

# Diglycolic acid, isobutyl phenethyl ester

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

## Physical Properties

Property code	Value	Unit	Source
gf	-379.03	kJ/mol	Joback Method
hf	-764.14	kJ/mol	Joback Method
hfus	34.48	kJ/mol	Joback Method
hvap	73.82	kJ/mol	Joback Method
log10ws	-2.19		Crippen Method
logp	1.988		Crippen Method
mvol	233.290	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
rmpol	2671.00		NIST Webbook
rmpol	2671.00		NIST Webbook
tb	766.72	K	Joback Method
tc	969.72	K	Joback Method
tf	448.05	K	Joback Method
vc	0.883	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	677.69	J/molxK	766.72	Joback Method
cpg	692.74	J/molxK	800.55	Joback Method
cpg	706.75	J/molxK	834.39	Joback Method
cpg	719.71	J/molxK	868.22	Joback Method
cpg	731.63	J/molxK	902.05	Joback Method
cpg	742.52	J/molxK	935.89	Joback Method
cpg	752.38	J/molxK	969.72	Joback Method
dvisc	0.0008347	Paxs	448.05	Joback Method

dvisc	0.0004359	Paxs	501.16	Joback Method
dvisc	0.0002578	Paxs	554.27	Joback Method
dvisc	0.0001671	Paxs	607.38	Joback Method
dvisc	0.0001162	Paxs	660.50	Joback Method
dvisc	0.0000852	Paxs	713.61	Joback Method
dvisc	0.0000653	Paxs	766.72	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=U382157&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382157&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>
<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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