

# Diglycolic acid, 4-chlorobenzyl isobutyl ester

<b>Inchi:</b>	InChI=1S/C15H19ClO5/c1-11(2)7-20-14(17)9-19-10-15(18)21-8-12-3-5-13(16)6-4-12/h3-
<b>InchiKey:</b>	GNXNJXFDZWEWEX-UHFFFAOYSA-N
<b>Formula:</b>	C15H19ClO5
<b>SMILES:</b>	CC(C)COC(=O)COCC(=O)OCc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	314.76

## Physical Properties

Property code	Value	Unit	Source
gf	-409.01	kJ/mol	Joback Method
hf	-770.71	kJ/mol	Joback Method
hfus	35.69	kJ/mol	Joback Method
hvap	76.64	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.599		Crippen Method
mvol	231.440	ml/mol	McGowan Method
pc	1896.95	kPa	Joback Method
rmpol	2779.00		NIST Webbook
rmpol	2779.00		NIST Webbook
tb	786.25	K	Joback Method
tc	995.37	K	Joback Method
tf	479.22	K	Joback Method
vc	0.876	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.42	J/molxK	786.25	Joback Method
cpg	660.93	J/molxK	821.10	Joback Method
cpg	673.40	J/molxK	855.96	Joback Method
cpg	684.84	J/molxK	890.81	Joback Method
cpg	695.24	J/molxK	925.66	Joback Method
cpg	704.61	J/molxK	960.51	Joback Method
cpg	712.94	J/molxK	995.37	Joback Method
dvisc	0.0006317	Paxs	479.22	Joback Method

dvisc	0.0003615	Paxs	530.39	Joback Method
dvisc	0.0002282	Paxs	581.56	Joback Method
dvisc	0.0001552	Paxs	632.74	Joback Method
dvisc	0.0001118	Paxs	683.91	Joback Method
dvisc	0.0000843	Paxs	735.08	Joback Method
dvisc	0.0000660	Paxs	786.25	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=U382255&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382255&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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