

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,
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	1632.00		NIST Webbook
rinpol	1634.00		NIST Webbook
rinpol	1640.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1637.00		NIST Webbook
rinpol	1634.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1637.00		NIST Webbook
rinpol	1634.00		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/molxK	724.37	Joback Method
cpg	650.38	J/molxK	882.27	Joback Method
cpg	640.15	J/molxK	850.69	Joback Method
cpg	629.07	J/molxK	819.11	Joback Method
cpg	617.15	J/molxK	787.53	Joback Method
cpg	604.42	J/molxK	755.95	Joback Method
cpg	659.72	J/molxK	913.85	Joback Method
dvisc	0.0000758	Paxs	724.37	Joback Method
dvisc	0.0000995	Paxs	675.93	Joback Method
dvisc	0.0001361	Paxs	627.48	Joback Method
dvisc	0.0001962	Paxs	579.04	Joback Method
dvisc	0.0003023	Paxs	530.60	Joback Method
dvisc	0.0005082	Paxs	482.15	Joback Method
dvisc	0.0009594	Paxs	433.71	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=R152048&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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