

diacrylate of tetra-propoxylated glycerol (Acrylic acid

2-(3-{2-[2-(2-acryloyloxy-propoxy)-propoxy]-propoxy}-propoxy)-propoxy-ester)

SMILES: C=CC(=O)OC(C)COCC(O)COCC(C)OCC(C)OCC(C)OC(=O)C=C

Mol. weight [g/mol]: 432.51

Physical Properties

Property code	Value	Unit	Source
gf	-735.24	kJ/mol	Joback Method
hf	-1423.02	kJ/mol	Joback Method
hfus	44.38	kJ/mol	Joback Method
hvap	103.69	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	1.426		Crippen Method
mvol	342.380	ml/mol	McGowan Method
pc	1115.57	kPa	Joback Method
rinpol	2473.00		NIST Webbook
tb	1005.48	K	Joback Method
tc	1238.12	K	Joback Method
tf	541.97	K	Joback Method
vc	1.282	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1158.15	J/molxK	1005.48	Joback Method
cpg	1202.13	J/molxK	1199.35	Joback Method
cpg	1197.73	J/molxK	1160.58	Joback Method
cpg	1191.10	J/molxK	1121.80	Joback Method
cpg	1182.28	J/molxK	1083.03	Joback Method
cpg	1171.29	J/molxK	1044.25	Joback Method
cpg	1204.30	J/molxK	1238.12	Joback Method
dvisc	0.0000012	Paxs	1005.48	Joback Method
dvisc	0.0000018	Paxs	928.23	Joback Method

dvisc	0.0000031	Paxs	850.98	Joback Method
dvisc	0.0000058	Paxs	773.73	Joback Method
dvisc	0.0000123	Paxs	696.47	Joback Method
dvisc	0.0000317	Paxs	619.22	Joback Method
dvisc	0.0001073	Paxs	541.97	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508317&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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