

# Diethylmalonic acid, monochloride, 2-(3,3-dimethyl-2,4-oxacyclopentyl)ethyl ester

**Inchi:** InChI=1S/C14H23ClO5/c1-5-14(6-2,11(15)16)12(17)18-8-7-10-9-19-13(3,4)20-10/h10H,5  
**InchiKey:** KFWXYFZZFVDINY-UHFFFAOYSA-N  
**Formula:** C14H23ClO5  
**SMILES:** CCC(CC)(C(=O)Cl)C(=O)OCCC1COC(C)(C)O1  
**Mol. weight [g/mol]:** 306.78

## Physical Properties

Property code	Value	Unit	Source
gf	-453.82	kJ/mol	Joback Method
hf	-922.78	kJ/mol	Joback Method
hfus	37.85	kJ/mol	Joback Method
hvap	73.57	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.643		Crippen Method
mvol	230.250	ml/mol	McGowan Method
pc	1895.30	kPa	Joback Method
rinpol	1777.00		NIST Webbook
rinpol	1777.00		NIST Webbook
tb	748.83	K	Joback Method
tc	961.30	K	Joback Method
tf	485.67	K	Joback Method
vc	0.868	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	680.13	J/mol×K	748.83	Joback Method
cpg	696.37	J/mol×K	784.24	Joback Method
cpg	711.89	J/mol×K	819.65	Joback Method
cpg	726.81	J/mol×K	855.07	Joback Method
cpg	741.25	J/mol×K	890.48	Joback Method
cpg	755.34	J/mol×K	925.89	Joback Method
cpg	769.19	J/mol×K	961.30	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=U368393&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368393&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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