Propylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C8H14O3/c1-4-5-10-6-7(2)11-8(3)9/h4,7H,1,5-6H2,2-3H3
InchiKey: RGLXHIFBHJMQQI-UHFFFAOYSA-N
Formula: C8H14O3
SMILES: C=CCOCC(C)OC(C)=O
Mol. weight [g/mol]: 158.19

Physical Properties

Property code	Value	Unit	Source
gf	-237.04	kJ/mol	Joback Method
hf	-465.32	kJ/mol	Joback Method
hfus	15.65	kJ/mol	Joback Method
hvap	43.91	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	1.141		Crippen Method
mcvol	132.590	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
rinpol	1012.00		NIST Webbook
rinpol	1012.00		NIST Webbook
rinpol	1013.00		NIST Webbook
rinpol	1015.00		NIST Webbook
rinpol	1010.00		NIST Webbook
rinpol	1013.00		NIST Webbook
rinpol	1012.00		NIST Webbook
rinpol	1018.00		NIST Webbook
rinpol	1013.00		NIST Webbook
rinpol	1012.00		NIST Webbook
rinpol	1012.00		NIST Webbook
rinpol	1018.00		NIST Webbook
rinpol	1016.00		NIST Webbook
rinpol	1015.00		NIST Webbook
rinpol	1018.00		NIST Webbook
tb	477.39	K	Joback Method
tc	659.19	K	Joback Method
tf	257.55	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.73	J/mol×K	477.39	Joback Method
cpg	298.50	J/mol×K	507.69	Joback Method
cpg	309.87	J/mol×K	537.99	Joback Method
cpg	320.81	J/mol×K	568.29	Joback Method
cpg	331.35	J/mol×K	598.59	Joback Method
cpg	341.46	J/mol×K	628.89	Joback Method
cpg	351.15	J/mol×K	659.19	Joback Method
dvisc	0.0031442	Pa×s	257.55	Joback Method
dvisc	0.0015027	Pa×s	294.19	Joback Method
dvisc	0.0008458	Pa×s	330.83	Joback Method
dvisc	0.0005338	Pa×s	367.47	Joback Method
dvisc	0.0003663	Pa×s	404.11	Joback Method
dvisc	0.0002676	Pa×s	440.75	Joback Method
dvisc	0.0002051	Pa×s	477.39	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=R152266&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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