

# Diethylmalonic acid, monochloride, 4-bromo-2-methoxyphenyl ester

<b>Inchi:</b>	InChI=1S/C14H16BrClO4/c1-4-14(5-2,12(16)17)13(18)20-10-7-6-9(15)8-11(10)19-3/h6-8
<b>InchiKey:</b>	QIRIDLNLQMJESS-UHFFFAOYSA-N
<b>Formula:</b>	C14H16BrClO4
<b>SMILES:</b>	CCC(CC)(C(=O)Cl)C(=O)Oc1ccc(Br)cc1OC
<b>Mol. weight [g/mol]:</b>	363.63

## Physical Properties

Property code	Value	Unit	Source
gf	-302.46	kJ/mol	Joback Method
hf	-606.46	kJ/mol	Joback Method
hfus	32.92	kJ/mol	Joback Method
hvap	78.19	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	3.935		Crippen Method
mcvol	228.980	ml/mol	McGowan Method
pc	2229.20	kPa	Joback Method
rinqol	2130.00		NIST Webbook
tb	809.30	K	Joback Method
tc	1039.08	K	Joback Method
tf	535.46	K	Joback Method
vc	0.860	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.29	J/molxK	809.30	Joback Method
cpg	651.00	J/molxK	1000.79	Joback Method
cpg	642.88	J/molxK	962.49	Joback Method
cpg	633.89	J/molxK	924.19	Joback Method
cpg	623.99	J/molxK	885.89	Joback Method
cpg	613.14	J/molxK	847.60	Joback Method
cpg	658.29	J/molxK	1039.08	Joback Method
dvisc	0.0000712	Paxs	809.30	Joback Method
dvisc	0.0000888	Paxs	763.66	Joback Method

dvisc	0.0001140	Paxs	718.02	Joback Method
dvisc	0.0001512	Paxs	672.38	Joback Method
dvisc	0.0002091	Paxs	626.74	Joback Method
dvisc	0.0003043	Paxs	581.10	Joback Method
dvisc	0.0004719	Paxs	535.46	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=U371166&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U371166&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>mccvol:</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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