



>>Entry Name: 3-Nitrocarbazole

CAS Registry Number: 3077-85-8

Molecular Formula: C₁₂H₈N₂O₂

Molecular Weight: 212.207

Accurate Mass: 212.058578

Percentage Composition: C 67.92%; H 3.80%; N 13.20%; O 15.08%

Physical Description: Reddish-brown rods (EtOH aq.), dark-yellow cryst.

Melting Point: Mp 214°

Solubility: Insol. Et₂O; spar. sol. CHCl₃, AcOH

Other Data: Conc. H₂SO₄ → red soln.

Rare Chemicals Library: S75827-2

>>Derivative: *N*-Ac

Molecular Formula: C₁₄H₁₀N₂O₃

Molecular Weight: 254.245

Accurate Mass: 254.069143

Percentage Composition: C 66.14%; H 3.96%; N 11.02%; O 18.88%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 237-238°

Solubility: Sol. CHCl₃, spar. sol. EtOH

>>Derivative: *N*-Me

CAS Registry Number: 61166-05-0

Molecular Formula: C₁₃H₁₀N₂O₂

Molecular Weight: 226.234

Accurate Mass: 226.074228

Percentage Composition: C 69.02%; H 4.46%; N 12.38%; O 14.14%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 173° (169-171°)

Rare Chemicals Library: S28949-3

>>Derivative: *N*-Et

CAS Registry Number: 86-20-4

Molecular Formula: C₁₄H₁₂N₂O₂

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 126-128°

Rare Chemicals Library: S37546-2

>>Derivative: *N*-Nitroso

Molecular Formula: C₁₂H₇N₃O₃

Molecular Weight: 241.206

Accurate Mass: 241.048742

Percentage Composition: C 59.75%; H 2.93%; N 17.42%; O 19.90%

Use/Importance: Reagent for transnitrosation of secondary amines

Physical Description: Pale-yellow needles (EtOH)

Melting Point: Mp 166.5 dec.°

References: