

# D-Alanine

<b>Other names:</b>	(S)-(+)-alanine (S)-2-aminopropanoic acid .alpha.-alanine Alanine, D- Ba 2776 D(-)-«alpha»-Alanine D-(-)-Alanine D-«alpha»-Alanine L.alpha.-aminopropionic acid L-2-aminopropanoic acid L-alanine
<b>Inchi:</b>	InChI=1S/C3H7NO2/c1-2(4)3(5)6/h2H,4H2,1H3,(H,5,6)/t2-/m0/s1
<b>InchiKey:</b>	QNAYBMKLOCPYGGJ-REOHCLBHSA-N
<b>Formula:</b>	C3H7NO2
<b>SMILES:</b>	CC(N)C(=O)O
<b>Mol. weight [g/mol]:</b>	89.09
<b>CAS:</b>	338-69-2

## Physical Properties

Property code	Value	Unit	Source
chs	-1576.00 ± 3.50	kJ/mol	NIST Webbook
chs	-1619.60 ± 0.54	kJ/mol	NIST Webbook
chs	-1639.90	kJ/mol	NIST Webbook
chs	-1623.00 ± 0.20	kJ/mol	NIST Webbook
gf	-227.35	kJ/mol	Joback Method
hf	-341.55	kJ/mol	Joback Method
hfs	-605.00 ± 3.50	kJ/mol	NIST Webbook
hfs	-561.24 ± 0.59	kJ/mol	NIST Webbook
hfus	10.89	kJ/mol	Joback Method
hvap	55.95	kJ/mol	Joback Method
log10ws	0.28		Crippen Method
logp	-0.582		Crippen Method
mcvol	70.550	ml/mol	McGowan Method
pc	6046.69	kPa	Joback Method
ss	132.20	J/mol×K	NIST Webbook
tb	486.18	K	Joback Method
tc	677.88	K	Joback Method



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## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>ss:</b>	Solid phase molar entropy at standard conditions
<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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