

# D-glutamic acid

<b>Inchi:</b>	InChI=1S/C5H9NO4/c6-3(5(9)10)1-2-4(7)8/h3H,1-2,6H2,(H,7,8)(H,9,10)/t3-m/s1
<b>InchiKey:</b>	WHUUTDBJXRKMK-VKHYMYHEASA-N
<b>Formula:</b>	C5H9NO4
<b>SMILES:</b>	NC(CCC(=O)O)C(=O)O
<b>Mol. weight [g/mol]:</b>	147.13
<b>CAS:</b>	6893-26-1

## 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
gf	-476.25	kJ/mol	Joback Method
hf	-647.64	kJ/mol	Joback Method
hfs	-1002.47 ± 0.07	kJ/mol	NIST Webbook
hfs	-1009.60	kJ/mol	NIST Webbook
hfus	21.75	kJ/mol	Joback Method
hvap	83.83	kJ/mol	Joback Method
log10ws	0.34		Crippen Method
logp	-0.737		Crippen Method
mcvol	106.170	ml/mol	McGowan Method
pc	5713.21	kPa	Joback Method
ss	191.20	J/molxK	NIST Webbook
tb	677.99	K	Joback Method
tc	864.26	K	Joback Method
tf	435.87	K	Joback Method
vc	0.389	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.71	J/molxK	677.99	Joback Method
cpg	286.05	J/molxK	709.03	Joback Method
cpg	292.03	J/molxK	740.08	Joback Method
cpg	297.65	J/molxK	771.12	Joback Method

cpg	302.93	J/mol×K	802.17	Joback Method
cpg	307.87	J/mol×K	833.21	Joback Method
cpg	312.49	J/mol×K	864.26	Joback Method
cps	172.80	J/mol×K	294.60	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6893261&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6893261&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ss:</b>	Solid phase molar entropy at standard conditions
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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