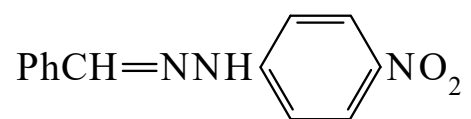




>>Entry Name: Benzaldehyde (4-nitrophenyl)hydrazone, 9CI



CAS Registry Number: 3078-09-9

Molecular Formula: C₁₃H₁₁N₃O₂

Molecular Weight: 241.249

Accurate Mass: 241.085127

Percentage Composition: C 64.72%; H 4.60%; N 17.42%; O 13.26%

Use/Importance: Acid-base indicator (pH range: 11-12; colour change: yellow→red). Used as a 0.5% soln. in MeOH

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 211°

Solubility: Sol. EtOH; insol. H₂O

pKa Value: pK_a 11.5

Sigma: B2625

References:

Cuisa, R. *et al.*, *Gazz. Chim. Ital.*, 1922, **52II**, 215, (*synth*)

O'Connor, R., *Anal. Chem.*, 1961, **33**, 1282, (*use*)