

tri-propoxylated glycerol triacrylate (Acrylic acid

2-[2,3-bis-(2-acryloyloxy-propoxy)-propoxy]-1-methoxy-2-propanol ester)

SMILES: C=CC(=O)OC(C)COCC(COCC(C)OC(=O)C=C)OCC(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	2412.00		NIST Webbook
rinpol	2412.00		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/mol×K	964.29	Joback Method
cpg	1132.49	J/mol×K	1144.58	Joback Method
cpg	1126.47	J/mol×K	1108.52	Joback Method
cpg	1118.62	J/mol×K	1072.46	Joback Method
cpg	1108.97	J/mol×K	1036.41	Joback Method
cpg	1097.53	J/mol×K	1000.35	Joback Method
cpg	1136.68	J/mol×K	1180.64	Joback Method
dvisc	0.0000112	Pa×s	964.29	Joback Method

dvisc	0.0000151	Pa×s	894.30	Joback Method
dvisc	0.0000215	Pa×s	824.30	Joback Method
dvisc	0.0000326	Pa×s	754.31	Joback Method
dvisc	0.0000540	Pa×s	684.31	Joback Method
dvisc	0.0001002	Pa×s	614.32	Joback Method
dvisc	0.0002182	Pa×s	544.32	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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=R508624&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

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