Dipropylene glycol, diacetate

Inchi: InChI=1S/C10H18O5/c1-7(5-14-9(3)11)13-6-8(2)15-10(4)12/h7-8H,5-6H2,1-4H3
InchiKey: FLPPEMNGWYFRSK-UHFFFAOYSA-N
Formula: C10H18O5
SMILES: CC(=O)OCC(C)OCC(C)OC(C)=O
Mol. weight [g/mol]: 218.25

Physical Properties

Property code	Value	Unit	Source
gf	-544.40	kJ/mol	Joback Method
hf	-882.11	kJ/mol	Joback Method
hfus	21.37	kJ/mol	Joback Method
hvap	57.80	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	0.906		Crippen Method
mcvol	172.510	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpol	1322.00		NIST Webbook
rinpol	1317.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1322.00		NIST Webbook
rinpol	1322.00		NIST Webbook
rinpol	1318.00		NIST Webbook
rinpol	1288.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1316.00		NIST Webbook
rinpol	1314.00		NIST Webbook
rinpol	1322.00		NIST Webbook
rinpol	1317.00		NIST Webbook
rinpol	1314.00		NIST Webbook
rinpol	1288.00		NIST Webbook
rinpol	1296.00		NIST Webbook
rinpol	1320.00		NIST Webbook
rinpol	1322.00		NIST Webbook
tb	602.32	K	Joback Method
tc	788.05	K	Joback Method
tf	339.01	K	Joback Method

vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.17	J/mol×K	602.32	Joback Method
cpg	504.45	J/mol×K	757.09	Joback Method
cpg	493.19	J/mol×K	726.14	Joback Method
cpg	481.33	J/mol×K	695.18	Joback Method
cpg	468.86	J/mol×K	664.23	Joback Method
cpg	455.80	J/mol×K	633.27	Joback Method
cpg	515.07	J/mol×K	788.05	Joback Method
dvisc	0.0001305	Pa×s	602.32	Joback Method
dvisc	0.0001735	Pa×s	558.43	Joback Method
dvisc	0.0002423	Pa×s	514.55	Joback Method
dvisc	0.0003601	Pa×s	470.66	Joback Method
dvisc	0.0005806	Pa×s	426.78	Joback Method
dvisc	0.0010443	Pa×s	382.89	Joback Method
dvisc	0.0021870	Pa×s	339.01	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R151941&Units=SI

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

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