



>>Entry Name: Benzyloxycarbonylmethionine

Synonym(s): *N*-[(Phenylmethoxy)carbonyl]methionine, 9Cl. *N*-Carboxymethionine *N*-benzyl ester, 8Cl. Z-MetOH

PhCH2OOCNHCH(COOH)CH2CH2SMe

Molecular Formula: C₁₃H₁₇NO₄S

Molecular Weight: 283.348

Accurate Mass: 283.087829

Percentage Composition: C 55.11%; H 6.05%; N 4.94%; O 22.59%; S 11.32%

>>Variant: L-form

CAS Registry Number: 1152-62-1

Molecular Formula: C₁₃H₁₇NO₄S

Molecular Weight: 283.348

Accurate Mass: 283.087829

Percentage Composition: C 55.11%; H 6.05%; N 4.94%; O 22.59%; S 11.32%

Melting Point: Mp 68-69°

Optical Rotation: [α]_D −31.6 (c, 1 in MeOH)

Aldrich: 45924-0

Fluka: 96910

Sigma: C3752

>>Derivative: 4-Methylpyridyl ester

Synonym(s): 4-Picolyl ester. Z-MetOPic

Physical Description: Oil

Optical Rotation: [α]_D −27 (c, 5.7 in EtOH)

>>Derivative: Pentachlorophenyl

Synonym(s): Z-MetOPcp

CAS Registry Number: 4841-70-7

Melting Point: Mp 132-133°

Optical Rotation: [α]_D −1.4 (c, 0.55 in CHCl₃)

>>Derivative: Succinimido ester

Synonym(s): Z-MetOSu

CAS Registry Number: 3392-01-6

Melting Point: Mp 101-102°

Optical Rotation: [α]_D²⁵ −15.9 (c, 2 in dioxan)

>>Derivative: 2,4,5-Trichlorophenyl ester

Synonym(s): Z-MetOTcp

CAS Registry Number: 38763-82-5

Melting Point: Mp 112.5-13.5°

Optical Rotation: [α]_D −31.4 (c, 1.02 in DMF)

References:

Brenner, M. *et al.*, *Helv. Chim. Acta*, 1951, **34**, 2085, (*synth*)

Anderson, G.W. *et al.*, *J.A.C.S.*, 1960, **82**, 3359, (*picolyl*)

Costopanagiotis, A.A. *et al.*, *J.O.C.*, 1961, **31**, 3398, (*trichlorophenyl*)

Anderson, G.W. *et al.*, *J.A.C.S.*, 1964, **86**, 1839, (*succinimido*)

Kovacs, J. *et al.*, *J.O.C.*, 1967, **32**, 3696, (*pentachlorophenyl*)