

# L-Norvaline, N-((1R)-(-)-menthyloxycarbonyl)-, pentyl ester

**Inchi:** InChI=1S/C21H39NO4/c1-6-8-9-13-25-20(23)18(10-7-2)22-21(24)26-19-14-16(5)11-12-1  
**InchiKey:** RQBNNBUAAFMKJV-UHFFFAOYSA-N  
**Formula:** C21H39NO4  
**SMILES:** CCCCCOC(=O)C(CCC)N=C(O)OC1CC(C)CCC1C(C)C  
**Mol. weight [g/mol]:** 369.54

## Physical Properties

Property code	Value	Unit	Source
hf	-930.51	kJ/mol	Joback Method
hvap	93.01	kJ/mol	Joback Method
log10ws	-5.43		Crippen Method
logp	5.280		Crippen Method
mcvol	320.750	ml/mol	McGowan Method
pc	1069.36	kPa	Joback Method
rinpol	2358.00		NIST Webbook
rinpol	2358.00		NIST Webbook
tb	956.66	K	Joback Method
tc	1171.60	K	Joback Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U392878&Units=SI>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** 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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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