

# Diethylmalonic acid, 3-chlorobenzyl propyl ester

<b>Inchi:</b>	InChI=1S/C17H23ClO4/c1-4-10-21-15(19)17(5-2,6-3)16(20)22-12-13-8-7-9-14(18)11-13/
<b>InchiKey:</b>	IAACNAUBBBRQRJ-UHFFFAOYSA-N
<b>Formula:</b>	C17H23ClO4
<b>SMILES:</b>	CCCOC(=O)C(CC)(CC)C(=O)OCc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	326.81

## Physical Properties

Property code	Value	Unit	Source
gf	-281.89	kJ/mol	Joback Method
hf	-683.24	kJ/mol	Joback Method
hfus	35.79	kJ/mol	Joback Method
hvap	77.78	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.143		Crippen Method
mvol	253.750	ml/mol	McGowan Method
pc	1652.46	kPa	Joback Method
rinpol	2074.00		NIST Webbook
rinpol	2074.00		NIST Webbook
tb	806.80	K	Joback Method
tc	1018.69	K	Joback Method
tf	496.95	K	Joback Method
vc	0.966	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	732.92	J/molxK	806.80	Joback Method
cpg	795.00	J/molxK	983.37	Joback Method
cpg	784.59	J/molxK	948.06	Joback Method
cpg	773.21	J/molxK	912.74	Joback Method
cpg	760.83	J/molxK	877.43	Joback Method
cpg	747.41	J/molxK	842.11	Joback Method
cpg	804.50	J/molxK	1018.69	Joback Method
dvisc	0.0000579	Paxs	806.80	Joback Method

dvisc	0.0000749	Paxs	755.16	Joback Method
dvisc	0.0001006	Paxs	703.52	Joback Method
dvisc	0.0001417	Paxs	651.88	Joback Method
dvisc	0.0002118	Paxs	600.23	Joback Method
dvisc	0.0003412	Paxs	548.59	Joback Method
dvisc	0.0006071	Paxs	496.95	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=U369342&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369342&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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