

# tri-ethoxylated trimethylol propane triacrylate (Acrylic acid

**2-[2-[2-(2-acryloyloxy-ethoxy)-ethoxy]-ethoxy]-ethoxymethyl ester)**

**SMILES:** C=CC(=O)OCCOCCOCC(CC)(COCCOC(=O)C=C)COC(=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
rinpola	2611.00		NIST Webbook
tb	962.82	K	Joback Method
tc	1179.07	K	Joback Method
tf	606.74	K	Joback Method
vc	1.270	m <sup>3</sup> /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

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R508619&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R508619&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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