

# Cycluron

**Other names:**

1,1-Dimethyl-3-cyclooctylurea  
3-Cyclooctyl-1,1-dimethylharnstoff  
3-Cyclooctyl-1,1-dimethylurea  
Cyclouron  
HS 61  
N'-Cyclooctyl-N,N-dimethylurea  
N-Cyclooctyl-N',N'-dimethylurea  
OMU  
Urea, 3-cyclooctyl-1,1-dimethyl-  
Urea, N'-cyclooctyl-N,N-dimethyl-

**Inchi:** InChI=1S/C11H22N2O/c1-13(2)11(14)12-10-8-6-4-3-5-7-9-10/h10H,3-9H2,1-2H3,(H,12,1**InchiKey:** DQZCVNGCTZLGAQ-UHFFFAOYSA-N**Formula:** C11H22N2O**SMILES:** CN(C)C(=O)NC1CCCCCCC1**Mol. weight [g/mol]:** 198.31**CAS:** 2163-69-1

## Physical Properties

Property code	Value	Unit	Source
gf	113.24	kJ/mol	Joback Method
hf	-219.95	kJ/mol	Joback Method
hfus	21.60	kJ/mol	Joback Method
hvap	56.08	kJ/mol	Joback Method
log10ws	-2.22		Estimated Solubility Method
log10ws	-2.36		Aqueous Solubility Prediction Method
logp	2.370		Crippen Method
mvol	176.520	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
tb	595.65	K	Joback Method
tc	811.47	K	Joback Method
tf	349.13	K	Joback Method
vc	0.627	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.71	J/molxK	595.65	Joback Method
cpg	494.59	J/molxK	631.62	Joback Method
cpg	514.19	J/molxK	667.59	Joback Method
cpg	532.52	J/molxK	703.56	Joback Method
cpg	549.62	J/molxK	739.53	Joback Method
cpg	565.51	J/molxK	775.50	Joback Method
cpg	580.23	J/molxK	811.47	Joback Method

## Sources

<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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=C2163691&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2163691&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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