

D-Glutamic acid

Other names:	(2S)-2-aminopentanedioic acid
	(S)-(+)-glutamic acid
	(S)-.alpha.-aminoglutaric acid
	(S)-2-aminopentanedioic acid
	(S)-glutamic acid
	.alpha.-glutamic acid
	1-aminopropane-1,3-dicarboxylic acid
	2-aminoglutaric acid
	L-(+)-glutamic acid
	L-.alpha.-aminoglutaric acid
	L-2-aminopentanedioic acid
	L-glutamic acid
	aciglut
	glusate
	glutacid
	glutamic acid, L-
	glutamicol
	glutamidex
	glutaton
	pentanedioic acid, 2-amino-, (S)-
Inchi:	InChI=1S/C5H9NO4/c6-3(5(9)10)1-2-4(7)8/h3H,1-2,6H2,(H,7,8)(H,9,10)/t3-/m0/s1
InchiKey:	WHUUTDBJXJRKM-KVKHMYHEASA-N
Formula:	C5H9NO4
SMILES:	<chem>N[C@H](CCC(=O)O)C(=O)O</chem>
Mol. weight [g/mol]:	147.13

Physical Properties

Property code	Value	Unit	Source
chs	-2251.32 ± 0.68	kJ/mol	NIST Webbook
chs	-2248.10 ± 1.20	kJ/mol	NIST Webbook
hf	-784.50	kJ/mol	Cheméo Relay (1.0)
hfs	-1009.60	kJ/mol	NIST Webbook
hfs	-1002.47 ± 0.07	kJ/mol	NIST Webbook
hfus	21.75	kJ/mol	Joback Method
hvap	97.99	kJ/mol	Cheméo Relay (1.0)
ie	8.95	eV	Cheméo Relay (1.0)
log10ws	-0.43		Cheméo Relay (1.0)

**Ultrasonic Velocities and Densities of
l-Phenylalanine, l-Leucine, l-Glutamic
Acid, and l-Proline in Aqueous
Solutions at 30 deg C**

<https://www.doi.org/10.1021/je900909s>

<https://www.doi.org/10.1021/je100756z>

<https://www.doi.org/10.1021/acs.jced.6b00367>

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
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
ie:	Ionization energy
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
tf:	Normal melting (fusion) point

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