Silane, methyl, triheptyloxy

Inchi: InChI=1S/C22H48O3Si/c1-5-8-11-14-17-20-23-26(4,24-21-18-15-12-9-6-2)25-22-19-16-1
InchiKey: ANIZCGCAILJFJL-UHFFFAOYSA-N
Formula: C22H48O3Si
SMILES: CCCCCCCO[Si](C)(OCCCCCCC)OCCCCCCC
Mol. weight [g/mol]: 388.71

Physical Properties

Property code	Value	Unit	Source
af	1.0034		Cheméo Relay (1.0)
gf	-186.37	kJ/mol	Cheméo Relay (1.0, beta)
hf	-1070.87	kJ/mol	Cheméo Relay (1.0)
hvap	78.62	kJ/mol	Cheméo Relay (1.0)
ie	10.12	eV	Cheméo Relay (1.0)
log10ws	-7.34		Cheméo Relay (1.0)
logp	7.516		Crippen Method
pc	807.41	kPa	Cheméo Relay (1.0, beta)
rinpol	2085.00		NIST Webbook
rinpol	2085.00		NIST Webbook
rinpol	2085.00		NIST Webbook
tb	600.07	K	Cheméo Relay (1.0)
tc	755.86	K	Cheméo Relay (1.0)
tf	229.49	K	Cheméo Relay (1.0)
vc	1.427	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=R160826&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume