

# L-Homoserine lactone, N,N-dimethyl-

<b>Inchi:</b>	InChI=1S/C6H11NO2/c1-7(2)5-3-4-9-6(5)8/h5H,3-4H2,1-2H3
<b>InchiKey:</b>	GUWCRVWVWAMIDFQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H11NO2
<b>SMILES:</b>	CN(C)C1CCOC1=O
<b>Mol. weight [g/mol]:</b>	129.16

## Physical Properties

Property code	Value	Unit	Source
gf	-61.74	kJ/mol	Joback Method
hf	-308.86	kJ/mol	Joback Method
hfus	15.74	kJ/mol	Joback Method
hvap	40.01	kJ/mol	Joback Method
log10ws	0.23		Crippen Method
logp	-0.136		Crippen Method
mcvol	101.960	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
rinpol	1149.00		NIST Webbook
rinpol	1149.00		NIST Webbook
tb	459.17	K	Joback Method
tc	673.15	K	Joback Method
tf	295.54	K	Joback Method
vc	0.358	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	223.67	J/molxK	459.17	Joback Method
cpg	237.83	J/molxK	494.83	Joback Method
cpg	251.33	J/molxK	530.50	Joback Method
cpg	264.16	J/molxK	566.16	Joback Method
cpg	276.34	J/molxK	601.83	Joback Method
cpg	287.86	J/molxK	637.49	Joback Method
cpg	298.73	J/molxK	673.15	Joback Method

# Sources

<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=U374457&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374457&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>h vap:</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>r in pol:</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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