

N-Glycylglycine

Other names:	2-(aminoacetamido)acetic acid Diglycine Glycine dipeptide Glycine, N-glycyl- N-(2-aminoacetyl)-2-aminoethanoic acid glycylglycine
Inchi:	InChI=1S/C4H8N2O3/c5-1-3(7)6-2-4(8)9/h1-2,5H2,(H,6,7)(H,8,9)
InchiKey:	YMAWOPBAYDPSLA-UHFFFAOYSA-N
Formula:	C4H8N2O3
SMILES:	NCC(=O)NCC(=O)O
Mol. weight [g/mol]:	132.12
CAS:	556-50-3

Physical Properties

Property code	Value	Unit	Source
basg	882.00	kJ/mol	NIST Webbook
chs	-1969.70 ± 1.30	kJ/mol	NIST Webbook
chs	-1969.70 ± 0.54	kJ/mol	NIST Webbook
chs	-1978.00	kJ/mol	NIST Webbook
chs	-1974.00	kJ/mol	NIST Webbook
gf	-256.02	kJ/mol	Joback Method
hf	-416.02	kJ/mol	Joback Method
hfs	-747.70 ± 1.30	kJ/mol	NIST Webbook
hfs	-747.68 ± 0.63	kJ/mol	NIST Webbook
hfus	23.70	kJ/mol	Joback Method
hvap	71.75	kJ/mol	Joback Method
log10ws	1.01		Crippen Method
logp	-1.854		Crippen Method
mcvol	96.190	ml/mol	McGowan Method
pc	5791.74	kPa	Joback Method
ss	180.30	J/mol×K	NIST Webbook
ss	190.00	J/mol×K	NIST Webbook
tb	613.54	K	Joback Method
tc	808.54	K	Joback Method
tf	431.44	K	Joback Method
vc	0.354	m3/kmol	Joback Method

Viscosities of L-Histidine/L-Glutamic Acid/L-Tryptophan/Glycylglycine+2 M Aqueous Potassium Sulfate Excess Properties of Glycylglycine in Aqueous Potassium Sulfate Solutions at Various Temperatures and Tetra-n-alkylammonium Bromide Common Salt at 298.15 K: (Interaction of Glutamic Glycylglycine) aqueous glucose 0.1 M aqueous sodium acetate (298.15 to 323.15) K: description studies on solute solvent interactions of peptides of glycylglycine aqueous K2SO4 solutions of glycylglycine and tetra-n-alkylammonium bromides on the volumetric properties of glycylglycine and glycylglycine interactions of glycylglycine dipeptides with sodium perchlorate in aqueous solution and lactam, octahydroindole, and urea with zwitterionic glycine peptides: Thermodynamics of the interactions of some amino acids and peptides with Effect of Temperature on the Interactions of Glycyl Dipeptides with Sodium Dodecyl Sulfate in Aqueous Solution on Interactions in Monofluorophenyl Glycylglycine Glycylglycine in 0.5 M NaCl Aqueous Solution Systems: Critical Points and Spectroscopic Properties of Glycylglycine: Interaction of Glycylglycine with Histidine, Valine, Isoleucine, Lysine, Leucine or L-Glutamic Acid or Interactions of some glyoxylic acids and glycine peptides with potassium sodium perchlorate (298.15 to 323.15) K: Desolvation of Glycylglycine in Aqueous Solution at T Calorimetric and Thermodynamic Behavior at 298.15 K of 2-Hydroxybutyrate, Alanine, Glutamic Acid, L-Alanine, L-Glutamine, Glycylglycine, and L-Valine in 0.5 M NaCl Aqueous Solution and Apparent Molar Volumes of Glycylglycine in Ethylpentanoic Acid with Sodium Hexafluoroantimonate Aqueous KCl Solution at 298.15 AND 308.15K:

<https://www.doi.org/10.1007/s10765-011-0996-9>
<https://www.doi.org/10.1021/je100151b>
<https://www.doi.org/10.1016/j.jct.2004.07.006>
<https://www.doi.org/10.1007/s10765-013-1432-0>
<https://www.doi.org/10.1016/j.tca.2011.03.024>
<https://www.doi.org/10.1016/j.tca.2014.07.025>
<http://pubs.acs.org/doi/abs/10.1021/ci9903071>
<https://www.doi.org/10.1016/j.jct.2003.09.008>
<https://www.doi.org/10.1016/j.jct.2012.09.018>
<https://www.doi.org/10.1016/j.tca.2009.02.017>
https://www.chemeo.com/doc/models/crippen_log10ws
<https://www.doi.org/10.1016/j.jct.2013.11.001>
<https://www.doi.org/10.1021/je100068y>
<https://www.doi.org/10.1016/j.tca.2013.11.006>
<https://www.doi.org/10.1021/je800732f>
<https://www.doi.org/10.1016/j.fluid.2014.01.038>
<https://www.doi.org/10.1021/je900199j>
<https://www.doi.org/10.1016/j.jct.2003.09.010>
<https://www.doi.org/10.1021/je9004504>
<https://www.doi.org/10.1021/je900449q>
<https://www.doi.org/10.1021/je300083m>
<https://www.doi.org/10.1016/j.tca.2004.12.008>

Legend

- basg: Gas basicity
- chs: Standard solid enthalpy of combustion
- cpg: Ideal gas heat capacity
- cps: Solid phase heat capacity
- 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
- hvap: Enthalpy of vaporization at standard conditions
- log10ws: Log10 of Water solubility in mol/l
- logp: Octanol/Water partition coefficient
- mcvol: McGowan's characteristic volume
- pc: Critical 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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