>>**Entry Name: *N*-Glycylglutamine**

CAS Registry Number: 13115-71-4
Extra CAS Registry Numbers(s): 172669-64-6
$H_2NCH_2CONHCH(COOH)CH_2CH_2CONH_2$

Molecular Formula: $C_7H_{13}N_3O_4$
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

Molecular Formula: $C_7H_{13}N_3O_4$
Molecular Weight: 203.197
Accurate Mass: 203.090607
Percentage Composition: C 41.38%; H 6.45%; N 20.68%; O 31.50%
Use/Importance: Component of solns for parenteral nutrition
Physical Description: Cryst. + $1H_2O$ (EtOH aq.)
Melting Point: Mp 260 dec.°
Optical Rotation: $[\alpha]_D^{15}$ –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)*