

# 4-Nitrobenzoic acid, hexyl ester

<b>Other names:</b>	hexyl 4-nitrobenzoate
<b>Inchi:</b>	InChI=1S/C13H17NO4/c1-2-3-4-5-10-18-13(15)11-6-8-12(9-7-11)14(16)17/h6-9H,2-5,10
<b>InchiKey:</b>	OFWOUNKHYXUEPI-UHFFFAOYSA-N
<b>Formula:</b>	C13H17NO4
<b>SMILES:</b>	CCCCCOC(=O)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	251.28
<b>CAS:</b>	6268-24-2

## Physical Properties

Property code	Value	Unit	Source
gf	-37.01	kJ/mol	Joback Method
hf	-342.15	kJ/mol	Joback Method
hfus	37.23	kJ/mol	Joback Method
hvap	73.22	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.332		Crippen Method
mcvol	195.130	ml/mol	McGowan Method
pc	2284.95	kPa	Joback Method
ripol	1907.00		NIST Webbook
ripol	1917.00		NIST Webbook
ripol	1930.00		NIST Webbook
ripol	1939.00		NIST Webbook
ripol	1911.00		NIST Webbook
ripol	1911.00		NIST Webbook
ripol	1900.00		NIST Webbook
ripol	1900.00		NIST Webbook
ripol	2671.00		NIST Webbook
ripol	2671.00		NIST Webbook
ripol	2689.00		NIST Webbook
ripol	2689.00		NIST Webbook
ripol	2719.00		NIST Webbook
ripol	2704.00		NIST Webbook
tb	756.63	K	Joback Method
tc	981.35	K	Joback Method
tf	490.98	K	Joback Method
vc	0.761	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	550.59	J/mol×K	756.63	Joback Method
cpg	564.24	J/mol×K	794.08	Joback Method
cpg	576.89	J/mol×K	831.54	Joback Method
cpg	588.56	J/mol×K	868.99	Joback Method
cpg	599.29	J/mol×K	906.44	Joback Method
cpg	609.11	J/mol×K	943.90	Joback Method
cpg	618.06	J/mol×K	981.35	Joback Method

## Sources

<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=C6268242&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6268242&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>

## 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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