

# dl-Ornithine

<b>Inchi:</b>	InChI=1S/C5H12N2O2/c6-3-1-2-4(7)5(8)9/h4H,1-3,6-7H2,(H,8,9)
<b>InchiKey:</b>	AHLPHDHHMVZTML-UHFFFAOYSA-N
<b>Formula:</b>	C5H12N2O2
<b>SMILES:</b>	NCCCC(N)C(=O)O
<b>Mol. weight [g/mol]:</b>	132.16
<b>CAS:</b>	616-07-9

## Physical Properties

Property code	Value	Unit	Source
chs	-3029.90 ± 1.80	kJ/mol	NIST Webbook
gf	-144.06	kJ/mol	Joback Method
hf	-349.04	kJ/mol	Joback Method
hfus	21.26	kJ/mol	Joback Method
hvap	71.04	kJ/mol	Joback Method
log10ws	5.40e-03		Crippen Method
logp	-0.863		Crippen Method
mcvol	108.710	ml/mol	McGowan Method
pc	4952.36	kPa	Joback Method
ss	193.30	J/molxK	NIST Webbook
tb	604.47	K	Joback Method
tc	800.67	K	Joback Method
tf	408.38	K	Joback Method
vc	0.393	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.48	J/molxK	604.47	Joback Method
cpg	290.03	J/molxK	637.17	Joback Method
cpg	298.13	J/molxK	669.87	Joback Method
cpg	305.78	J/molxK	702.57	Joback Method
cpg	313.00	J/molxK	735.27	Joback Method
cpg	319.81	J/molxK	767.97	Joback Method
cpg	326.21	J/molxK	800.67	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=C616079&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C616079&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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>ss:</b>	Solid phase molar entropy at standard conditions
<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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