di-Propoxylated neopentyl glycol diacrylate

Inchi: InChI=1S/C17H28O6/c1-7-15(18)22-13(3)9-20-11-17(5,6)12-21-10-14(4)23-16(19)8-2/h7
InchiKey: OYQUQPDCEZZCAL-UHFFFAOYSA-N
Formula: C17H28O6
SMILES: C=CC(=O)OC(C)COCC(C)(C)COCC(C)OC(=O)C=C
Mol. weight [g/mol]: 328.40

Physical Properties

Property code	Value	Unit	Source
gf	-411.94	kJ/mol	Joback Method
hf	-916.70	kJ/mol	Joback Method
hfus	30.72	kJ/mol	Joback Method
hvap	73.16	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.281		Crippen Method
mcvol	268.410	ml/mol	McGowan Method
pc	1399.59	kPa	Joback Method
rinpol	1852.00		NIST Webbook
rinpol	1852.00		NIST Webbook
rinpol	1897.00		NIST Webbook
tb	775.03	K	Joback Method
tc	965.71	K	Joback Method
tf	439.03	K	Joback Method
vc	1.010	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	802.44	J/mol×K	775.03	Joback Method
cpg	872.13	J/mol×K	933.93	Joback Method
cpg	860.16	J/mol×K	902.15	Joback Method
cpg	847.23	J/mol×K	870.37	Joback Method
cpg	833.30	J/mol×K	838.59	Joback Method
cpg	818.38	J/mol×K	806.81	Joback Method
cpg	883.13	J/mol×K	965.71	Joback Method

dvisc	0.0000359	Pa×s	775.03	Joback Method
dvisc	0.0000490	Pa×s	719.03	Joback Method
dvisc	0.0000703	Pa×s	663.03	Joback Method
dvisc	0.0001079	Pa×s	607.03	Joback Method
dvisc	0.0001806	Pa×s	551.03	Joback Method
dvisc	0.0003397	Pa×s	495.03	Joback Method
dvisc	0.0007508	Pa×s	439.03	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=R508248&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