Silanol, trimethyl-

Other names:	Hydroxytrimethylsilane
	Trimethylhydroxysilane
	Trimethylsilanol
Inchi:	InChI=1S/C3H10OSi/c1-5(2,3)4/h4H,1-3H3
InchiKey:	AAPLIUHOKVUFCC-UHFFFAOYSA-N
Formula:	C3H10OSi
SMILES:	C[Si](C)(C)O
Mol. weight [g/mol]:	90.20
CAS:	1066-40-6

Physical Properties

Property code	Value	Unit	Source
affp	814.00	kJ/mol	NIST Webbook
basg	781.50	kJ/mol	NIST Webbook
log10ws	1.61		Crippen Method
logp	0.814		Crippen Method
rinpol	584.00		NIST Webbook
rinpol	567.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	46.80	kJ/mol	324.00	NIST Webbook
hvapt	44.20	kJ/mol	324.50	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=C1066406&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
rinpol:	Non-polar retention indices

Latest version available from:

https://www.chemeo.com/cid/38-350-1/Silanol-trimethyl.pdf

Generated by Cheméo on 2024-05-08 23:26:43.306572542 +0000 UTC m=+17500052.227149857.

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.