

# Cyclohexanecarboxylic acid, 4-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C13H15NO4/c15-13(10-4-2-1-3-5-10)18-12-8-6-11(7-9-12)14(16)17/h6-10H,1-
<b>InchiKey:</b>	UCQFTYKBLBJWIO-UHFFFAOYSA-N
<b>Formula:</b>	C13H15NO4
<b>SMILES:</b>	O=C(Oc1ccc([N+](=O)[O-])cc1)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	249.26

## Physical Properties

Property code	Value	Unit	Source
gf	-12.56	kJ/mol	Joback Method
hf	-287.83	kJ/mol	Joback Method
hfus	29.06	kJ/mol	Joback Method
hvap	73.65	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	3.080		Crippen Method
mcvol	184.270	ml/mol	McGowan Method
pc	2808.38	kPa	Joback Method
rinpol	2023.00		NIST Webbook
rinpol	2023.00		NIST Webbook
tb	776.18	K	Joback Method
tc	1036.29	K	Joback Method
tf	498.36	K	Joback Method
vc	0.695	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	542.68	J/mol×K	776.18	Joback Method
cpg	558.26	J/mol×K	819.53	Joback Method
cpg	572.31	J/mol×K	862.88	Joback Method
cpg	584.88	J/mol×K	906.24	Joback Method
cpg	596.03	J/mol×K	949.59	Joback Method
cpg	605.80	J/mol×K	992.94	Joback Method
cpg	614.26	J/mol×K	1036.29	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307708&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307708&amp;Units=SI</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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