

diacrylate of tri-propoxylated glycerol (Acrylic acid

2-[2-[3-(2-acryloyloxy-propoxy)-2-hydroxy-propoxy]ester)

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

Mol. weight [g/mol]: 374.43

Physical Properties

Property code	Value	Unit	Source
gf	-653.06	kJ/mol	Joback Method
hf	-1223.60	kJ/mol	Joback Method
hfus	38.95	kJ/mol	Joback Method
hvap	94.99	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	1.021		Crippen Method
mvol	294.240	ml/mol	McGowan Method
pc	1374.80	kPa	Joback Method
rinpol	2210.00		NIST Webbook
rinpol	2210.00		NIST Webbook
tb	914.86	K	Joback Method
tc	1120.05	K	Joback Method
tf	500.93	K	Joback Method
vc	1.103	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	951.14	J/molxK	914.86	Joback Method
cpg	1005.05	J/molxK	1085.85	Joback Method
cpg	997.04	J/molxK	1051.66	Joback Method
cpg	987.64	J/molxK	1017.46	Joback Method
cpg	976.85	J/molxK	983.26	Joback Method
cpg	964.68	J/molxK	949.06	Joback Method
cpg	1011.64	J/molxK	1120.05	Joback Method
dvisc	0.0000033	Paxs	914.86	Joback Method

dvisc	0.0000050	Paxs	845.87	Joback Method
dvisc	0.0000084	Paxs	776.88	Joback Method
dvisc	0.0000154	Paxs	707.89	Joback Method
dvisc	0.0000323	Paxs	638.91	Joback Method
dvisc	0.0000809	Paxs	569.92	Joback Method
dvisc	0.0002612	Paxs	500.93	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508337&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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