

# Glutarimide, 3-[[[(2-oxocyclohexyl)carbonyl]methyl]-

Inchi: InChI=1S/C13H17NO4/c15-10-4-2-1-3-9(10)11(16)5-8-6-12(17)14-13(18)7-8/h8,15H,1-7

InchiKey: RZVUWGQKVNOMFT-UHFFFAOYSA-N

Formula: C13H17NO4

SMILES: O=C1CC(CC(=O)C2=C(O)CCCC2)CC(=O)N1

Mol. weight [g/mol]: 251.28

CAS: 1148-01-2

## Physical Properties

Property code	Value	Unit	Source
gf	-297.32	kJ/mol	Joback Method
hf	-650.23	kJ/mol	Joback Method
hfus	26.77	kJ/mol	Joback Method
hvap	85.99	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	1.384		Crippen Method
mcvol	188.570	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
tb	879.97	K	Joback Method
tc	1122.29	K	Joback Method
tf	633.29	K	Joback Method
vc	0.693	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	619.34	J/molxK	879.97	Joback Method
cpg	632.48	J/molxK	920.36	Joback Method
cpg	643.89	J/molxK	960.74	Joback Method
cpg	653.54	J/molxK	1001.13	Joback Method
cpg	661.37	J/molxK	1041.52	Joback Method
cpg	667.34	J/molxK	1081.91	Joback Method
cpg	671.41	J/molxK	1122.29	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=C1148012&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1148012&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>mccvol:</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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