

# dipropoxylated glycerol triacrylate (Acrylic acid

**2-acryloyloxy-3-[2-(2-acryloyloxy-propoxy)-propoxy]-propyl ester)**

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

**Mol. weight [g/mol]:** 370.39

## Physical Properties

Property code	Value	Unit	Source
gf	-554.88	kJ/mol	Joback Method
hf	-1053.24	kJ/mol	Joback Method
hfus	38.70	kJ/mol	Joback Method
hvap	84.78	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	1.353		Crippen Method
mcvol	285.640	ml/mol	McGowan Method
pc	1379.91	kPa	Joback Method
rinpol	2152.00		NIST Webbook
tb	873.67	K	Joback Method
tc	1074.18	K	Joback Method
tf	503.28	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	878.80	J/molxK	873.67	Joback Method
cpg	892.37	J/molxK	907.09	Joback Method
cpg	904.71	J/molxK	940.51	Joback Method
cpg	915.81	J/molxK	973.92	Joback Method
cpg	925.66	J/molxK	1007.34	Joback Method
cpg	934.24	J/molxK	1040.76	Joback Method
cpg	941.55	J/molxK	1074.18	Joback Method
dvisc	0.0004174	Paxs	503.28	Joback Method
dvisc	0.0002051	Paxs	565.01	Joback Method

dvisc	0.0001160	Paxs	626.74	Joback Method
dvisc	0.0000726	Paxs	688.48	Joback Method
dvisc	0.0000491	Paxs	750.21	Joback Method
dvisc	0.0000352	Paxs	811.94	Joback Method
dvisc	0.0000265	Paxs	873.67	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R508431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R508431&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>
<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>

## 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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