

di-ethoxylated trimethylol propane triacrylate (Acrylic acid

2,2-bis-(2-acryloyloxy-ethoxymethyl)-butyl ester)

SMILES: C=CC(=O)OCCOCC(CC)(COCCOC(=O)C=C)COC(=O)C=C

Mol. weight [g/mol]: 384.42

Physical Properties

Property code	Value	Unit	Source
gf	-536.30	kJ/mol	Joback Method
hf	-1066.79	kJ/mol	Joback Method
hfus	44.45	kJ/mol	Joback Method
hvap	86.87	kJ/mol	Joback Method
log10ws	-1.86		Crippen Method
logp	1.604		Crippen Method
mcvol	299.730	ml/mol	McGowan Method
pc	1281.91	kPa	Joback Method
rinsol	2323.00		NIST Webbook
tb	894.64	K	Joback Method
tc	1097.43	K	Joback Method
tf	561.97	K	Joback Method
vc	1.139	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.52	J/molxK	894.64	Joback Method
cpg	992.65	J/molxK	1063.63	Joback Method
cpg	983.83	J/molxK	1029.83	Joback Method
cpg	973.81	J/molxK	996.03	Joback Method
cpg	962.60	J/molxK	962.24	Joback Method
cpg	950.17	J/molxK	928.44	Joback Method
cpg	1000.28	J/molxK	1097.43	Joback Method
dvisc	0.0000232	Paxs	894.64	Joback Method
dvisc	0.0000300	Paxs	839.19	Joback Method

dvisc	0.0000403	Paxs	783.75	Joback Method
dvisc	0.0000565	Paxs	728.31	Joback Method
dvisc	0.0000840	Paxs	672.86	Joback Method
dvisc	0.0001338	Paxs	617.41	Joback Method
dvisc	0.0002339	Paxs	561.97	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508377&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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