

# L-Norvaline, N-(but-3-en-1-yloxycarbonyl)-, but-3-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C14H23NO4/c1-4-7-10-18-13(16)12(9-6-3)15-14(17)19-11-8-5-2/h4-5,12H,1-2
<b>InchiKey:</b>	LVNAMIAGQDBPCA-GFCCVEGCSA-N
<b>Formula:</b>	C14H23NO4
<b>SMILES:</b>	<chem>C=CCCOC(=O)NC(CCC)C(=O)OCCC=C</chem>
<b>Mol. weight [g/mol]:</b>	269.34

## Physical Properties

Property code	Value	Unit	Source
gf	-138.21	kJ/mol	Joback Method
hf	-522.84	kJ/mol	Joback Method
hfus	36.61	kJ/mol	Joback Method
hvap	69.78	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.577		Crippen Method
mvol	224.380	ml/mol	McGowan Method
pc	1787.88	kPa	Joback Method
rinpol	1785.00		NIST Webbook
rinpol	1785.00		NIST Webbook
tb	715.39	K	Joback Method
tc	901.02	K	Joback Method
tf	426.00	K	Joback Method
vc	0.859	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.60	J/molxK	715.39	Joback Method
cpg	647.08	J/molxK	746.33	Joback Method
cpg	660.76	J/molxK	777.27	Joback Method
cpg	673.66	J/molxK	808.21	Joback Method
cpg	685.80	J/molxK	839.15	Joback Method
cpg	697.18	J/molxK	870.08	Joback Method
cpg	707.82	J/molxK	901.02	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=U392875&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392875&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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