

Triethylene glycol, thio, S-octyl

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C14H30O3S/c1-2-3-4-5-6-7-13-18-14-12-17-11-10-16-9-8-15/h15H,2-14H2,1H

PQTOSHDDJMDWTF-UHFFFAOYSA-N

C14H30O3S

CCCCCCCCSCCOCCOCCO

278.45

Physical Properties

Property code	Value	Unit	Source
gf	-246.70	kJ/mol	Joback Method
hf	-707.09	kJ/mol	Joback Method
hfus	42.61	kJ/mol	Joback Method
hvap	75.07	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	3.106		Crippen Method
mcvol	242.080	ml/mol	McGowan Method
pc	1616.77	kPa	Joback Method
rinpol	2123.00		NIST Webbook
rinpol	2123.00		NIST Webbook
tb	725.52	K	Joback Method
tc	899.95	K	Joback Method
tf	387.22	K	Joback Method
vc	0.928	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.00	J/mol×K	725.52	Joback Method
cpg	722.50	J/mol×K	754.59	Joback Method
cpg	737.24	J/mol×K	783.66	Joback Method
cpg	751.24	J/mol×K	812.74	Joback Method
cpg	764.50	J/mol×K	841.81	Joback Method
cpg	777.02	J/mol×K	870.88	Joback Method
cpg	788.81	J/mol×K	899.95	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R120086&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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