

# Diethylmalonic acid, hexyl 4-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C19H27NO6/c1-4-7-8-9-14-25-17(21)19(5-2,6-3)18(22)26-16-12-10-15(11-13-
<b>InchiKey:</b>	YEEPSSKKYSIXNW-UHFFFAOYSA-N
<b>Formula:</b>	C19H27NO6
<b>SMILES:</b>	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	365.42

## Physical Properties

Property code	Value	Unit	Source
gf	-217.57	kJ/mol	Joback Method
hf	-719.54	kJ/mol	Joback Method
hfus	48.14	kJ/mol	Joback Method
hvap	94.43	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.430		Crippen Method
mvol	287.110	ml/mol	McGowan Method
pc	1475.88	kPa	Joback Method
rinpol	2460.00		NIST Webbook
rinpol	2460.00		NIST Webbook
tb	966.97	K	Joback Method
tc	1194.79	K	Joback Method
tf	633.18	K	Joback Method
vc	1.111	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	929.61	J/mol×K	966.97	Joback Method
cpg	942.31	J/mol×K	1004.94	Joback Method
cpg	953.78	J/mol×K	1042.91	Joback Method
cpg	964.10	J/mol×K	1080.88	Joback Method
cpg	973.31	J/mol×K	1118.85	Joback Method
cpg	981.47	J/mol×K	1156.82	Joback Method
cpg	988.65	J/mol×K	1194.79	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370166&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370166&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>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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