Tripropylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C14H26O5/c1-6-7-16-8-11(2)17-9-12(3)18-10-13(4)19-14(5)15/h6,11-13H,1,7-
InchiKey: AAVVZXYBUPOMCC-UHFFFAOYSA-N
Formula: C14H26O5
SMILES: C=CCOCC(C)OCC(C)OCC(C)OC(C)=O
Mol. weight [g/mol]: 274.35

Physical Properties

Property code	Value	Unit	Source
gf	-401.40	kJ/mol	Joback Method
hf	-864.16	kJ/mol	Joback Method
hfus	26.52	kJ/mol	Joback Method
hvap	61.31	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	1.951		Crippen Method
mcvol	228.870	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
rinpol	1603.00		NIST Webbook
rinpol	1604.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1601.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1601.00		NIST Webbook
rinpol	1604.00		NIST Webbook
rinpol	1601.00		NIST Webbook
rinpol	1602.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1602.00		NIST Webbook
rinpol	1602.00		NIST Webbook
tb	658.63	K	Joback Method
tc	836.61	K	Joback Method
tf	339.63	K	Joback Method
vc	0.861	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	633.86	J/mol×K	658.63	Joback Method
cpg	709.19	J/mol×K	806.95	Joback Method
cpg	695.66	J/mol×K	777.29	Joback Method
cpg	681.35	J/mol×K	747.62	Joback Method
cpg	666.27	J/mol×K	717.96	Joback Method
cpg	650.44	J/mol×K	688.29	Joback Method
cpg	721.94	J/mol×K	836.61	Joback Method
dvisc	0.0000605	Pa×s	658.63	Joback Method
dvisc	0.0000835	Pa×s	605.46	Joback Method
dvisc	0.0001225	Pa×s	552.30	Joback Method
dvisc	0.0001951	Pa×s	499.13	Joback Method
dvisc	0.0003470	Pa×s	445.96	Joback Method
dvisc	0.0007215	Pa×s	392.80	Joback Method
dvisc	0.0018864	Pa×s	339.63	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R152320&Units=SI

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume