

# D-Norval, N-ethoxycarbonyl, (S)-1-phenylethylamide

**Inchi:** InChI=1S/C16H24N2O3/c1-4-9-14(18-16(20)21-5-2)15(19)17-12(3)13-10-7-6-8-11-13/h6  
**InchiKey:** ZNDAJFRHIWRDFF-GXTWGEPZSA-N  
**Formula:** C16H24N2O3  
**SMILES:** CCCC(NC(=O)OCC)C(=O)NC(C)c1ccccc1  
**Mol. weight [g/mol]:** 292.37

## Physical Properties

Property code	Value	Unit	Source
gf	7.31	kJ/mol	Joback Method
hf	-398.04	kJ/mol	Joback Method
hfus	38.77	kJ/mol	Joback Method
hvap	81.48	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	2.779		Crippen Method
mvol	241.510	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
rinpol	2132.00		NIST Webbook
rinpol	2132.00		NIST Webbook
tb	821.78	K	Joback Method
tc	1032.15	K	Joback Method
tf	493.91	K	Joback Method
vc	0.911	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	735.00	J/molxK	821.78	Joback Method
cpg	749.47	J/molxK	856.84	Joback Method
cpg	762.84	J/molxK	891.90	Joback Method
cpg	775.17	J/molxK	926.96	Joback Method
cpg	786.49	J/molxK	962.02	Joback Method
cpg	796.84	J/molxK	997.09	Joback Method
cpg	806.25	J/molxK	1032.15	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<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=R587503&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R587503&amp;Units=SI</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>hvp:</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>rinp:</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

Latest version available from:

<https://www.cheméo.com/cid/65-761-5/D-Norval-N-ethoxycarbonyl-S-1-phenylethylamide.pdf>

Generated by Cheméo on 2024-04-23 17:21:41.974626208 +0000 UTC m=+16182150.895203520.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.