

tri-ethoxylated trimethylol propane triacrylate (Acrylic acid

2-[2-(2-acryloyloxy-ethoxy)-ethoxymethyl]-2-(2-acryloyloxy-ethoxy)-ethoxyethyl acrylate
InChIKey: MTPZGFBYCHTGG-UHFFFAOYSA-N
C21H32O9

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

Mol. weight [g/mol]: 428.47

Physical Properties

Property code	Value	Unit	Source
gf	-624.46	kJ/mol	Joback Method
hf	-1240.29	kJ/mol	Joback Method
hfus	50.82	kJ/mol	Joback Method
hvap	93.73	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	1.620		Crippen Method
mcvol	333.780	ml/mol	McGowan Method
pc	1109.63	kPa	Joback Method
rinpol	2592.00		NIST Webbook
rinpol	2592.00		NIST Webbook
tb	962.82	K	Joback Method
tc	1179.07	K	Joback Method
tf	606.74	K	Joback Method
vc	1.270	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1082.94	J/molxK	962.82	Joback Method
cpg	1096.33	J/molxK	998.86	Joback Method
cpg	1108.13	J/molxK	1034.90	Joback Method
cpg	1118.32	J/molxK	1070.95	Joback Method
cpg	1126.92	J/molxK	1106.99	Joback Method
cpg	1133.92	J/molxK	1143.03	Joback Method
cpg	1139.33	J/molxK	1179.07	Joback Method
dvisc	0.0001255	Paxs	606.74	Joback Method

dvisc	0.0000718	Paxs	666.09	Joback Method
dvisc	0.0000450	Paxs	725.43	Joback Method
dvisc	0.0000303	Paxs	784.78	Joback Method
dvisc	0.0000215	Paxs	844.13	Joback Method
dvisc	0.0000160	Paxs	903.47	Joback Method
dvisc	0.0000123	Paxs	962.82	Joback Method

Sources

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=R508604&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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