CAS Registry Number: 103-02-6
Molecular Formula: $C_9H_{12}N_2$
Molecular Weight: 148.207
Accurate Mass: 148.100048
Percentage Composition: C 72.94%; H 8.16%; N 18.90%
Physical Description: Liq.
Boiling Point: Bp_{10} 128°
Density: d_4^{20} 1.012

>>**Derivative:** 2,4-Dinitrophenylhydrazone

CAS Registry Number: 1567-89-1

Molecular Formula: $C_9H_{10}N_4O_4$
Molecular Weight: 238.202
Accurate Mass: 238.070206
Percentage Composition: C 45.38%; H 4.23%; N 23.52%; O 26.87%
Use/Importance: Used as 0.05% EtOH soln. as acid-base indicator (pH range: 11.6-12.6; colour change: pale yellow → red)
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 128°
Solubility: Sol. H_2O, EtOH, Et_2O
Aldrich: 42958-9
Rare Chemicals Library: S84251-6
Supelco: 44-2436

>>**Derivative:** Semicarbazone

CAS Registry Number: 110-20-3
Physical Description: Needles (H_2O or Me_2CO)
Melting Point: Mp 190-191 dec.°
Rare Chemicals Library: S44978-4

>>**Derivative:** Thiosemicarbazone
Synonym(s): 2-(1-Methylethylidene)hydrazinecarbothioamide, 9CI

CAS Registry Number: 1752-30-3

Molecular Formula: $C_4H_9N_3S$
Molecular Weight: 131.201
Accurate Mass: 131.051717
Percentage Composition: C 36.62%; H 6.91%; N 32.03%; S 24.44%
Use/Importance: Used as 2.5% soln. in Me_2CO aq. for extraction-photometric detn. of Mo (λ_{max} 472 nm, ε 19000, $CHCl_3$)
Physical Description: Yellow cryst.
Melting Point: Mp 175-178°
Solubility: Sol. Me_2CO

Rare Chemicals Library: S44230-5

>>**Derivative:** Anil
Synonym(s): Isopropylideneaniline

CAS Registry Number: 1124-52-3
Molecular Formula: $C_9H_{11}N$
Molecular Weight: 133.193
Accurate Mass: 133.089149
Percentage Composition: C 81.16%; H 8.32%; N 10.52%
Boiling Point: Bp_{20} 227-229°
Other Data: The trivial name ``acetone anil'' has also been appl. to 1,2-Dihydro-2,2,4-trimethylquinoline