DIMETHYL-DIOCTYL-SILANE

Other names: Silane, dimethyl dioctyl
Inchi: InChI=1S/C18H40Si/c1-5-7-9-11-13-15-17-19(3,4)18-16-14-12-10-8-6-2/h5-18H2,1-4H3
InchiKey: NEJKCNUETUMUBI-UHFFFAOYSA-N
Formula: C18H40Si
SMILES: CCCCCCCC[Si](C)(C)CCCCCCCC
Mol. weight [g/mol]: 284.60

Physical Properties

Property code	Value	Unit	Source
af	0.7384		Cheméo Relay (1.0)
gf	104.31	kJ/mol	Cheméo Relay (1.0, beta)
hf	-520.94	kJ/mol	Cheméo Relay (1.0)
hvap	70.92	kJ/mol	Cheméo Relay (1.0)
ie	9.29	eV	Cheméo Relay (1.0)
log10ws	-7.90		Cheméo Relay (1.0)
logp	7.416		Crippen Method
pc	1031.90	kPa	Cheméo Relay (1.0, beta)
tb	571.79	K	Cheméo Relay (1.0)
tc	726.57	K	Cheméo Relay (1.0)
tf	260.37	K	Cheméo Relay (1.0)
vc	1.120	m3/kmol	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3429752&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