

# Diethylmalonic acid, 2-nitrophenyl propyl ester

<b>Inchi:</b>	InChI=1S/C16H21NO6/c1-4-11-22-14(18)16(5-2,6-3)15(19)23-13-10-8-7-9-12(13)17(20)
<b>InchiKey:</b>	KWNVEKCDHWPJGB-UHFFFAOYSA-N
<b>Formula:</b>	C16H21NO6
<b>SMILES:</b>	CCCOC(=O)C(CC)(CC)C(=O)Oc1ccccc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	323.34

## Physical Properties

Property code	Value	Unit	Source
gf	-242.83	kJ/mol	Joback Method
hf	-657.62	kJ/mol	Joback Method
hfus	40.37	kJ/mol	Joback Method
hvap	87.75	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.260		Crippen Method
mcvol	244.840	ml/mol	McGowan Method
pc	1865.94	kPa	Joback Method
rinsol	2176.00		NIST Webbook
tb	898.33	K	Joback Method
tc	1128.13	K	Joback Method
tf	599.37	K	Joback Method
vc	0.943	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	755.89	J/molxK	898.33	Joback Method
cpg	768.17	J/molxK	936.63	Joback Method
cpg	779.29	J/molxK	974.93	Joback Method
cpg	789.28	J/molxK	1013.23	Joback Method
cpg	798.21	J/molxK	1051.53	Joback Method
cpg	806.12	J/molxK	1089.83	Joback Method
cpg	813.05	J/molxK	1128.13	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U369856&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369856&amp;Units=SI</a>
<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>

# 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>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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