

# Urea, 1,3-bis(2-chlorocyclohexyl)-

<b>Inchi:</b>	InChI=1S/C13H22Cl2N2O/c14-9-5-1-3-7-11(9)16-13(18)17-12-8-4-2-6-10(12)15/h9-12H,
<b>InchiKey:</b>	HEBOXYNUDXBKBC-UHFFFAOYSA-N
<b>Formula:</b>	C13H22Cl2N2O
<b>SMILES:</b>	O=C(NC1CCCCC1Cl)NC1CCCCC1Cl
<b>Mol. weight [g/mol]:</b>	293.23

## Physical Properties

Property code	Value	Unit	Source
gf	118.06	kJ/mol	Joback Method
hf	-280.81	kJ/mol	Joback Method
hfus	35.43	kJ/mol	Joback Method
hvap	73.16	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	3.386		Crippen Method
mvol	218.320	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
tb	755.67	K	Joback Method
tc	992.67	K	Joback Method
tf	457.64	K	Joback Method
vc	0.801	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.54	J/mol×K	755.67	Joback Method
cpg	677.88	J/mol×K	795.17	Joback Method
cpg	695.57	J/mol×K	834.67	Joback Method
cpg	711.65	J/mol×K	874.17	Joback Method
cpg	726.19	J/mol×K	913.67	Joback Method
cpg	739.23	J/mol×K	953.17	Joback Method
cpg	750.82	J/mol×K	992.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006848&amp;Units=SI&amp;Mask=3FFF">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006848&amp;Units=SI&amp;Mask=3FFF</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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