TRICHLOROOCTYLSILANE

Other names:	Trichloro(octyl)silane
	n-Octyltrichlorosilane
	Silane, trichlorooctyl-
	Silane, octyltrichloro-
	UN 1801
	CO9830
Inchi:	InChI=1S/C8H17Cl3Si/c1-2-3-4-5-6-7-8-12(9,10)11/h2-8H2,1H3
InchiKey:	RCHUVCPBWWSUMC-UHFFFAOYSA-N
Formula:	C8H17Cl3Si
SMILES:	CCCCCCCC[Si](Cl)(Cl)Cl
Mol. weight [g/mol]:	247.67

Physical Properties

Property code	Value	Unit	Source
af	0.4727		Cheméo Relay (1.0)
gf	20.58	kJ/mol	Cheméo Relay (1.0, beta)
hf	-382.71	kJ/mol	Cheméo Relay (1.0)
hvap	54.16	kJ/mol	Cheméo Relay (1.0)
ie	10.42	eV	Cheméo Relay (1.0)
log10ws	-5.79		Cheméo Relay (1.0)
logp	5.002		Crippen Method
pc	1773.83	kPa	Cheméo Relay (1.0, beta)
tb	498.00	K	NIST Webbook
tb	498.00 ± 1.00	K	NIST Webbook
tc	668.87	K	Cheméo Relay (1.0)
tf	210.82	K	Cheméo Relay (1.0)
vc	0.681	m3/kmol	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5283669&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume