

# Diethylmalonic acid, monochloride, 2-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C13H14ClNO5/c1-3-13(4-2,11(14)16)12(17)20-10-8-6-5-7-9(10)15(18)19/h5-8
<b>InchiKey:</b>	LDLZUVYBALNKIP-UHFFFAOYSA-N
<b>Formula:</b>	C13H14ClNO5
<b>SMILES:</b>	CCC(CC)(C(=O)Cl)C(=O)Oc1ccccc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	299.71

## Physical Properties

Property code	Value	Unit	Source
gf	-175.02	kJ/mol	Joback Method
hf	-479.22	kJ/mol	Joback Method
hfus	35.61	kJ/mol	Joback Method
hvap	83.05	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.072		Crippen Method
mcvol	208.940	ml/mol	McGowan Method
pc	2386.52	kPa	Joback Method
rinpol	2015.00		NIST Webbook
tb	844.70	K	Joback Method
tc	1088.19	K	Joback Method
tf	573.25	K	Joback Method
vc	0.805	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	584.76	J/molxK	844.70	Joback Method
cpg	595.62	J/molxK	885.28	Joback Method
cpg	605.44	J/molxK	925.86	Joback Method
cpg	614.30	J/molxK	966.44	Joback Method
cpg	622.27	J/molxK	1007.03	Joback Method
cpg	629.41	J/molxK	1047.61	Joback Method
cpg	635.80	J/molxK	1088.19	Joback Method

# Sources

<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=U369864&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369864&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>

# 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>hvac:</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>mccol:</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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