

# Dimethylmalonic acid, ethyl 3-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C13H15NO6/c1-4-19-11(15)13(2,3)12(16)20-10-7-5-6-9(8-10)14(17)18/h5-8H,
<b>InchiKey:</b>	HKGFQZNVWYAOCJ-UHFFFAOYSA-N
<b>Formula:</b>	C13H15NO6
<b>SMILES:</b>	CCOC(=O)C(C)(C)C(=O)Oc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	281.26

## Physical Properties

Property code	Value	Unit	Source
gf	-268.09	kJ/mol	Joback Method
hf	-595.70	kJ/mol	Joback Method
hfus	32.60	kJ/mol	Joback Method
hvap	81.08	kJ/mol	Joback Method
log10ws	-3.15		Crippen Method
logp	2.089		Crippen Method
mvol	202.570	ml/mol	McGowan Method
pc	2433.84	kPa	Joback Method
rinpol	1954.00		NIST Webbook
rinpol	1954.00		NIST Webbook
tb	829.69	K	Joback Method
tc	1068.02	K	Joback Method
tf	565.56	K	Joback Method
vc	0.774	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.03	J/mol×K	829.69	Joback Method
cpg	600.66	J/mol×K	869.41	Joback Method
cpg	611.16	J/mol×K	909.13	Joback Method
cpg	620.58	J/mol×K	948.86	Joback Method
cpg	628.96	J/mol×K	988.58	Joback Method
cpg	636.33	J/mol×K	1028.30	Joback Method
cpg	642.75	J/mol×K	1068.02	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=U363602&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363602&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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