3
InchiKey:	WVMSIBFANXCZKT-UHFFFAOYSA-N
Formula:	C6H16OSi
SMILES:	CC[Si](O)(CC)CC
Mol. weight [g/mol]:	132.28
CAS:	597-52-4

Physical Properties

Property code	Value	Unit	Source
affp	822.10	kJ/mol	NIST Webbook
basg	794.80	kJ/mol	NIST Webbook
log10ws	0.35		Crippen Method
logp	1.984		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	50.60	kJ/mol	355.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	348.00	K	3.20	NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C597524&Units=SI>

Legend

affp: Proton affinity
basg: Gas basicity
hvapt: Enthalpy of vaporization at a given temperature
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
tbrp: Boiling point at reduced pressure

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<https://www.chemeo.com/cid/50-570-3/Triethylsilanol.pdf>

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