

# EO-HDDA (mono-ethoxylated 1,6 hexane diol diacrylate)

Inchi:	InChI=1S/C14H22O5/c1-3-13(15)18-10-8-6-5-7-9-17-11-12-19-14(16)4-2/h3-4H,1-2,5-12
InchiKey:	WRQBESIGLKAAO-UHFFFAOYSA-N
Formula:	C14H22O5
SMILES:	C=CC(=O)OCCCCCOCCOC(=O)C=C
Mol. weight [g/mol]:	270.32

## Physical Properties

Property code	Value	Unit	Source
gf	-330.16	kJ/mol	Joback Method
hf	-703.25	kJ/mol	Joback Method
hfus	36.22	kJ/mol	Joback Method
hvap	66.14	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	2.022		Crippen Method
mcvol	220.270	ml/mol	McGowan Method
pc	1731.78	kPa	Joback Method
rinpol	1860.00		NIST Webbook
rinpol	1860.00		NIST Webbook
tb	688.08	K	Joback Method
tc	868.44	K	Joback Method
tf	410.57	K	Joback Method
vc	0.848	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	603.53	J/molxK	688.08	Joback Method
cpg	668.31	J/molxK	838.38	Joback Method
cpg	656.78	J/molxK	808.32	Joback Method
cpg	644.54	J/molxK	778.26	Joback Method
cpg	631.58	J/molxK	748.20	Joback Method
cpg	617.91	J/molxK	718.14	Joback Method
cpg	679.12	J/molxK	868.44	Joback Method
dvisc	0.0001022	Paxs	688.08	Joback Method

dvisc	0.0001308	Paxs	641.83	Joback Method
dvisc	0.0001739	Paxs	595.58	Joback Method
dvisc	0.0002427	Paxs	549.33	Joback Method
dvisc	0.0003601	Paxs	503.07	Joback Method
dvisc	0.0005787	Paxs	456.82	Joback Method
dvisc	0.0010348	Paxs	410.57	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R508451&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R508451&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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