

# Glycine, 2-cyclohexyl-N-decyloxycarbonyl-, decyl ester

<b>Inchi:</b>	InChI=1S/C29H55NO4/c1-3-5-7-9-11-13-15-20-24-33-28(31)27(26-22-18-17-19-23-26)30
<b>InchiKey:</b>	RNCGJFLTBNWQD-UHFFFAOYSA-N
<b>Formula:</b>	C29H55NO4
<b>SMILES:</b>	CCCCCCCCCOC(=O)NC(C(=O)OCCCCCCCCC)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	481.75

## Physical Properties

Property code	Value	Unit	Source
gf	-163.14	kJ/mol	Joback Method
hf	-1028.98	kJ/mol	Joback Method
hfus	69.85	kJ/mol	Joback Method
hvap	104.94	kJ/mol	Joback Method
log10ws	-9.62		Crippen Method
logp	8.486		Crippen Method
mvol	433.470	ml/mol	McGowan Method
pc	736.82	kPa	Joback Method
rinpol	3290.00		NIST Webbook
rinpol	3290.00		NIST Webbook
tb	1084.78	K	Joback Method
tc	1345.76	K	Joback Method
tf	605.95	K	Joback Method
vc	1.669	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1598.94	J/molxK	1084.78	Joback Method
cpg	1618.59	J/molxK	1128.28	Joback Method
cpg	1635.73	J/molxK	1171.77	Joback Method
cpg	1650.48	J/molxK	1215.27	Joback Method
cpg	1662.94	J/molxK	1258.77	Joback Method
cpg	1673.22	J/molxK	1302.26	Joback Method
cpg	1681.45	J/molxK	1345.76	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=U383172&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U383172&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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