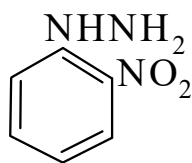




>>Entry Name: (2-Nitrophenyl)hydrazine, 9CI



CAS Registry Number: 3034-19-3

Molecular Formula: $C_6H_7N_3O_2$

Molecular Weight: 153.14

Accurate Mass: 153.053827

Percentage Composition: C 47.06%; H 4.61%; N 27.44%; O 20.90%

Use/Importance: Occasionally used to characterise carbonyl compds., esp. sugars. Anal. reagent for carboxylic acids, anhydrides and acid chlorides

Physical Description: Dark-red needles (C_6H_6)

Melting Point: Mp 90°

Aldrich: N2158-8

Fluka: 73680

Sigma: N8128

>>Derivative: Hydrochloride

CAS Registry Number: 6293-87-4

Extra CAS Registry Numbers(s): 56413-75-3

Melting Point: Mp 200-201 dec. $^\circ$ (rapid heating)

>>Derivative: Ac

Molecular Formula: $C_8H_9N_3O_3$

Molecular Weight: 195.177

Accurate Mass: 195.064392

Percentage Composition: C 49.23%; H 4.65%; N 21.53%; O 24.59%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp $140-141^\circ$

>>Derivative: Di-Ac

Molecular Formula: $C_{10}H_{11}N_3O_4$

Molecular Weight: 237.215

Accurate Mass: 237.074957

Percentage Composition: C 50.63%; H 4.67%; N 17.71%; O 26.98%

Physical Description: Prisms (EtOH)

Melting Point: Mp $57-58^\circ$

>>Derivative: Benzoyl

Molecular Formula: $C_{13}H_{11}N_3O_3$

Molecular Weight: 257.248

Accurate Mass: 257.080042

Percentage Composition: C 60.70%; H 4.31%; N 16.33%; O 18.66%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 166°

References: