

# N,N'-Dicyclohexyloxamide

<b>Inchi:</b>	InChI=1S/C14H24N2O2/c17-13(15-11-7-3-1-4-8-11)14(18)16-12-9-5-2-6-10-12/h11-12H
<b>InchiKey:</b>	BFCPRIFJUHFAAD-UHFFFAOYSA-N
<b>Formula:</b>	C14H24N2O2
<b>SMILES:</b>	O=C(NC1CCCCC1)C(=O)NC1CCCCC1
<b>Mol. weight [g/mol]:</b>	252.35
<b>CAS:</b>	3299-64-7

## Physical Properties

Property code	Value	Unit	Source
gf	36.84	kJ/mol	Joback Method
hf	-341.87	kJ/mol	Joback Method
hfus	29.08	kJ/mol	Joback Method
hvap	73.98	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	1.884		Crippen Method
mcvol	209.500	ml/mol	McGowan Method
pc	2500.00	kPa	Joback Method
tb	766.90	K	Joback Method
tc	999.83	K	Joback Method
tf	467.48	K	Joback Method
vc	0.767	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.04	J/mol×K	766.90	Joback Method
cpg	690.24	J/mol×K	805.72	Joback Method
cpg	707.85	J/mol×K	844.54	Joback Method
cpg	723.92	J/mol×K	883.36	Joback Method
cpg	738.51	J/mol×K	922.18	Joback Method
cpg	751.69	J/mol×K	961.01	Joback Method
cpg	763.52	J/mol×K	999.83	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=C3299647&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3299647&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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