

Tetrakil(trimethylsilyl)silane

Other names:	Si(Si(CH ₃) ₃) ₄ Tetrakis(trimethylsilyl)silane Tetra(trimethylsilyl)-silane
Inchi:	InChI=1S/C12H36Si5/c1-13(2,3)17(14(4,5)6,15(7,8)9)16(10,11)12/h1-12H3
InchiKey:	BOJSDHZZKKYWAS-UHFFFAOYSA-N
Formula:	C ₁₂ H ₃₆ Si ₅
SMILES:	C[Si](C)(C)[Si]([Si](C)(C)C)([Si](C)(C)C)[Si](C)(C)C
Mol. weight [g/mol]:	320.84
CAS:	4098-98-0

Physical Properties

Property code	Value	Unit	Source
hsub	84.00 ± 21.00	kJ/mol	NIST Webbook
ie	7.41 ± 0.01	eV	NIST Webbook
ie	8.24	eV	NIST Webbook
log10ws	7.11		Crippen Method
logp	5.102		Crippen Method

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=C4098980&Units=SI

Legend

hsub:	Enthalpy of sublimation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

Latest version available from:

<https://www.cheméo.com/cid/85-747-9/Tetrakil-trimethylsilyl-silane.pdf>

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