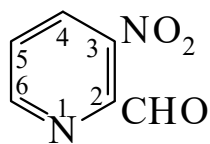




>>Entry Name: 3-Nitro-2-pyridinecarboxaldehyde, 9CI

Synonym(s): 2-Formyl-3-nitropyridine



CAS Registry Number: 10261-94-6

Molecular Formula: C₆H₄N₂O₃

Molecular Weight: 152.109

Accurate Mass: 152.022193

Percentage Composition: C 47.38%; H 2.65%; N 18.42%; O 31.56%

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 63°

>>Derivative: Covalent hydrate

Synonym(s): (3-Nitro-2-pyridinyl)methanediol, 9CI

CAS Registry Number: 36625-65-7

Molecular Formula: C₆H₆N₂O₄

Molecular Weight: 170.124

Accurate Mass: 170.032758

Percentage Composition: C 42.36%; H 3.55%; N 16.47%; O 37.62%

Physical Description: Cryst.

Melting Point: Mp 99-100°

Other Data: Stains skin dark brown

>>Derivative: Oxime

CAS Registry Number: 36625-68-0

Molecular Formula: C₆H₅N₃O₃

Molecular Weight: 167.124

Accurate Mass: 167.033092

Percentage Composition: C 43.12%; H 3.02%; N 25.14%; O 28.72%

Physical Description: Cryst.

Melting Point: Mp 202 dec.°

>>Derivative: Phenylhydrazone

Physical Description: Cryst.

Melting Point: Mp 140-141°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Cryst.

Melting Point: Mp 230-232°

>>Derivative: Thiosemicarbazone

Physical Description: Cryst.

Melting Point: Mp 225-227° (214° dec.)

>>Derivative: Ethylene acetal

Synonym(s): 2-(1,3-Dioxolan-2-yl)-3-nitropyridine, 9CI

CAS Registry Number: 143621-31-2

Molecular Formula: C₈H₈N₂O₄

Molecular Weight: 196.162

Accurate Mass: 196.048408

Percentage Composition: C 48.98%; H 4.11%; N 14.28%; O 32.62%

Physical Description: Needles

Melting Point: Mp 65-67°

References:

Achremowicz, L. *et al.*, *Pol. J. Chem. (Rocz. Chem.)*, 1972, **46**, 409, (*synth, derivs, ir*)

Liu, M.-C. *et al.*, *J. Med. Chem.*, 1992, **35**, 3672, (*synth, acetal, pmr*)

Niu, C. *et al.*, *Tetrahedron*, 1998, **54**, 393-400; 6311-6318, (*synth, deriv, pmr*)