

# Carbobenzyloxyglycine methyl ester

**Other names:**

Carbobenzyloxyglycine methyl ester  
Glycine, N-[(phenylmethoxy)carbonyl]-, methyl ester  
methyl N-benzyloxycarbonylglycinate

**Inchi:** InChI=1S/C11H13NO4/c1-15-10(13)7-12-11(14)16-8-9-5-3-2-4-6-9/h2-6H,7-8H2,1H3,(H,**InchiKey:** DZYBBBYFLOPVOL-UHFFFAOYSA-N**Formula:** C11H13NO4**SMILES:** COC(=O)CNC(=O)OCc1ccccc1**Mol. weight [g/mol]:** 223.23**CAS:** 1212-53-9

## Physical Properties

Property code	Value	Unit	Source
gf	-224.30	kJ/mol	Joback Method
hf	-469.97	kJ/mol	Joback Method
hfus	28.96	kJ/mol	Joback Method
hvap	67.10	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	1.086		Crippen Method
mcvol	166.950	ml/mol	McGowan Method
pc	2960.12	kPa	Joback Method
tb	680.51	K	Joback Method
tc	894.21	K	Joback Method
tf	437.13	K	Joback Method
vc	0.626	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.17	J/molxK	680.51	Joback Method
cpg	449.74	J/molxK	716.13	Joback Method
cpg	461.47	J/molxK	751.74	Joback Method
cpg	472.35	J/molxK	787.36	Joback Method
cpg	482.40	J/molxK	822.98	Joback Method
cpg	491.62	J/molxK	858.60	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	430.00 ± 1.00	K	0.01	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1212539&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1212539&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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