

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

**Inchi:** InChI=1S/C26H47NO4/c1-8-9-22(25(28)30-23-14-18(6)10-12-20(23)16(2)3)27-26(29)31-24  
**InchiKey:** FIZKQYDEMZRFCG-UHFFFAOYSA-N  
**Formula:** C26H47NO4  
**SMILES:** CCCC(N=C(O)OC1CC(C)CCC1C(C)C)C(=O)OC1CC(C)CCC1C(C)C  
**Mol. weight [g/mol]:** 437.66

## Physical Properties

| Property code | Value    | Unit   | Source         |
|---------------|----------|--------|----------------|
| hf            | -1025.35 | kJ/mol | Joback Method  |
| hvap          | 103.57   | kJ/mol | Joback Method  |
| log10ws       | -6.81    |        | Crippen Method |
| logp          | 6.550    |        | Crippen Method |
| mcvol         | 380.340  | ml/mol | McGowan Method |
| pc            | 869.65   | kPa    | Joback Method  |
| rinpol        | 2745.00  |        | NIST Webbook   |
| rinpol        | 2745.00  |        | NIST Webbook   |
| tb            | 1080.83  | K      | Joback Method  |
| tc            | 1323.84  | K      | Joback Method  |

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U392886&Units=SI>  
**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>

## 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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