



>>Entry Name: 1,1-Diphenylhydrazine, 9CI

CAS Registry Number: 530-50-7

Related CAS Registry Numbers(s): 17018-72-3 38622-18-3

Type of Compound Code(s): PA3800

Ph₂NNH₂

Molecular Formula: C₁₂H₁₂N₂

Molecular Weight: 184.24

Accurate Mass: 184.100048

Percentage Composition: C 78.23%; H 6.56%; N 15.20%

Use/Importance: Reagent for characterisation of carbonyl compds.; extraction-photometric detn. of Se (λ_{max} 530 nm, ϵ 25700)

Physical Description: Plates (petrol)

Melting Point: Mp 34.5°. Mp 44°

Boiling Point: Bp₄₅ 220° (lit. gives a pressure range)

>>Derivative: Hydrochloride

CAS Registry Number: 530-47-2

Melting Point: Mp 165-170°

Aldrich: 11459-6

Fluka: 43080

>>Derivative: Ac

CAS Registry Number: 6233-05-2

Molecular Formula: C₁₄H₁₄N₂O

Molecular Weight: 226.277

Accurate Mass: 226.110613

Percentage Composition: C 74.31%; H 6.24%; N 12.38%; O 7.07%

Physical Description: Needles

Melting Point: Mp 188.5°

>>Derivative: Benzoyl

CAS Registry Number: 970-31-0

Molecular Formula: C₁₉H₁₆N₂O

Molecular Weight: 288.348

Accurate Mass: 288.126263

Percentage Composition: C 79.14%; H 5.59%; N 9.72%; O 5.55%

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 194°

References:

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Kalamur, J. *et al.*, *CA*, 1967, **69**, 86668h, (*synth*)

Koga, N. *et al.*, *J.O.C.*, 1968, **33**, 3963, (*synth*)

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