

N-(N-Glycylglycyl)glycine

Other names:	Diglycylglycine Glycine, N-(N-glycylglycyl)- Glycylglycylglycine Triglycine
Inchi:	InChI=1S/C6H11N3O4/c7-1-4(10)8-2-5(11)9-3-6(12)13/h1-3,7H2,(H,8,10)(H,9,11)(H,12,13)
InchiKey:	XKUKSGPZAADMRA-UHFFFAOYSA-N
Formula:	C6H11N3O4
SMILES:	NCC(O)=NCC(O)=NCC(=O)O
Mol. weight [g/mol]:	189.17
CAS:	556-33-2

Physical Properties

Property code	Value	Unit	Source
hf	-557.79	kJ/mol	Joback Method
hvap	103.16	kJ/mol	Joback Method
log10ws	1.17		Crippen Method
logp	-1.057		Crippen Method
mcvol	135.920	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
tb	892.74	K	Joback Method
tc	1098.97	K	Joback Method

Sources

Densities of aqueous solutions containing model compounds of amino acids and peptides at the temperature of some amino acids and peptides with interaction of some hydrophobic amino acids, peptides, and protein with bromide, 3-chloro-1,2-propanediol and 3-chloro-1-propanol: Biophysical studies. Partial molar volumes, expansibilities and compressibilities of glyglyglycine interactions of glucose and fructose and glycine peptides with aqueous sodium chloride, potassium chloride and cetyltrimethylammonium bromide at T 17-42.96-15 K: a volumetric approach: Joback Method:

Interactions of tripeptide with glucose in aqueous solutions at various temperatures: A volumetric and ultrasonic study:

<https://www.doi.org/10.1016/j.jct.2006.11.014>
<https://www.doi.org/10.1016/j.jct.2013.11.001>
<https://www.doi.org/10.1016/j.jct.2010.11.015>
https://www.chemeo.com/doc/models/crippen_log10ws
<https://www.doi.org/10.1016/j.tca.2010.11.013>
<https://www.doi.org/10.1016/j.jct.2003.09.010>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C556332&Units=SI>
<http://pubs.acs.org/doi/abs/10.1021/ci9903071>
https://en.wikipedia.org/wiki/Joback_method
<https://www.doi.org/10.1016/j.tca.2010.05.016>

[illegible]

<https://www.doi.org/10.1016/j.ijct.2016.03.032>

<https://www.doi.org/10.1016/j.ijct.2011.12.029>

<https://www.doi.org/10.1016/j.jct.2012.10.018>

<https://www.doi.org/10.1016/j.jct.2012.05.009>

<https://www.doi.org/10.1021/je0600754>

<https://www.doi.org/10.1021/je900849b>

<https://www.doi.org/10.1016/j.tca.2009.02.017>

<http://link.springer.com/article/10.1007/BF02311772>

Legend

hf:	Enthalpy of formation 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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