dl-2-Aminobutyric acid

Other names:	(.+)alphaaminobutyric acid (±)-2-aminobutyric acid
	2-Aminobutyric acid
	2-Aminobutyric acid, dl
	Aminobutyric acid,-2-
	Butanoic acid, 2-amino-
	Butanoic acid, 2-amino-, (.+/)-
	Butyric acid, 2-amino-, DL-
	Butyric acid, dl-2-amino-, beta-form
	Butyrine
	DLalphaamino-n-butyric acid
	DLalphaaminobutanoic acid
	DLalphaaminobutyric acid
	DL-2-amino-n-butyric acid
	DL-2-aminobutanoic acid
	NSC 3251
	butanoic acid, 2-amino-, (.+)-
	dl-«alpha»-Amino-n-butyric acid
	«alpha»-Aminobutyric acid
Inchi:	InChI=1S/C4H9NO2/c1-2-3(5)4(6)7/h3H,2,5H2,1H3,(H,6,7)
InchiKey:	QWCKQJZIFLGMSD-UHFFFAOYSA-N
Formula:	C4H9NO2
SMILES:	CCC([NH3+])C(=O)[O-]
Mol. weight [g/mol]:	103.12
CAS:	80-60-4

Physical Properties

Property code	Value	Unit	Source	
ie	8.70	eV	NIST Webbook	
log10ws	0.13		Crippen Method	
logp	-2.243		Crippen Method	
mcvol	84.640	ml/mol	McGowan Method	

Temperature Dependent Properties

cps 160.70 J/mol×K 323.00 NIST Webbook	Property code	Value	Unit	Temperature [K]	Source
	cps	160.70	J/mol×K	323.00	NIST Webbook

Sources

Crippen Method:

Infinite Dilution Binary Diffusion Coefficients of Several r-Amino Acids WWaWebweek Temperature Range from (293.2 to 333.2) K with the Taylor Dispersion of activity, coefficients of glycine, dl-a-alanine and Grupanin Methodic acid in aqueous Some Amino Acids in Aqueous ଅତାସିକ୍ଷାମାନ୍ତ ଆସେକାନାum Chloride at T = Belanway of Charmin Chloride at T = (288.15 to 318.15) K and at Atmospheric pressure amino acids and peptides with Nodecylaring an and peptides with Nodecylaring an acids and peptides with Nodecylaring an acids and peptides with and set and constrained and compare beland and compare and compar Acids:

https://www.chemeo.com/doc/models/crippen_log10ws https://www.doi.org/10.1021/je060149b http://webbook.nist.gov/cgi/cbook.cgi?ID=C80604&Units=SI https://www.doi.org/10.1016/j.fluid.2006.10.012 http://pubs.acs.org/doi/abs/10.1021/ci9903071 http://pubs.acs.org/doi/abs/10.1021/ci9903071 http://www.doi.org/10.1016/j.jct.2007.12.005 https://www.doi.org/10.1016/j.jct.2017.03.025 https://www.doi.org/10.1016/j.jct.2017.03.025 https://www.doi.org/10.1016/j.jct.2016.09.040 https://www.doi.org/10.1016/j.jct.2011.05.012 https://www.doi.org/10.1016/j.jct.2015.04.024 https://www.doi.org/10.1016/j.jct.2013.09.009 https://www.doi.org/10.1016/j.jct.2013.09.009 https://www.doi.org/10.1016/j.jct.2019.03.009 https://www.doi.org/10.1016/j.jct.2019.03.009 https://www.doi.org/10.1021/je100909b http://pubs.acs.org/doi/abs/10.1021/ci990307I https://www.doi.org/10.1021/acs.jced.7b00433 http://link.springer.com/article/10.1007/BF02311772 https://www.doi.org/10.1016/j.jct.2013.11.001 https://www.doi.org/10.1016/j.jct.2018.05.008 https://www.doi.org/10.1021/je3012698 https://www.doi.org/10.1021/je049927v https://www.doi.org/10.1021/je8001464 https://www.doi.org/10.1021/je400415r

Legend

cps:	Solid phase heat capacity
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/I

logp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volume

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