

Glycerol - tripropylene glycol ether, triacetate

Inchi: InChI=1S/C18H32O9/c1-12(7-23-14(3)9-25-15(4)19)22-8-13(2)24-10-18(27-17(6)21)11-2
InchiKey: CXMIOLAITPOURG-UHFFFAOYSA-N
Formula: C18H32O9
SMILES: CC(=O)OCC(C)OCC(C)OCC(C)OCC(COC(C)=O)OC(C)=O
Mol. weight [g/mol]: 392.44

Physical Properties

Property code	Value	Unit	Source
gf	-925.84	kJ/mol	Joback Method
hf	-1567.03	kJ/mol	Joback Method
hfus	40.21	kJ/mol	Joback Method
hvap	88.81	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.260		Crippen Method
mcvol	304.410	ml/mol	McGowan Method
pc	1251.26	kPa	Joback Method
rinpol	2179.00		NIST Webbook
rinpol	2177.00		NIST Webbook
rinpol	2180.00		NIST Webbook
rinpol	2177.00		NIST Webbook
rinpol	2178.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2174.00		NIST Webbook
rinpol	2174.00		NIST Webbook
rinpol	2180.00		NIST Webbook
rinpol	2180.00		NIST Webbook
rinpol	2172.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2180.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2180.00		NIST Webbook
tb	905.61	K	Joback Method
tc	1109.44	K	Joback Method
tf	515.79	K	Joback Method
vc	1.145	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	992.02	J/molxK	905.61	Joback Method
cpg	1048.01	J/molxK	1075.47	Joback Method
cpg	1040.11	J/molxK	1041.50	Joback Method
cpg	1030.52	J/molxK	1007.52	Joback Method
cpg	1019.29	J/molxK	973.55	Joback Method
cpg	1006.44	J/molxK	939.58	Joback Method
cpg	1054.19	J/molxK	1109.44	Joback Method
dvisc	0.0000144	Paxs	905.61	Joback Method
dvisc	0.0000196	Paxs	840.64	Joback Method
dvisc	0.0000281	Paxs	775.67	Joback Method
dvisc	0.0000431	Paxs	710.70	Joback Method
dvisc	0.0000720	Paxs	645.73	Joback Method
dvisc	0.0001350	Paxs	580.76	Joback Method
dvisc	0.0002965	Paxs	515.79	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R152068&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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