



>>Entry Name: 3-Amino-5-hydroxybenzoic acid

CAS Registry Number: 76045-71-1

Molecular Formula: $C_7H_7NO_3$

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Use/Importance: Key biogenetic precursor of aromatic nuclei in ansamycin, mitomycin and maytansinoid antibiotics

>>Derivative: Hydrochloride

CAS Registry Number: 14206-69-0

Melting Point: Mp 200-230°

>>Derivative: Me ester

CAS Registry Number: 67973-80-2

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Physical Description: Cryst. (MeOAc/ $CHCl_3$)

Melting Point: Mp 125-127°

>>Derivative: N-Ac

CAS Registry Number: 93561-88-7

Molecular Formula: $C_9H_9NO_4$

Molecular Weight: 195.174

Accurate Mass: 195.053159

Percentage Composition: C 55.39%; H 4.65%; N 7.18%; O 32.79%

Physical Description: Amorph. (MeOH aq.)

Melting Point: Mp 245-253°

References:

- Bickel, H. *et al.*, *Tetrahedron, Suppl.*, No. 8, 1966, 171-179, (*synth*)
Herlt, A.J. *et al.*, *Aust. J. Chem.*, 1981, **34**, 1319, (*synth, ms, pmr*)
Kibby, J.J. *et al.*, *J. Antibiot.*, 1981, **34**, 605, (*isol*)
Becker, A.M. *et al.*, *Tetrahedron*, 1983, **20**, 4189, (*synth, pmr, ms*)
Becker, A.M. *et al.*, *Aust. J. Chem.*, 1984, **37**, 2103-2109, (*use, N-Ac*)
Kim, C.G. *et al.*, *J.A.C.S.*, 1992, **114**, 4941; 1996, **118**, 7486, (*biosynth*)
Watson, T.J.N. *et al.*, *Synth. Commun.*, 1999, **29**, 1379-1382, (*synth, pmr, cmr*)