



Optical Rotation: $[\alpha]_{\text{D}}^{20} -31.8$ (c, 1 in Et₂O)

>>**Derivative:** Nitrile, *N*-benzoyl

Synonym(s): 1-Benzoyl-2-cyanoaziridine

CAS Registry Number: 131063-97-3

Molecular Formula: C₁₀H₈N₂O

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

Optical Rotation: $[\alpha]_{\text{D}}^{22} -193.3$ (c, 0.405 in Et₂O)

>>**Derivative:** *N*-(4-Methylbenzenesulfonyl)

CAS Registry Number: 88452-86-2

Molecular Formula: C₁₀H₁₁NO₄S

Molecular Weight: 241.267

Accurate Mass: 241.040879

Percentage Composition: C 49.78%; H 4.60%; N 5.81%; O 26.53%; S 13.29%

Physical Description: Pale brown liq.

>>**Derivative:** *N*-(4-Methylbenzenesulfonyl), Me ester

CAS Registry Number: 105424-75-7

Molecular Formula: C₁₁H₁₃NO₄S

Molecular Weight: 255.294

Accurate Mass: 255.056529

Percentage Composition: C 51.75%; H 5.13%; N 5.49%; O 25.07%; S 12.56%

Physical Description: Liq.

Optical Rotation: $[\alpha]_{\text{D}}^{20} -55.2$ (c, 1.17 in CHCl₃)

>>**Variant:** (±)-form

CAS Registry Number: 79517-00-3

Molecular Formula: C₃H₅NO₂

Molecular Weight: 87.078

Accurate Mass: 87.032029

Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%

Other Data: Unstable, acid-labile, stored as salts

>>**Derivative:** Li salt

Physical Description: Cryst.

Melting Point: Mp 260-270 dec.°

>>**Derivative:** Na salt

CAS Registry Number: 79516-99-7

Physical Description: Hygroscopic solid

Melting Point: Mp 155-157°

>>**Derivative:** Me ester

CAS Registry Number: 5950-34-5

Molecular Formula: C₄H₇NO₂

Molecular Weight: 101.105

Accurate Mass: 101.047679

Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%

Physical Description: Oil

Boiling Point: Bp 142-143°. Bp₁₈ 50°

Density: d²⁰ 1.12

Refractive Index: n_D²⁴ 1.4405