Propoxylated neopentyl glycol diacrylate

Inchi: InChI=1S/C14H22O5/c1-6-12(15)18-10-14(4,5)9-17-8-11(3)19-13(16)7-2/h6-7,11H,1-2,8
InchiKey: SDMYEUPNWYNFGW-UHFFFAOYSA-N
Formula: C14H22O5
SMILES: C=CC(=O)OCC(C)(C)COCC(C)OC(=O)C=C
Mol. weight [g/mol]: 270.32

Physical Properties

Property code	Value	Unit	Source
gf	-329.76	kJ/mol	Joback Method
hf	-717.28	kJ/mol	Joback Method
hfus	25.28	kJ/mol	Joback Method
hvap	64.46	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.876		Crippen Method
mcvol	220.270	ml/mol	McGowan Method
pc	1771.36	kPa	Joback Method
rinpol	1619.00		NIST Webbook
rinpol	1619.00		NIST Webbook
tb	684.41	K	Joback Method
tc	874.80	K	Joback Method
tf	397.99	K	Joback Method
vc	0.831	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.66	J/mol×K	684.41	Joback Method
cpg	621.66	J/mol×K	716.14	Joback Method
cpg	635.81	J/mol×K	747.87	Joback Method
cpg	649.14	J/mol×K	779.61	Joback Method
cpg	661.65	J/mol×K	811.34	Joback Method
cpg	673.37	J/mol×K	843.07	Joback Method
cpg	684.31	J/mol×K	874.80	Joback Method
dvisc	0.0012803	Pa×s	397.99	Joback Method

dvisc	0.0006300	Pa×s	445.73	Joback Method
dvisc	0.0003556	Pa×s	493.46	Joback Method
dvisc	0.0002220	Pa×s	541.20	Joback Method
dvisc	0.0001496	Pa×s	588.94	Joback Method
dvisc	0.0001070	Pa×s	636.67	Joback Method
dvisc	0.0000801	Pa×s	684.41	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508540&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