



>>Entry Name: (2,4-Dichlorophenyl)hydrazine, 9Cl

CAS Registry Number: 13123-92-7

Molecular Formula: C₆H₆Cl₂N₂

Molecular Weight: 177.032

Accurate Mass: 175.990802

Percentage Composition: C 40.71%; H 3.42%; Cl 40.05%; N 15.82%

Physical Description: Needles (Et₂O or petrol)

Melting Point: Mp 93-94.5°

pKa Value: pK_a 4.3 (25°)

>>Derivative: Hydrochloride

CAS Registry Number: 5446-18-4

Physical Description: Plates

Melting Point: Mp 210° (dec.). Mp 217-218° (210°, dec.)

Aldrich: 15280-3

Fluka: 36218

>>Derivative: N'-Ac

Synonym(s): 2,4-Dichlorophenylacethydrazide

Molecular Formula: C₈H₈Cl₂N₂O

Molecular Weight: 219.069

Accurate Mass: 218.001367

Percentage Composition: C 43.86%; H 3.68%; Cl 32.37%; N 12.79%; O 7.30%

Physical Description: Prisms

Melting Point: Mp 157°

>>Derivative: N'-Benzoyl

Synonym(s): 2,4-Dichlorophenylbenzhydrazide

Molecular Formula: C₁₃H₁₀Cl₂N₂O

Molecular Weight: 281.14

Accurate Mass: 280.017017

Percentage Composition: C 55.54%; H 3.59%; Cl 25.22%; N 9.96%; O 5.69%

Physical Description: Needles

Melting Point: Mp 168°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1263B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 1029D, (*nmr*)

Chattaway, F.D. *et al.*, *J.C.S.*, 1915, **107**, 32, (*synth*)

Carlin, R.B. *et al.*, *J.A.C.S.*, 1948, **70**, 3421, (*synth*)

Bullock, M.W. *et al.*, *J.A.C.S.*, 1956, **78**, 5854, (*synth*)