

tri-propoxylated glycerol triacrylate (Acrylic acid

2-(2-acryloyloxy-3-[2-(2-acryloyloxy-propoxy)-pro
ester)

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

Mol. weight [g/mol]: 428.47

Physical Properties

Property code	Value	Unit	Source
gf	-637.06	kJ/mol	Joback Method
hf	-1252.66	kJ/mol	Joback Method
hfus	44.14	kJ/mol	Joback Method
hvap	93.48	kJ/mol	Joback Method
log10ws	-2.47		Crippen Method
logp	1.758		Crippen Method
mcvol	333.780	ml/mol	McGowan Method
pc	1119.30	kPa	Joback Method
rinpol	2418.00		NIST Webbook
tb	964.29	K	Joback Method
tc	1180.64	K	Joback Method
tf	544.32	K	Joback Method
vc	1.256	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.33	J/molxK	964.29	Joback Method
cpg	1097.53	J/molxK	1000.35	Joback Method
cpg	1108.97	J/molxK	1036.41	Joback Method
cpg	1118.62	J/molxK	1072.46	Joback Method
cpg	1126.47	J/molxK	1108.52	Joback Method
cpg	1132.49	J/molxK	1144.58	Joback Method
cpg	1136.68	J/molxK	1180.64	Joback Method
dvisc	0.0002182	Paxs	544.32	Joback Method
dvisc	0.0001002	Paxs	614.32	Joback Method

dvisc	0.0000540	Paxs	684.31	Joback Method
dvisc	0.0000326	Paxs	754.31	Joback Method
dvisc	0.0000215	Paxs	824.30	Joback Method
dvisc	0.0000151	Paxs	894.30	Joback Method
dvisc	0.0000112	Paxs	964.29	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508639&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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