

# Phthalic acid, ethyl 4-nitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C17H15NO6/c1-2-23-16(19)14-5-3-4-6-15(14)17(20)24-11-12-7-9-13(10-8-12)
<b>InchiKey:</b>	ASKBDGBIGRMMAT-UHFFFAOYSA-N
<b>Formula:</b>	C17H15NO6
<b>SMILES:</b>	CCOC(=O)c1ccccc1C(=O)OCc1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	329.30

## Physical Properties

Property code	Value	Unit	Source
gf	-134.47	kJ/mol	Joback Method
hf	-444.45	kJ/mol	Joback Method
hfus	44.02	kJ/mol	Joback Method
hvap	94.22	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	3.128		Crippen Method
mvol	235.170	ml/mol	McGowan Method
pc	2237.64	kPa	Joback Method
rinpol	3037.00		NIST Webbook
rinpol	3037.00		NIST Webbook
tb	956.10	K	Joback Method
tc	1205.77	K	Joback Method
tf	647.16	K	Joback Method
vc	0.901	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.28	J/mol×K	956.10	Joback Method
cpg	714.02	J/mol×K	997.71	Joback Method
cpg	722.38	J/mol×K	1039.32	Joback Method
cpg	729.42	J/mol×K	1080.94	Joback Method
cpg	735.16	J/mol×K	1122.55	Joback Method
cpg	739.63	J/mol×K	1164.16	Joback Method
cpg	742.88	J/mol×K	1205.77	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=U382519&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382519&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>h vap:</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>r in pol:</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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