

# Glycine, N-methyl-n-propoxycarbonyl-, octadecyl ester

<b>Inchi:</b>	InChI=1S/C25H49NO4/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-22-29-24(27)23
<b>InchiKey:</b>	FQVIUPHPLSSNMY-UHFFFAOYSA-N
<b>Formula:</b>	C25H49NO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)OCCC
<b>Mol. weight [g/mol]:</b>	427.66

## Physical Properties

Property code	Value	Unit	Source
gf	-197.44	kJ/mol	Joback Method
hf	-981.40	kJ/mol	Joback Method
hfus	69.10	kJ/mol	Joback Method
hvap	91.60	kJ/mol	Joback Method
log10ws	-7.56		Crippen Method
logp	7.269		Crippen Method
mvol	387.970	ml/mol	McGowan Method
pc	803.42	kPa	Joback Method
rinpol	2735.00		NIST Webbook
rinpol	2735.00		NIST Webbook
tb	936.42	K	Joback Method
tc	1152.27	K	Joback Method
tf	548.30	K	Joback Method
vc	1.502	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1326.02	J/molxK	936.42	Joback Method
cpg	1347.09	J/molxK	972.40	Joback Method
cpg	1366.56	J/molxK	1008.37	Joback Method
cpg	1384.49	J/molxK	1044.35	Joback Method
cpg	1400.93	J/molxK	1080.32	Joback Method
cpg	1415.94	J/molxK	1116.30	Joback Method
cpg	1429.57	J/molxK	1152.27	Joback Method

# Sources

<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=U320635&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U320635&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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