

# Phthalic acid, isobutyl 4-nitrobenzyl ester

**Inchi:** InChI=1S/C19H19NO6/c1-13(2)11-25-18(21)16-5-3-4-6-17(16)19(22)26-12-14-7-9-15(10)  
**InchiKey:** YRTNMFOGUNBUGA-UHFFFAOYSA-N  
**Formula:** C19H19NO6  
**SMILES:** CC(C)COC(=O)c1ccccc1C(=O)OCc1ccc([N+](=O)[O-])cc1  
**Mol. weight [g/mol]:** 357.36

## Physical Properties

Property code	Value	Unit	Source
gf	-120.07	kJ/mol	Joback Method
hf	-491.01	kJ/mol	Joback Method
hfus	45.68	kJ/mol	Joback Method
hvap	98.28	kJ/mol	Joback Method
log10ws	-5.73		Crippen Method
logp	3.765		Crippen Method
mvol	263.350	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	3245.00		NIST Webbook
rinpol	3245.00		NIST Webbook
tb	1001.42	K	Joback Method
tc	1249.54	K	Joback Method
tf	654.70	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	818.60	J/mol×K	1001.42	Joback Method
cpg	828.45	J/mol×K	1042.77	Joback Method
cpg	836.86	J/mol×K	1084.13	Joback Method
cpg	843.86	J/mol×K	1125.48	Joback Method
cpg	849.51	J/mol×K	1166.83	Joback Method
cpg	853.85	J/mol×K	1208.19	Joback Method
cpg	856.92	J/mol×K	1249.54	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=U382521&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382521&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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rpol:</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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