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>>Derivative: Amide

**CAS Registry Number:** 7324-05-2

**Molecular Formula:** C<sub>3</sub>H<sub>8</sub>N<sub>2</sub>O

**Molecular Weight:** 88.109

**Accurate Mass:** 88.063663

**Percentage Composition:** C 40.90%; H 9.15%; N 31.79%; O 18.16%

**Physical Description:** Hygroscopic prisms (CHCl<sub>3</sub>)

**Melting Point:** Mp 72°

>>Derivative: Nitrile; hydrochloride

**CAS Registry Number:** 59981-03-2

**Melting Point:** Mp 156-158 dec.°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>22</sup> -15.3 (c, 0.708, H<sub>2</sub>O) (93% op)

>>Derivative: *N*-Ac

**CAS Registry Number:** 97-69-8

**Molecular Formula:** C<sub>5</sub>H<sub>9</sub>NO<sub>3</sub>

**Molecular Weight:** 131.131

**Accurate Mass:** 131.058244

**Percentage Composition:** C 45.80%; H 6.92%; N 10.68%; O 36.60%

**Melting Point:** Mp 125°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> -66.2 (c, 2 in H<sub>2</sub>O)

**Sigma:** A4625

>>Derivative: *N*-Ac, Me ester

**CAS Registry Number:** 3619-02-1

**Molecular Formula:** C<sub>6</sub>H<sub>11</sub>NO<sub>3</sub>

**Molecular Weight:** 145.158

**Accurate Mass:** 145.073894

**Percentage Composition:** C 49.65%; H 7.64%; N 9.65%; O 33.07%

**Physical Description:** Oil

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -62.2 (c, 1.3 in MeOH)