

Silicic acid, tetrakis(1-methylethyl) ester

Other names:	NSC 252164 Silane, tetraisopropoxy- Tetraisopropyl o-silicate Tetrakis(i-propoxy)silane Tetrakis(isopropoxy)silane isopropyl silicate ((C3H7O)4Si) silicic acid (H4SiO4), tetraisopropyl ester silicic acid (H4sio4), tetrakis(1-methylethyl) ester silicon tetraisopropoxide tetra(isopropoxy)silane tetraisopropoxysilane tetraisopropyl orthosilicate tetraisopropyl silicate tetrakis(1-methylethyl) orthosilicate tetrakis(isopropyloxy)silane
Inchi:	InChI=1S/C12H28O4Si/c1-9(2)13-17(14-10(3)4,15-11(5)6)16-12(7)8/h9-12H,1-8H3
InchiKey:	ZUEKXCXHTXJYAR-UHFFFAOYSA-N
Formula:	C12H28O4Si
SMILES:	CC(C)O[Si](OC(C)C)(OC(C)C)OC(C)C
Mol. weight [g/mol]:	264.43
CAS:	1992-48-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.44		Crippen Method
logp	3.122		Crippen Method
pc	1310.00	kPa	Critical properties of some tetraalkoxysilanes and tetraalkoxytitaniums with branched alkyl radicals
rinpol	915.00		NIST Webbook
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Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	52.70	kJ/mol	382.50	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1992489&Units=SI>

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

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Critical properties of some tetraalkoxysilanes and tetraalkoxytitaniums with branched alkyl radicals: <https://www.doi.org/10.1016/j.fluid.2012.06.017>

Legend

hvapt: Enthalpy of vaporization at a given temperature

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

pc: Critical Pressure

rinpola: Non-polar retention indices

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