ETHYLTRIBUTOXYSILANE

Other names: Tributoxy(ethyl)silane
Tributyloxyethylsilane
Inchi: InChI=1S/C14H32O3Si/c1-5-9-12-15-18(8-4,16-13-10-6-2)17-14-11-7-3/h5-14H2,1-4H3
InchiKey: GIHPVQDFBJMUAO-UHFFFAOYSA-N
Formula: C14H32O3Si
SMILES: CCCCO[Si](CC)(OCCCC)OCCCC
Mol. weight [g/mol]: 276.49

Physical Properties

Property code	Value	Unit	Source
af	0.7206		Cheméo Relay (1.0)
gf	-262.86	kJ/mol	Cheméo Relay (1.0, beta)
hf	-881.31	kJ/mol	Cheméo Relay (1.0)
hvap	54.73	kJ/mol	Cheméo Relay (1.0)
ie	9.74	eV	Cheméo Relay (1.0)
log10ws	-4.05		Cheméo Relay (1.0)
logp	4.395		Crippen Method
pc	1593.06	kPa	Cheméo Relay (1.0, beta)
rinpol	1353.00		NIST Webbook
rinpol	1353.00		NIST Webbook
tb	512.39	K	Cheméo Relay (1.0)
tc	675.96	K	Cheméo Relay (1.0)
tf	161.49	K	Cheméo Relay (1.0)
vc	0.948	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=C17957389&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