

Glycine

Other names:	2-Aminoacetic acid Acetic acid, amino- Aciport Aminoacetic acid Aminoethanoic acid Amitone Athenon Glicoamin Gly Glycine, free base Glycine, non-medical Glycocol Glycolixir Glycosthene Gyn-hydralin Hampshire glycine NH ₂ CH ₂ COOH NSC 25936 Padil
Inchi:	InChI=1S/C2H5NO2/c3-1-2(4)5/h1,3H2,(H,4,5)
InchiKey:	DHMQDGOQFOQNFH-UHFFFAOYSA-N
Formula:	C2H5NO2
SMILES:	NCC(=O)O
Mol. weight [g/mol]:	75.07
CAS:	56-40-6

Physical Properties

Property code	Value	Unit	Source
affp	886.50	kJ/mol	NIST Webbook
affp	883.10 ± 1.90	kJ/mol	NIST Webbook
affp	886.30 ± 3.10	kJ/mol	NIST Webbook
basg	856.00 ± 3.00	kJ/mol	NIST Webbook
basg	851.10 ± 1.90	kJ/mol	NIST Webbook
basg	855.40 ± 3.60	kJ/mol	NIST Webbook
basg	852.20	kJ/mol	NIST Webbook
ep	2.00 ± 6.00	J/molxK	NIST Webbook
gf	-233.33	kJ/mol	Joback Method

hf	-390.50 ± 4.60	kJ/mol	NIST Webbook
hfs	-527.50 ± 0.50	kJ/mol	NIST Webbook
hfs	-528.61	kJ/mol	NIST Webbook
hfs	-537.20	kJ/mol	NIST Webbook
hfs	-528.52 ± 0.42	kJ/mol	NIST Webbook
hfus	11.82	kJ/mol	Joback Method
hsub	138.10 ± 4.60	kJ/mol	NIST Webbook
hsub	138.10 ± 4.60	kJ/mol	NIST Webbook
hvap	54.11	kJ/mol	Joback Method
ie	9.30	eV	NIST Webbook
ie	9.21 ± 0.05	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
ie	9.25 ± 0.10	eV	NIST Webbook
log10ws	0.52		Aqueous Solubility Prediction Method
logp	-0.970		Crippen Method
mcvol	56.460	ml/mol	McGowan Method
pc	6967.65	kPa	Joback Method
ss	103.51	J/molxK	NIST Webbook
ss	109.20	J/molxK	NIST Webbook
tb	463.74	K	Joback Method
tc	653.39	K	Joback Method
tf	530.49	K	Solubility of alpha-glycine in water with additives at a temperature range of (293.15 - 343.15) K: Experimental data and results of thermodynamic modeling
tf	527.85	K	Artificial neural networks as a supporting tool for compatibility study based on thermogravimetric data
vc	0.202	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	126.92	J/molxK	558.56	Joback Method
cpg	138.19	J/molxK	653.39	Joback Method
cpg	134.62	J/molxK	621.78	Joback Method
cpg	130.87	J/molxK	590.17	Joback Method

Study of thermodynamic properties of aqueous binary mixtures of glycine, L-alanine, and D-alanine with various organic acids and urea

1. Introduction

The study of the thermodynamic properties of aqueous binary mixtures of amino acids with various organic acids and urea is of great importance in the field of physical chemistry and biochemistry. Amino acids are the building blocks of proteins, and their interactions with other molecules in aqueous solutions are crucial for understanding biological processes. The study of the thermodynamic properties of these mixtures can provide valuable insights into the nature of the interactions and the stability of the solutions.

2. Materials and Methods

The study was conducted using a series of experiments designed to measure the thermodynamic properties of the mixtures. The mixtures were prepared by combining known amounts of the amino acids (glycine, L-alanine, and D-alanine) with known amounts of the organic acids (acetic acid, formic acid, and oxalic acid) and urea. The mixtures were then subjected to a series of measurements, including the measurement of the heat of mixing, the heat of solution, and the heat of dilution. The measurements were performed using a series of calorimetric techniques, including the use of a differential scanning calorimeter (DSC) and a microcalorimeter.

3. Results and Discussion

The results of the study show that the thermodynamic properties of the mixtures are strongly dependent on the nature of the organic acid and the concentration of the amino acid. The heat of mixing, the heat of solution, and the heat of dilution all show a strong dependence on the concentration of the amino acid and the nature of the organic acid. The results also show that the mixtures exhibit a strong dependence on the nature of the organic acid, with the heat of mixing, the heat of solution, and the heat of dilution all showing a strong dependence on the nature of the organic acid. The results also show that the mixtures exhibit a strong dependence on the concentration of the amino acid, with the heat of mixing, the heat of solution, and the heat of dilution all showing a strong dependence on the concentration of the amino acid.

4. Conclusion

The study has shown that the thermodynamic properties of the mixtures are strongly dependent on the nature of the organic acid and the concentration of the amino acid. The results also show that the mixtures exhibit a strong dependence on the nature of the organic acid, with the heat of mixing, the heat of solution, and the heat of dilution all showing a strong dependence on the nature of the organic acid. The results also show that the mixtures exhibit a strong dependence on the concentration of the amino acid, with the heat of mixing, the heat of solution, and the heat of dilution all showing a strong dependence on the concentration of the amino acid.

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Joback Method:

Mutual Coexistence Curve

Measurement of Aqueous Biphasic

Systems of Water and Osmotic

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Solubility of glycine in binary system of ethanol + water solvent mixtures: <https://www.doi.org/10.1016/j.fluid.2013.09.013>
Experimental data and thermodynamic properties of Some alpha-Amino Acids: <https://www.doi.org/10.1021/je400415r>

Legend

affp:	Proton affinity
basg:	Gas basicity
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
ep:	Protonation entropy at 298K
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
ss:	Solid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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