

Octaethylcyclotetrasiloxane

Inchi: InChI=1S/C16H40O4Si4/c1-9-21(10-2)17-22(11-3,12-4)19-24(15-7,16-8)20-23(13-5,14-6)
InchiKey: XOCOMEQNVMCRRMP-UHFFFAOYSA-N
Formula: C16H40O4Si4
SMILES: CC[Si]1(CC)O[Si](CC)(CC)O[Si](CC)(CC)O[Si](CC)(CC)O1
Mol. weight [g/mol]: 408.83
CAS: 1451-99-6

Physical Properties

Property code	Value	Unit	Source
log10ws	2.70		Crippen Method
logp	5.994		Crippen Method
sl	909.30	J/mol×K	NIST Webbook
tt	213.35 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	746.80	J/mol×K	298.15	NIST Webbook
hfust	13.71	kJ/mol	213.40	NIST Webbook
hvapt	69.20	kJ/mol	497.00	NIST Webbook

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1451996&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

cpl:	Liquid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
sl:	Liquid phase molar entropy at standard conditions
tt:	Triple Point Temperature

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