

# Glycine, N-methyl-n-butoxycarbonyl-, butyl ester

Inchi:	InChI=1S/C12H23NO4/c1-4-6-8-16-11(14)10-13(3)12(15)17-9-7-5-2/h4-10H2,1-3H3
InchiKey:	PLZCWEIGOUYZAP-UHFFFAOYSA-N
Formula:	C12H23NO4
SMILES:	CCCCOC(=O)CN(C)C(=O)OCCCC
Mol. weight [g/mol]:	245.32

## Physical Properties

Property code	Value	Unit	Source
gf	-306.90	kJ/mol	Joback Method
hf	-713.08	kJ/mol	Joback Method
hfus	35.43	kJ/mol	Joback Method
hvap	62.66	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	2.198		Crippen Method
mvol	204.800	ml/mol	McGowan Method
pc	1923.67	kPa	Joback Method
rinpol	1594.00		NIST Webbook
rinpol	1594.00		NIST Webbook
tb	638.98	K	Joback Method
tc	815.13	K	Joback Method
tf	401.79	K	Joback Method
vc	0.773	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	554.43	J/molxK	638.98	Joback Method
cpg	569.34	J/molxK	668.34	Joback Method
cpg	583.57	J/molxK	697.70	Joback Method
cpg	597.11	J/molxK	727.05	Joback Method
cpg	609.97	J/molxK	756.41	Joback Method
cpg	622.17	J/molxK	785.77	Joback Method
cpg	633.70	J/molxK	815.13	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U320648&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320648&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>
<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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/25-644-9/Glycine-N-methyl-n-butoxycarbonyl-butyl-ester.pdf>

Generated by Cheméo on 2024-04-26 19:17:44.536793471 +0000 UTC m=+16448313.457370787.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.