

tert-Butyltrichlorosilane

Other names:	t-Butyltrichlorosilane Silane, trichloro(1,1-dimethylethyl)- Silane, tert-butyltrichloro- tert-Butylsilicon trichloride
Inchi:	InChI=1S/C4H9Cl3Si/c1-4(2,3)8(5,6)7/h1-3H3
InchiKey:	MOOUPSHQAMJMSL-UHFFFAOYSA-N
Formula:	C4H9Cl3Si
SMILES:	CC(C)(C)[Si](Cl)(Cl)Cl
Mol. weight [g/mol]:	191.56
CAS:	18171-74-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.17		Crippen Method
logp	3.442		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	6.69	kJ/mol	373.40	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18171749&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

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