Dipropylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C11H20O4/c1-5-6-13-9(2)7-14-10(3)8-15-11(4)12/h5,9-10H,1,6-8H2,2-4H3
InchiKey: KTOJRRMTHRFSAE-UHFFFAOYSA-N
Formula: C11H20O4
SMILES: C=CCOC(C)COC(C)COC(C)=O
Mol. weight [g/mol]: 216.27

Physical Properties

Property code	Value	Unit	Source
gf	-319.22	kJ/mol	Joback Method
hf	-664.74	kJ/mol	Joback Method
hfus	21.08	kJ/mol	Joback Method
hvap	52.61	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.546		Crippen Method
mcvol	180.730	ml/mol	McGowan Method
pc	2058.62	kPa	Joback Method
rinpol	1302.00		NIST Webbook
rinpol	1296.00		NIST Webbook
rinpol	1304.00		NIST Webbook
rinpol	1297.00		NIST Webbook
rinpol	1302.00		NIST Webbook
rinpol	1298.00		NIST Webbook
rinpol	1297.00		NIST Webbook
rinpol	1298.00		NIST Webbook
rinpol	1299.00		NIST Webbook
rinpol	1294.00		NIST Webbook
rinpol	1299.00		NIST Webbook
rinpol	1301.00		NIST Webbook
rinpol	1297.00		NIST Webbook
rinpol	1294.00		NIST Webbook
rinpol	1302.00		NIST Webbook
tb	568.01	K	Joback Method
tc	747.27	K	Joback Method
tf	298.59	K	Joback Method
vc	0.680	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	449.69	J/mol×K	568.01	Joback Method
cpg	464.36	J/mol×K	597.89	Joback Method
cpg	478.45	J/mol×K	627.76	Joback Method
cpg	491.98	J/mol×K	657.64	Joback Method
cpg	504.92	J/mol×K	687.52	Joback Method
cpg	517.27	J/mol×K	717.39	Joback Method
cpg	529.03	J/mol×K	747.27	Joback Method
dvisc	0.0027404	Pa×s	298.59	Joback Method
dvisc	0.0011572	Pa×s	343.49	Joback Method
dvisc	0.0005964	Pa×s	388.40	Joback Method
dvisc	0.0003527	Pa×s	433.30	Joback Method
dvisc	0.0002302	Pa×s	478.20	Joback Method
dvisc	0.0001616	Pa×s	523.11	Joback Method
dvisc	0.0001200	Pa×s	568.01	Joback Method

Sources

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=R151956&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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