1,1,3,3-Tetraphenyl-1,3-dimethyldisiloxane

Other names:	1,3-dimethyl-1,1,3,3-tetraphenyldisiloxane
	Disiloxane, 1,3-dimethyl-1,1,3,3-tetraphenyl-
Inchi:	InChI=1S/C26H26OSi2/c1-28(23-15-7-3-8-16-23,24-17-9-4-10-18-24)27-29(2,25-19-11-5
InchiKey:	RFGGTTPASBFBTB-UHFFFAOYSA-N
Formula:	C26H26OSi2
SMILES:	C[Si](O[Si](C)(c1ccccc1)c1ccccc1)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	410.65
CAS:	807-28-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-18.22		Crippen Method
logp	3.782		Crippen Method
ss	570.20	J/mol×K	NIST Webbook
tf	322.85	K	Solubilities of 1,3-dimethyl-1,1,3,3-tetraphenyldisiloxan in different solvents from (288.15 to 313.15) K

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	503.20	J/mol×K	298.15	NIST Webbook
hfust	26.58	kJ/mol	321.95	NIST Webbook
hfust	26.58	kJ/mol	322.00	NIST Webbook
hvapt	93.30	kJ/mol	567.00	NIST Webbook
hvapt	64.40	kJ/mol	601.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C807283&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Solubilities of 1,3-dimethyl-1,1,3,3-tetraphenyldisiloxane in different solvents from (288.15 to 313.15) K: https://www.doi.org/10.1016/j.tca.2012.04.033

Legend

cps:	Solid 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
ss:	Solid phase molar entropy at standard conditions
tf:	Normal melting (fusion) point