



>>Variant: (±)-form

**CAS Registry Number:** 926-77-2

**Molecular Formula:** C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 146.146

**Accurate Mass:** 146.069143

**Percentage Composition:** C 41.09%; H 6.90%; N 19.17%; O 32.84%

**Physical Description:** Cryst. (EtOH aq.)

**Melting Point:** Mp 227 dec.°

**Solubility:** V. sol. H<sub>2</sub>O, v. spar. sol. EtOH

**Sigma:** G1504

>>Derivative: Et ester

**Molecular Formula:** C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 174.199

**Accurate Mass:** 174.100443

**Percentage Composition:** C 48.26%; H 8.10%; N 16.08%; O 27.55%

**Physical Description:** Needles (Et<sub>2</sub>O)

**Melting Point:** Mp 66° (sinters at 62°)

>>Derivative: Amide

**Molecular Formula:** C<sub>5</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>

**Molecular Weight:** 145.161

**Accurate Mass:** 145.085127

**Percentage Composition:** C 41.37%; H 7.64%; N 28.95%; O 22.04%

**Melting Point:** Mp 126-127°

>>Derivative: Anhydride

>>Derivative: *N*-Benzyloxycarbonyl

**CAS Registry Number:** 23446-00-6

**Physical Description:** Cryst.

**Melting Point:** Mp 183° (177-178°)

>>Derivative: *N*-Benzyloxycarbonyl, Et ester

**Melting Point:** Mp 53-55°

#### References:

- Schönheimer, R., *Hoppe Seyler's Z. Physiol. Chem.*, 1926, **154**, 203  
Erlanger, B.F. *et al.*, *J.A.C.S.*, 1951, **73**, 3508, (*synth*)  
Goldschmidt, S. *et al.*, *Annalen*, 1952, **575**, 217, (*synth*)  
Zahn, H. *et al.*, *Annalen*, 1957, **604**, 62; 1958, **613**, 76, (*synth*)  
Weygand, F. *et al.*, *Chem. Ber.*, 1960, **93**, 2983  
Birkofer, L. *et al.*, *Annalen*, 1962, **659**, 190, (*synth*)  
Benoiton, L. *et al.*, *J.C.S.*, 1964, 824, (*synth*)  
Izumiya, N. *et al.*, *Bull. Chem. Soc. Jpn.*, 1971, **44**, 3391-3395, (*benzyloxycarbonyl*)  
Saito, T., *Chem. Lett.*, 1975, 729-732, (*benzyloxycarbonyl*)  
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