Tripropylene glycol, diacetate

Inchi: InChI=1S/C13H24O6/c1-9(17-8-11(3)19-13(5)15)6-16-10(2)7-18-12(4)14/h9-11H,6-8H2,
InchiKey: HFNFWZALUXHJQK-UHFFFAOYSA-N
Formula: C13H24O6
SMILES: CC(=O)OCC(C)OCC(C)OCC(C)OC(C)=O
Mol. weight [g/mol]: 276.33

Physical Properties

Property code	Value	Unit	Source
gf	-626.58	kJ/mol	Joback Method
hf	-1081.53	kJ/mol	Joback Method
hfus	26.81	kJ/mol	Joback Method
hvap	66.50	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.311		Crippen Method
mcvol	220.650	ml/mol	McGowan Method
pc	1759.49	kPa	Joback Method
rinpol	1600.00		NIST Webbook
rinpol	1598.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1599.00		NIST Webbook
rinpol	1598.00		NIST Webbook
rinpol	1604.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1598.00		NIST Webbook
rinpol	1595.00		NIST Webbook
rinpol	1578.00		NIST Webbook
rinpol	1596.00		NIST Webbook
rinpol	1597.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1602.00		NIST Webbook
rinpol	1599.00		NIST Webbook
rinpol	1597.00		NIST Webbook
rinpol	1560.00		NIST Webbook
rinpol	1562.00		NIST Webbook
rinpol	1567.00		NIST Webbook
rinpol	1572.00		NIST Webbook
rinpol	1574.00		NIST Webbook

rinpol	1578.00		NIST Webbook
rinpol	1560.00		NIST Webbook
tb	692.94	K	Joback Method
tc	876.84	K	Joback Method
tf	380.05	K	Joback Method
vc	0.830	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	626.21	J/mol×K	692.94	Joback Method
cpg	695.52	J/mol×K	846.19	Joback Method
cpg	683.29	J/mol×K	815.54	Joback Method
cpg	670.23	J/mol×K	784.89	Joback Method
cpg	656.36	J/mol×K	754.24	Joback Method
cpg	641.67	J/mol×K	723.59	Joback Method
cpg	706.89	J/mol×K	876.84	Joback Method
dvisc	0.0000637	Pa×s	692.94	Joback Method
dvisc	0.0000867	Pa×s	640.79	Joback Method
dvisc	0.0001247	Pa×s	588.64	Joback Method
dvisc	0.0001925	Pa×s	536.50	Joback Method
dvisc	0.0003262	Pa×s	484.35	Joback Method
dvisc	0.0006279	Pa×s	432.20	Joback Method
dvisc	0.0014465	Pa×s	380.05	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R152315&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