

Silane, chloro(1,1-dimethylethyl)dimethyl-

Other names:	Silane, chloro-tert-butyl-dimethyl- tert-Butylchlorodimethylsilane tert-Butyldimethylchlorosilane tert-Butyldimethylsilyl chloride Dimethyl-tert-butylchlorosilane t-Butyldimethylchlorosilane t-Butyldimethylsilylchloride Silane, t-butylchlorodimethyl- CB2790 2-(Chlorodimethylsilyl)-2-methylpropane Chloro(1,1-dimethylethyl)dimethylsilane Chloro-tert-butyl-dimethylsilane TBDMS chloride
Inchi:	InChI=1S/C6H15ClSi/c1-6(2,3)8(4,5)7/h1-5H3
InchiKey:	BCNZYOJHNLNEZ-UHFFFAOYSA-N
Formula:	C6H15ClSi
SMILES:	CC(C)(C)[Si](C)(C)Cl
Mol. weight [g/mol]:	150.72
CAS:	18162-48-6

Physical Properties

Property code	Value	Unit	Source
ie	9.77	eV	NIST Webbook
log10ws	-0.54		Crippen Method
logp	3.230		Crippen Method
tb	398.00 ± 1.00	K	NIST Webbook
tb	398.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	5.60	kJ/mol	358.10	NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C18162486&Units=SI>

Legend

hfust: Enthalpy of fusion at a given temperature
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
tb: Normal Boiling Point Temperature

Latest version available from:

<https://www.chemeo.com/cid/91-901-0/Silane-chloro-1-1-dimethylethyl-dimethyl.pdf>

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