

# Diglycolic acid, 3-phenylpropyl propyl ester

<b>Inchi:</b>	InChI=1S/C16H22O5/c1-2-10-20-15(17)12-19-13-16(18)21-11-6-9-14-7-4-3-5-8-14/h3-5,
<b>InchiKey:</b>	BTHGVXMPAVDFEP-UHFFFAOYSA-N
<b>Formula:</b>	C16H22O5
<b>SMILES:</b>	CCCOC(=O)COCC(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	294.34

## Physical Properties

Property code	Value	Unit	Source
gf	-376.59	kJ/mol	Joback Method
hf	-758.86	kJ/mol	Joback Method
hfus	38.00	kJ/mol	Joback Method
hvap	74.21	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.132		Crippen Method
mvol	233.290	ml/mol	McGowan Method
pc	1813.86	kPa	Joback Method
rmpol	2722.00		NIST Webbook
rmpol	2722.00		NIST Webbook
tb	767.16	K	Joback Method
tc	967.46	K	Joback Method
tf	463.05	K	Joback Method
vc	0.889	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	677.14	J/molxK	767.16	Joback Method
cpg	691.99	J/molxK	800.54	Joback Method
cpg	705.82	J/molxK	833.93	Joback Method
cpg	718.66	J/molxK	867.31	Joback Method
cpg	730.48	J/molxK	900.69	Joback Method
cpg	741.32	J/molxK	934.07	Joback Method
cpg	751.15	J/molxK	967.46	Joback Method
dvisc	0.0007211	Paxs	463.05	Joback Method

dvisc	0.0004049	Paxs	513.73	Joback Method
dvisc	0.0002521	Paxs	564.42	Joback Method
dvisc	0.0001698	Paxs	615.11	Joback Method
dvisc	0.0001214	Paxs	665.79	Joback Method
dvisc	0.0000910	Paxs	716.47	Joback Method
dvisc	0.0000709	Paxs	767.16	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382170&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382170&amp;Units=SI</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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