

# Glycine, N,N-dimethyl-, ethyl ester

<b>Other names:</b>	N,N-Dimethylglycine ethyl ester Ethyl N,N-dimethylaminoacetate Ethyl (dimethylamino)acetate Ethyl N,N-dimethylglycinate
<b>Inchi:</b>	InChI=1S/C6H13NO2/c1-4-9-6(8)5-7(2)3/h4-5H2,1-3H3
<b>InchiKey:</b>	BGCNBOFPABQGNG-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NO2
<b>SMILES:</b>	CCOC(=O)CN(C)C
<b>Mol. weight [g/mol]:</b>	131.17
<b>CAS:</b>	33229-89-9

## Physical Properties

Property code	Value	Unit	Source
chl	-3764.20 ± 0.30	kJ/mol	NIST Webbook
gf	-123.50	kJ/mol	Joback Method
hf	-407.10 ± 0.96	kJ/mol	NIST Webbook
hfl	-454.72 ± 0.42	kJ/mol	NIST Webbook
hfus	17.10	kJ/mol	Joback Method
hvap	47.60 ± 0.80	kJ/mol	NIST Webbook
log10ws	0.23		Crippen Method
logp	0.111		Crippen Method
mcvol	112.820	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
tb	423.70	K	NIST Webbook
tc	601.33	K	Joback Method
tf	262.01	K	Joback Method
vc	0.413	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.47	J/mol×K	572.01	Joback Method
cpg	228.57	J/mol×K	425.41	Joback Method
cpg	239.56	J/mol×K	454.73	Joback Method

cpg	250.14	J/mol×K	484.05	Joback Method
cpg	260.32	J/mol×K	513.37	Joback Method
cpg	270.09	J/mol×K	542.69	Joback Method
cpg	288.45	J/mol×K	601.33	Joback Method
cpl	244.20	J/mol×K	298.15	NIST Webbook

## 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=C33229899&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33229899&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>chl:</b>	Standard liquid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cpl:</b>	Liquid phase heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfl:</b>	Liquid phase 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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