Glycerol - propyleneglycol ether, triacetate

Inchi: InChI=1S/C12H20O7/c1-8(5-17-9(2)13)16-6-12(19-11(4)15)7-18-10(3)14/h8,12H,5-7H2,1
InchiKey: KORTUIJSLORALE-UHFFFAOYSA-N
Formula: C12H20O7
SMILES: CC(=O)OCC(C)OCC(COC(C)=O)OC(C)=O
Mol. weight [g/mol]: 276.28

Physical Properties

Property code	Value	Unit	Source
gf	-761.48	kJ/mol	Joback Method
hf	-1168.19	kJ/mol	Joback Method
hfus	29.34	kJ/mol	Joback Method
hvap	71.41	kJ/mol	Joback Method
log10ws	-0.74		Crippen Method
logp	0.449		Crippen Method
mcvol	208.130	ml/mol	McGowan Method
pc	2005.50	kPa	Joback Method
rinpol	1634.00		NIST Webbook
rinpol	1637.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1634.00		NIST Webbook
rinpol	1637.00		NIST Webbook
rinpol	1634.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1632.00		NIST Webbook
rinpol	1636.00		NIST Webbook
rinpol	1634.00		NIST Webbook
tb	724.37	K	Joback Method
tc	913.85	K	Joback Method
tf	433.71	K	Joback Method
vc	0.785	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.89	J/mol×K	724.37	Joback Method
cpg	604.42	J/mol×K	755.95	Joback Method
cpg	617.15	J/mol×K	787.53	Joback Method
cpg	629.07	J/mol×K	819.11	Joback Method
cpg	640.15	J/mol×K	850.69	Joback Method
cpg	650.38	J/mol×K	882.27	Joback Method
cpg	659.72	J/mol×K	913.85	Joback Method
dvisc	0.0009594	Pa×s	433.71	Joback Method
dvisc	0.0005082	Pa×s	482.15	Joback Method
dvisc	0.0003023	Pa×s	530.60	Joback Method
dvisc	0.0001962	Pa×s	579.04	Joback Method
dvisc	0.0001361	Pa×s	627.48	Joback Method
dvisc	0.0000995	Pa×s	675.93	Joback Method
dvisc	0.0000758	Pa×s	724.37	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R152048&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

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