Tetrapropylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C17H32O6/c1-7-8-19-9-13(2)20-10-14(3)21-11-15(4)22-12-16(5)23-17(6)18/h7
InchiKey: WZEGDFKELOHDFG-UHFFFAOYSA-N
Formula: C17H32O6
SMILES: C=CCOCC(C)OCC(C)OCC(C)OCC(C)OC(C)=O
Mol. weight [g/mol]: 332.43

Physical Properties

Property code	Value	Unit	Source
gf	-483.58	kJ/mol	Joback Method
hf	-1063.58	kJ/mol	Joback Method
hfus	31.95	kJ/mol	Joback Method
hvap	70.01	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.356		Crippen Method
mcvol	277.010	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	1866.00		NIST Webbook
rinpol	1861.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1861.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1868.00		NIST Webbook
rinpol	1868.00		NIST Webbook
rinpol	1869.00		NIST Webbook
rinpol	1862.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1868.00		NIST Webbook
rinpol	1863.00		NIST Webbook
rinpol	1863.00		NIST Webbook
rinpol	1862.00		NIST Webbook
tb	749.25	K	Joback Method
tc	930.01	K	Joback Method
tf	380.67	K	Joback Method
vc	1.040	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	834.52	J/mol×K	749.25	Joback Method
cpg	852.28	J/mol×K	779.38	Joback Method
cpg	869.05	J/mol×K	809.50	Joback Method
cpg	884.83	J/mol×K	839.63	Joback Method
cpg	899.60	J/mol×K	869.76	Joback Method
cpg	913.35	J/mol×K	899.89	Joback Method
cpg	926.06	J/mol×K	930.01	Joback Method
dvisc	0.0011122	Pa×s	380.67	Joback Method
dvisc	0.0003924	Pa×s	442.10	Joback Method
dvisc	0.0001785	Pa×s	503.53	Joback Method
dvisc	0.0000964	Pa×s	564.96	Joback Method
dvisc	0.0000587	Pa×s	626.39	Joback Method
dvisc	0.0000391	Pa×s	687.82	Joback Method
dvisc	0.0000278	Pa×s	749.25	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R152291&Units=SI

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