



>>Entry Name: **2-Amino-5-iodobenzoic acid**

Synonym(s): 5-Iodoanthranilic acid

CAS Registry Number: 5326-47-6

Molecular Formula: $C_7H_6INO_2$

Molecular Weight: 263.034

Accurate Mass: 262.944327

Percentage Composition: C 31.96%; H 2.30%; I 48.25%; N 5.33%; O 12.17%

Use/Importance: Regulates plant growth

Physical Description: Needles or prisms (EtOH aq.)

Melting Point: Mp 208°. Mp 234 dec.°

Aldrich: A5960-3

Sigma: A1265

>>Derivative: *N*-Ac

CAS Registry Number: 5326-44-3

Molecular Formula: $C_9H_8INO_3$

Molecular Weight: 305.072

Accurate Mass: 304.954892

Percentage Composition: C 35.43%; H 2.64%; I 41.60%; N 4.59%; O 15.73%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 235°

>>Derivative: *N*-Et

Molecular Formula: $C_9H_{10}INO_2$

Molecular Weight: 291.088

Accurate Mass: 290.975627

Percentage Composition: C 37.14%; H 3.46%; I 43.60%; N 4.81%; O 10.99%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 162 dec.°

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **2**, 1121A, (*nmr*)

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Aldrich Library of NMR Spectra, **6**, 167D, (*nmr*)

Chichibabin, A.E. *et al.*, *Bull. Soc. Chim. Fr.*, 1942, 631, (*synth*)

Kilpi, S., *CA*, 1968, **69**, 86173t, (*synth*)

Goulette, G. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1975, **281**, 543, (*ir*)