

# Diethylmalonic acid, monochloride, 5-methoxy-3-methylpentyl ester

<b>Inchi:</b>	InChI=1S/C14H25ClO4/c1-5-14(6-2,12(15)16)13(17)19-10-8-11(3)7-9-18-4/h11H,5-10H2
<b>InchiKey:</b>	MHCZQIUCZJLRRW-UHFFFAOYSA-N
<b>Formula:</b>	C14H25ClO4
<b>SMILES:</b>	CCC(CC)(C(=O)Cl)C(=O)OCCC(C)CCOC
<b>Mol. weight [g/mol]:</b>	292.80

## Physical Properties

Property code	Value	Unit	Source
gf	-412.37	kJ/mol	Joback Method
hf	-851.66	kJ/mol	Joback Method
hfus	30.85	kJ/mol	Joback Method
hvap	67.77	kJ/mol	Joback Method
log10ws	-3.08		Crippen Method
logp	3.164		Crippen Method
mcvol	235.240	ml/mol	McGowan Method
pc	1625.91	kPa	Joback Method
rinpol	1712.00		NIST Webbook
rinpol	1712.00		NIST Webbook
tb	706.06	K	Joback Method
tc	895.93	K	Joback Method
tf	409.20	K	Joback Method
vc	0.899	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.57	J/molxK	706.06	Joback Method
cpg	724.01	J/molxK	864.28	Joback Method
cpg	711.98	J/molxK	832.64	Joback Method
cpg	699.14	J/molxK	800.99	Joback Method
cpg	685.48	J/molxK	769.35	Joback Method
cpg	670.96	J/molxK	737.70	Joback Method
cpg	735.25	J/molxK	895.93	Joback Method
dvisc	0.0000829	Paxs	706.06	Joback Method

dvisc	0.0001120	Paxs	656.58	Joback Method
dvisc	0.0001588	Paxs	607.11	Joback Method
dvisc	0.0002396	Paxs	557.63	Joback Method
dvisc	0.0003917	Paxs	508.15	Joback Method
dvisc	0.0007120	Paxs	458.68	Joback Method
dvisc	0.0014953	Paxs	409.20	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=U370774&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370774&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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