>>**Entry Name: (4-Methylphenyl)hydrazine,** 9CI
Synonym(s): *p*-Tolylhydrazine, 8CI. *p*-Hydrazinotoluene

CAS Registry Number: 539-44-6

Molecular Formula: $C_7H_{10}N_2$
Molecular Weight: 122.169
Accurate Mass: 122.084398
Percentage Composition: C 68.82%; H 8.25%; N 22.93%
Physical Description: Leaflets (Et_2O)
Melting Point: Mp 65-66°
Boiling Point: Bp 240-244° sl. dec.
pKa Value: pK_a 5.32 (25°)
Hazard & Toxicity: LD_{50} (mus, ipr) 150 mg/kg

>>**Derivative:** Hydrochloride

CAS Registry Number: 637-60-5
Melting Point: Mp 200 dec.°
Hazard & Toxicity: Irritant
Aldrich: T4060-6
Fluka: 90120

>>**Derivative:** 2-*N*-Ac

Molecular Formula: $C_9H_{12}N_2O$
Molecular Weight: 164.207
Accurate Mass: 164.094963
Percentage Composition: C 65.83%; H 7.37%; N 17.06%; O 9.74%
Melting Point: Mp 130°

>>**Derivative:** 1-*N*-Benzoyl

Molecular Formula: $C_{14}H_{14}N_2O$
Molecular Weight: 226.277
Accurate Mass: 226.110613
Percentage Composition: C 74.31%; H 6.24%; N 12.38%; O 7.07%
Physical Description: Leaflets (C_6H_6)
Melting Point: Mp 146°

>>**Derivative:** 2-*N*-Benzoyl

Molecular Formula: $C_{14}H_{14}N_2O$
Molecular Weight: 226.277
Accurate Mass: 226.110613
Percentage Composition: C 74.31%; H 6.24%; N 12.38%; O 7.07%
Physical Description: Leaflets (C_6H_6)
Melting Point: Mp 146°

>>**Derivative:** 1,2-*N*-Dibenzoyl

Molecular Formula: $C_{21}H_{18}N_2O_2$
Molecular Weight: 330.385
Accurate Mass: 330.136828
Percentage Composition: C 76.34%; H 5.49%; N 8.48%; O 9.69%
Physical Description: Leaflets (EtOH)
Melting Point: Mp 188°

>>**Derivative:** 2-*N*-Ph

>>**Derivative:** 2-*N*-Formyl
Synonym(s): 2-(4-Methylphenyl)hydrazinecarboxaldehyde, 9CI