Tetraphenoxysilane

Inchi: InChI=1S/C24H20O4Si/c1-5-13-21(14-6-1)25-29(26-22-15-7-2-8-16-22,27-23-17-9-3-10-
InchiKey: ADLSSRLDGACTEX-UHFFFAOYSA-N
Formula: C24H20O4Si
SMILES: c1ccc(O[Si](Oc2ccccc2)(Oc2ccccc2)Oc2ccccc2)cc1
Mol. weight [g/mol]: 400.51
CAS: 1174-72-7

Physical Properties

Property code	Value	Unit	Source
af	0.8176		Cheméo Relay (1.0)
hf	-293.21	kJ/mol	Cheméo Relay (1.0)
hvap	87.50	kJ/mol	Cheméo Relay (1.0)
ie	9.03	eV	Cheméo Relay (1.0)
log10ws	-7.02		Cheméo Relay (1.0)
logp	5.738		Crippen Method
pc	1386.99	kPa	Cheméo Relay (1.0, beta)
tb	687.80	K	Cheméo Relay (1.0)
tc	1035.45	K	Cheméo Relay (1.0)
tf	322.15	K	Jean-Claude Bradley Open Melting Point Dataset (2014, CC0)

Sources

Jean-Claude Bradley Open Melting Point Dataset (2014, CC0): https://figshare.com/articles/Jean_Claude_Bradley_Open_Melting_Point_Datset/1031637
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):
Cheméo Relay (1.0, beta):

Legend

af:	Acentric Factor
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

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