



>>Entry Name: *N*-Methionylglycine, 9CI

MeSCH2CH2CH(NH2)CONHCH2COOH

Molecular Formula: C₇H₁₄N₂O₃S

Molecular Weight: 206.265

Accurate Mass: 206.072513

Percentage Composition: C 40.76%; H 6.84%; N 13.58%; O 23.27%; S 15.55%

pKa Value: p*K*_{a1} 3.16; p*K*_{a2} 8.51 (25°, 0.1*M* NaClO₄)

>>Variant: L-form

CAS Registry Number: 14486-03-4

Molecular Formula: C₇H₁₄N₂O₃S

Molecular Weight: 206.265

Accurate Mass: 206.072513

Percentage Composition: C 40.76%; H 6.84%; N 13.58%; O 23.27%; S 15.55%

Melting Point: Mp 211-212 dec.°

Optical Rotation: [*α*]_D²⁷+83 (c, 1.9 in H₂O)

Sigma: M3129

>>Derivative: Z-Met-Gly-OH

Melting Point: Mp 135-136°

Optical Rotation: [*α*]_D²⁶−16 (c, 2.2 in EtOH)

>>Derivative: Boc-Met-Gly-OH

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 125-126°

Optical Rotation: [*α*]_D²³−12 (c, 1.2 in DMF)

>>Derivative: Z-Met-Gly-OEt

Melting Point: Mp 96-97°

Optical Rotation: [*α*]_D−18.6 (c, 4.5 in EtOH)

References:

Hofmann, K. *et al.*, *J.A.C.S.*, 1957, **79**, 1636, (*synth*)

Badiello, R. *et al.*, *Gazz. Chim. Ital.*, 1964, **94**, 322, (*synth*)

Ondetti, M.A. *et al.*, *J.A.C.S.*, 1972, **94**, 195, (*synth*)

Shioiri, T. *et al.*, *J.A.C.S.*, 1972, **94**, 6203, (*synth*)

Castro, B. *et al.*, *Bull. Soc. Chim. Fr.*, 1973, 3359, (*synth*)