

L-Leucine, N-glycyl-

Other names:	2-[(2-aminoacetyl)amino]-4-methylpentanoic acid Glycyl-L-leucine Glycyl-L-leucine Glycylleucine Leucine, N-glycyl-, L- N-Glycyl-L-leucine
Inchi:	InChI=1S/C8H16N2O3/c1-5(2)3-6(8(12)13)10-7(11)4-9/h5-6H,3-4,9H2,1-2H3,(H,10,11)(H)
InchiKey:	DKEXFJVMVGETOO-ZCFIWIBFSA-N
Formula:	C8H16N2O3
SMILES:	CC(C)CC(NC(=O)CN)C(=O)O
Mol. weight [g/mol]:	188.22
CAS:	869-19-2

Physical Properties

Property code	Value	Unit	Source
gf	-227.22	kJ/mol	Joback Method
hf	-509.14	kJ/mol	Joback Method
hfus	27.01	kJ/mol	Joback Method
hvap	79.87	kJ/mol	Joback Method
log10ws	-0.43		Aqueous Solubility Prediction Method
logp	-0.439		Crippen Method
mcvol	152.550	ml/mol	McGowan Method
pc	3534.66	kPa	Joback Method
tb	704.18	K	Joback Method
tc	897.64	K	Joback Method
tf	446.52	K	Joback Method
vc	0.567	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.76	J/mol×K	704.18	Joback Method
cpg	439.99	J/mol×K	736.42	Joback Method

cpg	449.61	J/mol×K	768.67	Joback Method
cpg	458.65	J/mol×K	800.91	Joback Method
cpg	467.13	J/mol×K	833.15	Joback Method
cpg	475.06	J/mol×K	865.40	Joback Method
cpg	482.46	J/mol×K	897.64	Joback Method

Sources

Densities and Speeds of Sound of Antibiotic Drug Chloramphenicol with Interaction of antibiotic drug ampicillin with glycine amide at 283.15 K, 318.15 K, 343.15 K and 368.15 K and aqueous sucrose solutions of temperature between the interactions of sarcosine and dipeptides with hexadecyltrimethylammonium bromide and tetradecyltrimethylammonium bromides, partial molar volumes at infinite dilution, side chain partial Joback Method and transfer volumes of dipeptides in sucrose and 2,3-

Effect of temperature on the interactions of glycyldipeptides with sodium perfluorooctanoate in aqueous sodium perfluorooctanoate and spectroscopic study, Volumetric and Conductometric Study:

Effect of Temperature on the Interactions of Glycyl Dipeptides with Sodium Perfluorooctanoate Studies on the interaction of dipeptides with perfluorooctanoate and fluorescence studies on the drug demiphen also in studies of solubility analyzed by volumetric and optical microscopy

Methacrylic amoxicillin solutions: Interactions of some short peptides with the osmolyte trimethylamine N-oxide in aqueous solution:

physico-chemical insights: Volumetric and Conductometric Behavior at T = 298.15 K of Densities, electrical conductances, and spectroscopic properties of glycyldipeptide + ionic liquid ([C12mim]Br) + (ZnCl2)[C12mim]Cl and (ZnCl2)-4-methylpentanoic acid with sodium Hexanoate:

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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