

# Glycine, N-methyl-N-ethoxycarbonyl-, dodecyl ester

Inchi:	InChI=1S/C18H35NO4/c1-4-6-7-8-9-10-11-12-13-14-15-23-17(20)16-19(3)18(21)22-5-2/
InchiKey:	HNYRVLZCQVCGIY-UHFFFAOYSA-N
Formula:	C18H35NO4
SMILES:	CCCCCCCCCCCCOC(=O)CN(C)C(=O)OCC
Mol. weight [g/mol]:	329.47

## Physical Properties

Property code	Value	Unit	Source
gf	-256.38	kJ/mol	Joback Method
hf	-836.92	kJ/mol	Joback Method
hfus	50.97	kJ/mol	Joback Method
hvap	76.02	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.539		Crippen Method
mcvol	289.340	ml/mol	McGowan Method
pc	1225.98	kPa	Joback Method
rinpol	2109.00		NIST Webbook
rinpol	2109.00		NIST Webbook
tb	776.26	K	Joback Method
tc	955.77	K	Joback Method
tf	469.41	K	Joback Method
vc	1.109	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.02	J/mol×K	776.26	Joback Method
cpg	909.60	J/mol×K	806.18	Joback Method
cpg	926.22	J/mol×K	836.10	Joback Method
cpg	941.90	J/mol×K	866.02	Joback Method
cpg	956.65	J/mol×K	895.93	Joback Method
cpg	970.50	J/mol×K	925.85	Joback Method
cpg	983.46	J/mol×K	955.77	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=U320682&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320682&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>
<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>h vap:</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>r in pol:</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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