

# L-Leucyl-p-nitroanilide

<b>Other names:</b>	L-Leucine-p-nitroanilide L-Leucine-p-nitroaniline L-Leucine-4-nitroanilide Pentanamide, 2-amino-4-methyl-N-(4-nitrophenyl)-, (S)- (S)-2-amino-4-methyl-N-(4-nitrophenyl)valeramide
<b>Inchi:</b>	InChI=1S/C12H17N3O3/c1-8(2)7-11(13)12(16)14-9-3-5-10(6-4-9)15(17)18/h3-6,8,11H,7
<b>InchiKey:</b>	AXZJHDNQDSVIDR-LLVKDONJSA-N
<b>Formula:</b>	C12H17N3O3
<b>SMILES:</b>	CC(C)CC(N)C(=O)Nc1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	251.28
<b>CAS:</b>	4178-93-2

## Physical Properties

Property code	Value	Unit	Source
gf	210.53	kJ/mol	Joback Method
hf	-112.59	kJ/mol	Joback Method
hfus	36.70	kJ/mol	Joback Method
hvap	84.88	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	1.907		Crippen Method
mcvol	195.130	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	833.15	K	Joback Method
tc	1075.73	K	Joback Method
tf	563.40	K	Joback Method
vc	0.740	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	582.22	J/molxK	833.15	Joback Method
cpg	594.42	J/molxK	873.58	Joback Method
cpg	605.56	J/molxK	914.01	Joback Method
cpg	615.71	J/molxK	954.44	Joback Method

cpg	624.93	J/mol×K	994.87	Joback Method
cpg	633.30	J/mol×K	1035.30	Joback Method
cpg	640.87	J/mol×K	1075.73	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4178932&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4178932&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>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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