

# Bemegride

<b>Other names:</b>	2,6-Piperidinedione, 4-ethyl-4-methyl-Glutarimide, 3-ethyl-3-methyl-«beta»-Ethyl-«beta»-methylglutarimide «beta»-Methyl-«beta»-ethylglutarimide Agipnon Ahyppon Antibarbi Bemegrid Etimid Eukraton Malysol Megibal Megimid Megimide Methetharimide Mikedimide NP 13 Zentraleptin 3-Ethyl-3-Methylglutarimide 3-Methyl-3-ethylglutarimide Bemigride Benegrid 2,6-Dioxo-4-methyl-4-ethylpiperidine 4-Ethyl-4-methyl-2,6-dioxopiperidine 4-Ethyl-4-methyl-2,6-piperidinedione 4-Methyl-4-ethyl-2,6-dioxopiperidine NSC 58187
<b>Inchi:</b>	InChI=1S/C8H13NO2/c1-3-8(2)4-6(10)9-7(11)5-8/h3-5H2,1-2H3,(H,9,10,11)
<b>InchiKey:</b>	ORRZGUBHBVWWOP-UHFFFAOYSA-N
<b>Formula:</b>	C8H13NO2
<b>SMILES:</b>	CCC1(C)CC(=O)NC(=O)C1
<b>Mol. weight [g/mol]:</b>	155.19
<b>CAS:</b>	64-65-3

## Physical Properties

Property code	Value	Unit	Source
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gf	-122.03		kJ/mol	Joback Method
hf	-376.48		kJ/mol	Joback Method
hfus	10.62		kJ/mol	Joback Method
hvap	47.93		kJ/mol	Joback Method
log10ws	-1.56			Crippen Method
logp	0.839			Crippen Method
mcvol	125.840		ml/mol	McGowan Method
pc	3713.49		kPa	Joback Method
rinpol	1314.00			NIST Webbook
rinpol	1309.00			NIST Webbook
rinpol	1314.00			NIST Webbook
tb	586.42		K	Joback Method
tc	837.44		K	Joback Method
tf	452.67		K	Joback Method
vc	0.466		m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	318.20	J/mol×K	586.42	Joback Method
cpg	334.77	J/mol×K	628.26	Joback Method
cpg	350.54	J/mol×K	670.09	Joback Method
cpg	365.59	J/mol×K	711.93	Joback Method
cpg	379.96	J/mol×K	753.77	Joback Method
cpg	393.71	J/mol×K	795.60	Joback Method
cpg	406.90	J/mol×K	837.44	Joback Method

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C64653&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

# 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>rinpola:</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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