

N-[N-[N-(N-glycylglycyl)glycyl]glycyl]glycine

Other names:	glycylglycylglycylglycylglycine pentaglycine
Inchi:	InChI=1S/C10H17N5O6/c11-1-6(16)12-2-7(17)13-3-8(18)14-4-9(19)15-5-10(20)21/h1-5,11-15,17-21/t16,17,18,19,20,21
InchiKey:	MXHCPCSDRGLRER-UHFFFAOYSA-N
Formula:	C10H17N5O6
SMILES:	NCC(O)=NCC(O)=NCC(O)=NCC(O)=NCC(=O)O
Mol. weight [g/mol]:	303.27
CAS:	7093-67-6

Physical Properties

Property code	Value	Unit	Source
basg	921.00	kJ/mol	NIST Webbook
hf	-799.95	kJ/mol	Joback Method
hvap	152.21	kJ/mol	Joback Method
log10ws	1.53		Crippen Method
logp	-1.144		Crippen Method
mcvol	215.380	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
tb	1321.74	K	Joback Method
tc	1696.01	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7093676&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Solubilities of Glycine and Its Oligopeptides in Aqueous Solutions:	https://www.doi.org/10.1021/je0600754
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

basg:	Gas basicity
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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