

# Diethylmalonic acid, monochloride, 3-methylbenzyl ester

<b>Inchi:</b>	InChI=1S/C15H19ClO3/c1-4-15(5-2,13(16)17)14(18)19-10-12-8-6-7-11(3)9-12/h6-9H,4-5
<b>InchiKey:</b>	OBGBKKJGWIPFIC-UHFFFAOYSA-N
<b>Formula:</b>	C15H19ClO3
<b>SMILES:</b>	CCC(CC)(C(=O)Cl)C(=O)OCc1cccc(C)c1
<b>Mol. weight [g/mol]:</b>	282.76

## Physical Properties

Property code	Value	Unit	Source
gf	-193.73	kJ/mol	Joback Method
hf	-509.74	kJ/mol	Joback Method
hfus	29.43	kJ/mol	Joback Method
hvap	70.91	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.610		Crippen Method
mcvol	219.700	ml/mol	McGowan Method
pc	1973.55	kPa	Joback Method
rinpol	1830.00		NIST Webbook
rinpol	1830.00		NIST Webbook
tb	738.62	K	Joback Method
tc	956.98	K	Joback Method
tf	452.18	K	Joback Method
vc	0.836	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.69	J/molxK	738.62	Joback Method
cpg	657.73	J/molxK	920.59	Joback Method
cpg	647.19	J/molxK	884.20	Joback Method
cpg	635.77	J/molxK	847.80	Joback Method
cpg	623.41	J/molxK	811.41	Joback Method
cpg	610.07	J/molxK	775.01	Joback Method
cpg	667.44	J/molxK	956.98	Joback Method
dvisc	0.0001020	Paxs	738.62	Joback Method

dvisc	0.0001317	Paxs	690.88	Joback Method
dvisc	0.0001766	Paxs	643.14	Joback Method
dvisc	0.0002483	Paxs	595.40	Joback Method
dvisc	0.0003703	Paxs	547.66	Joback Method
dvisc	0.0005963	Paxs	499.92	Joback Method
dvisc	0.0010616	Paxs	452.18	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=U369320&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369320&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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