Diethoxydiphenylsilane

Other names: CD6000
Diethoxydiphenylsilane
Diphenyldiethoxysilane
Inchi: InChI=1S/C16H20O2Si/c1-3-17-19(18-4-2,15-11-7-5-8-12-15)16-13-9-6-10-14-16/h5-14H
InchiKey: ZZNQQQWFKKTOSD-UHFFFAOYSA-N
Formula: C16H20O2Si
SMILES: CCO[Si](OCC)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 272.42

Physical Properties

Property code	Value	Unit	Source
af	0.5645		Cheméo Relay (1.0)
hf	-244.16	kJ/mol	Cheméo Relay (1.0)
hvap	67.56	kJ/mol	Cheméo Relay (1.0)
ie	8.78	eV	Cheméo Relay (1.0)
log10ws	-3.74		Cheméo Relay (1.0)
logp	2.316		Crippen Method
pc	1888.18	kPa	Cheméo Relay (1.0, beta)
tb	555.73	K	Cheméo Relay (1.0)
tc	808.62	K	Cheméo Relay (1.0)
tf	294.91	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	71.50	kJ/mol	477.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	440.00	K	2.00	NIST Webbook

Sources

Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2553197&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	

Legend

af:	Acentric Factor
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point