

# Diglycolic acid, isobutyl neopentyl ester

<b>Inchi:</b>	InChI=1S/C13H24O5/c1-10(2)6-17-11(14)7-16-8-12(15)18-9-13(3,4)5/h10H,6-9H2,1-5H3
<b>InchiKey:</b>	JWUXQOVRODNNGU-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O5
<b>SMILES:</b>	CC(C)COC(=O)COCC(=O)OCC(C)(C)C
<b>Mol. weight [g/mol]:</b>	260.33

## Physical Properties

Property code	Value	Unit	Source
gf	-513.86	kJ/mol	Joback Method
hf	-947.50	kJ/mol	Joback Method
hfus	25.25	kJ/mol	Joback Method
hvap	63.57	kJ/mol	Joback Method
log10ws	-1.59		Crippen Method
logp	1.791		Crippen Method
mcvol	214.780	ml/mol	McGowan Method
pc	1789.39	kPa	Joback Method
rinpol	1960.00		NIST Webbook
rinpol	1960.00		NIST Webbook
tb	668.17	K	Joback Method
tc	854.57	K	Joback Method
tf	390.24	K	Joback Method
vc	0.812	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	599.63	J/molxK	668.17	Joback Method
cpg	615.26	J/molxK	699.24	Joback Method
cpg	630.08	J/molxK	730.30	Joback Method
cpg	644.10	J/molxK	761.37	Joback Method
cpg	657.32	J/molxK	792.44	Joback Method
cpg	669.74	J/molxK	823.51	Joback Method
cpg	681.38	J/molxK	854.57	Joback Method
dvisc	0.0014313	Paxs	390.24	Joback Method

dvisc	0.0006922	Paxs	436.56	Joback Method
dvisc	0.0003849	Paxs	482.88	Joback Method
dvisc	0.0002371	Paxs	529.21	Joback Method
dvisc	0.0001580	Paxs	575.53	Joback Method
dvisc	0.0001118	Paxs	621.85	Joback Method
dvisc	0.0000830	Paxs	668.17	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=U381915&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381915&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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