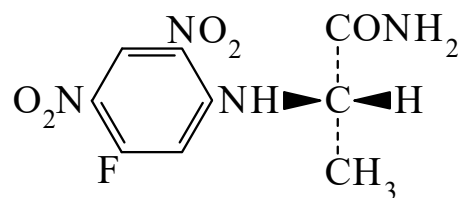




>>Entry Name: 2-[(5-Fluoro-2,4-dinitrophenyl)amino]propanamide, 9CI

Synonym(s): 1-Fluoro-2,4-dinitrophenyl-5-alaninamide. Marfey's reagent



Related CAS Registry Numbers(s): 132679-61-9

Molecular Formula: C₉H₉FN₄O₅

Molecular Weight: 272.192

Accurate Mass: 272.055699

Percentage Composition: C 39.71%; H 3.33%; F 6.98%; N 20.58%; O 29.39%

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 95713-52-3

Molecular Formula: C₉H₉FN₄O₅

Molecular Weight: 272.192

Accurate Mass: 272.055699

Percentage Composition: C 39.71%; H 3.33%; F 6.98%; N 20.58%; O 29.39%

Use/Importance: Derivatisation reagent for sepn. of amino acid enantiomers

Physical Description: Golden-yellow cryst.

Melting Point: Mp 224-226°

Other Data: Analogues derived from other amino acids have been prepd. and used

Aldrich: 36605-6

Fluka: 42095

Sigma: F6009

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1380C, (*nmr*)

Marfey, P., *Carlsberg Res. Commun.*, 1984, **49**, 591, (*synth, use*)

Aberhart, D.J. *et al.*, *Anal. Biochem.*, 1985, **151**, 88, (*use*)

Szokan, G. *et al.*, *J. Chromatogr.*, 1988, **444**, 115, (*use*)

Aberhart, D.J. *et al.*, *Methods Enzymol.*, 1988, **166**, 14, (*use*)

Brueckner, H. *et al.*, *Chromatographia*, 1990, **30**, 621, (*analogues*)