di-ethoxylated 1,6 hexane diol diacrylate

Inchi: InChI=1S/C16H26O6/c1-3-15(17)21-13-11-19-9-7-5-6-8-10-20-12-14-22-16(18)4-2/h3-4H
InchiKey: GIMNDOUZTMKUHI-UHFFFAOYSA-N
Formula: C16H26O6
SMILES: C=CC(=O)OCCOCCCCCCOCCOC(=O)C=C
Mol. weight [g/mol]: 314.37

Physical Properties

Property code	Value	Unit	Source
gf	-418.32	kJ/mol	Joback Method
hf	-876.75	kJ/mol	Joback Method
hfus	42.59	kJ/mol	Joback Method
hvap	73.00	kJ/mol	Joback Method
log10ws	-2.13		Crippen Method
logp	2.038		Crippen Method
mcvol	254.320	ml/mol	McGowan Method
pc	1465.73	kPa	Joback Method
rinpol	2131.00		NIST Webbook
tb	756.26	K	Joback Method
tc	937.80	K	Joback Method
tf	455.34	K	Joback Method
vc	0.978	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.55	J/mol×K	756.26	Joback Method
cpg	757.66	J/mol×K	786.52	Joback Method
cpg	771.92	J/mol×K	816.77	Joback Method
cpg	785.32	J/mol×K	847.03	Joback Method
cpg	797.85	J/mol×K	877.28	Joback Method
cpg	809.53	J/mol×K	907.54	Joback Method
cpg	820.33	J/mol×K	937.80	Joback Method
dvisc	0.0006178	Pa×s	455.34	Joback Method
dvisc	0.0003455	Pa×s	505.49	Joback Method

dvisc	0.0002146	Pa×s	555.65	Joback Method
dvisc	0.0001442	Pa×s	605.80	Joback Method
dvisc	0.0001030	Pa×s	655.95	Joback Method
dvisc	0.0000771	Pa×s	706.11	Joback Method
dvisc	0.0000601	Pa×s	756.26	Joback Method

Sources

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=R508357&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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