

dipropoxylated glycerol diacrylate (Acrylic acid

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

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

Mol. weight [g/mol]: 316.35

Physical Properties

Property code	Value	Unit	Source
gf	-570.88	kJ/mol	Joback Method
hf	-1024.18	kJ/mol	Joback Method
hfus	33.51	kJ/mol	Joback Method
hvap	86.29	kJ/mol	Joback Method
log10ws	-1.31		Crippen Method
logp	0.616		Crippen Method
mcvol	246.100	ml/mol	McGowan Method
pc	1736.11	kPa	Joback Method
rinpol	1971.00		NIST Webbook
rinpol	1971.00		NIST Webbook
tb	824.24	K	Joback Method
tc	1014.15	K	Joback Method
tf	459.89	K	Joback Method
vc	0.922	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.57	J/molxK	824.24	Joback Method
cpg	761.50	J/molxK	855.89	Joback Method
cpg	773.49	J/molxK	887.54	Joback Method
cpg	784.55	J/molxK	919.20	Joback Method
cpg	794.67	J/molxK	950.85	Joback Method
cpg	803.84	J/molxK	982.50	Joback Method
cpg	812.05	J/molxK	1014.15	Joback Method
dvisc	0.0006113	Paxs	459.89	Joback Method

dvisc	0.0001999	Paxs	520.62	Joback Method
dvisc	0.0000826	Paxs	581.34	Joback Method
dvisc	0.0000403	Paxs	642.07	Joback Method
dvisc	0.0000223	Paxs	702.79	Joback Method
dvisc	0.0000135	Paxs	763.51	Joback Method
dvisc	0.0000088	Paxs	824.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508382&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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