

# Diglycolic acid, ethyl octyl ester

<b>Inchi:</b>	InChI=1S/C14H26O5/c1-3-5-6-7-8-9-10-19-14(16)12-17-11-13(15)18-4-2/h3-12H2,1-2H3
<b>InchiKey:</b>	HETLXPGGZVPZIP-UHFFFAOYSA-N
<b>Formula:</b>	C14H26O5
<b>SMILES:</b>	CCCCCCCCOC(=O)COCC(=O)OCC
<b>Mol. weight [g/mol]:</b>	274.35

## Physical Properties

Property code	Value	Unit	Source
gf	-505.84	kJ/mol	Joback Method
hf	-954.11	kJ/mol	Joback Method
hfus	38.78	kJ/mol	Joback Method
hvap	67.48	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.470		Crippen Method
mvol	228.870	ml/mol	McGowan Method
pc	1616.77	kPa	Joback Method
rmpol	2275.00		NIST Webbook
rmpol	2275.00		NIST Webbook
tb	694.72	K	Joback Method
tc	871.11	K	Joback Method
tf	414.09	K	Joback Method
vc	0.885	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	651.00	J/molxK	694.72	Joback Method
cpg	720.92	J/molxK	841.71	Joback Method
cpg	708.43	J/molxK	812.31	Joback Method
cpg	695.18	J/molxK	782.91	Joback Method
cpg	681.20	J/molxK	753.52	Joback Method
cpg	666.47	J/molxK	724.12	Joback Method
cpg	732.66	J/molxK	871.11	Joback Method
dvisc	0.0000920	Paxs	694.72	Joback Method

dvisc	0.0001192	Paxs	647.95	Joback Method
dvisc	0.0001607	Paxs	601.18	Joback Method
dvisc	0.0002278	Paxs	554.40	Joback Method
dvisc	0.0003444	Paxs	507.63	Joback Method
dvisc	0.0005663	Paxs	460.86	Joback Method
dvisc	0.0010418	Paxs	414.09	Joback Method

## Sources

<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=U382109&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382109&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>

## 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>h<sub>vap</sub>:</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>rin<sub>pol</sub>:</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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