

# Cyclopentanecarboxamide, N-(3-nitrophenyl)-

<b>Inchi:</b>	InChI=1S/C12H14N2O3/c15-12(9-4-1-2-5-9)13-10-6-3-7-11(8-10)14(16)17/h3,6-9H,1-2,4
<b>InchiKey:</b>	YOMYHKWKZLGNIO-UHFFFAOYSA-N
<b>Formula:</b>	C12H14N2O3
<b>SMILES:</b>	O=C(Nc1cccc([N+](=O)[O-])c1)C1CCCC1
<b>Mol. weight [g/mol]:</b>	234.25

## Physical Properties

Property code	Value	Unit	Source
gf	185.51	kJ/mol	Joback Method
hf	-75.34	kJ/mol	Joback Method
hfus	32.48	kJ/mol	Joback Method
hvap	75.27	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	2.723		Crippen Method
mcvol	174.290	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	2236.00		NIST Webbook
rinpol	2236.00		NIST Webbook
tb	776.78	K	Joback Method
tc	1035.16	K	Joback Method
tf	521.04	K	Joback Method
vc	0.663	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	511.74	J/mol×K	776.78	Joback Method
cpg	525.97	J/mol×K	819.84	Joback Method
cpg	538.88	J/mol×K	862.91	Joback Method
cpg	550.57	J/mol×K	905.97	Joback Method
cpg	561.12	J/mol×K	949.03	Joback Method
cpg	570.65	J/mol×K	992.10	Joback Method
cpg	579.23	J/mol×K	1035.16	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=U307030&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307030&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>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>rinpola:</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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