

# dl-Alanyl-dl-norleucine

**Other names:**

N-(dl-Alanyl)norleucine  
«alpha»-Alanyl norleucine (DL)  
Norleucine, alanyl-

**Inchi:** InChI=1S/C9H18N2O3/c1-3-4-5-7(9(13)14)11-8(12)6(2)10/h6-7H,3-5,10H2,1-2H3,(H,11,**InchiKey:** RSIYBPVKRVHPQK-UHFFFAOYSA-N**Formula:** C9H18N2O3**SMILES:** CCCCC(NC(=O)C(C)N)C(=O)O**Mol. weight [g/mol]:** 202.25**CAS:** 19079-66-4

## Physical Properties

Property code	Value	Unit	Source
gf	-218.80	kJ/mol	Joback Method
hf	-529.78	kJ/mol	Joback Method
hfus	29.60	kJ/mol	Joback Method
hvap	82.10	kJ/mol	Joback Method
log10ws	-1.31		Crippen Method
logp	0.093		Crippen Method
mcvol	166.640	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
tb	727.06	K	Joback Method
tc	919.26	K	Joback Method
tf	457.79	K	Joback Method
vc	0.623	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	520.60	J/mol×K	855.19	Joback Method
cpg	528.99	J/mol×K	887.23	Joback Method
cpg	481.06	J/mol×K	727.06	Joback Method
cpg	491.88	J/mol×K	759.09	Joback Method
cpg	502.06	J/mol×K	791.13	Joback Method
cpg	511.63	J/mol×K	823.16	Joback Method

cpg	536.84	J/mol×K	919.26	Joback Method
cps	276.00	J/mol×K	298.00	NIST Webbook
cps	275.70	J/mol×K	298.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19079664&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19079664&amp;Units=SI</a>
<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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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>hvap:</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>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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