



>>Entry Name: *N*-Glycylglutamine

CAS Registry Number: 13115-71-4

Extra CAS Registry Numbers(s): 172669-64-6

$\text{H}_2\text{NCH}_2\text{CONHCH}(\text{COOH})\text{CH}_2\text{CH}_2\text{CONH}_2$

Molecular Formula: $\text{C}_7\text{H}_{13}\text{N}_3\text{O}_4$

Molecular Weight: 203.197

Accurate Mass: 203.090607

Percentage Composition: C 41.38%; H 6.45%; N 20.68%; O 31.50%

Sigma: G5149

>>Variant: L-form

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Use/Importance: Component of solns for parenteral nutrition

Physical Description: Cryst. + H_2O (EtOH aq.)

Melting Point: Mp 260 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{15} -1.8$ (c, 3.8 in H_2O)

References:

Miller, H.K., *Arch. Biochem. Biophys.*, 1952, **35**, 176, (*synth*)

Shimonishi, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1962, **35**, 1966-1970, (*synth*)

Panneerselvam, K. *et al.*, *Acta Cryst. C*, 1995, **51**, 2718-2720, (*cryst struct*)