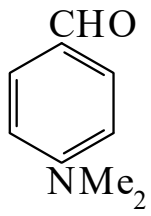
>>**Entry Name: 4-(Dimethylamino)benzaldehyde,** 9CI
Synonym(s): Ehrlich's reagent



CAS Registry Number: 100-10-7
Extra CAS Registry Numbers(s): 28602-27-9
Type of Compound Code(s): PG5250 PS8300 PG5480

Molecular Formula: $C_9H_{11}NO$
Molecular Weight: 149.192
Accurate Mass: 149.084064
Percentage Composition: C 72.46%; H 7.43%; N 9.39%; O 10.72%
Use/Importance: Used as 5% EtOH soln. in photometric detn. of N_2H_4 (λ_{max} 455 nm). Reagent for conversion of alkyl halides to aldehydes. Used as 1% soln. in acidified MeOH for detn. of amines, indoles, ergot alcohols and pyrrolizidine alkaloids
Physical Description: Cryst.
Melting Point: Mp 74°
Boiling Point: Bp_{17} 176-177°
Solubility: Sol. alcohols
Hazard & Toxicity: LD_{50} (rat, ipr) 620 mg/kg

Aldrich: 15647-7
Fluka: 39080
Sigma: D2004

>>**Derivative:** Hydrochloride

CAS Registry Number: 5988-39-6
Physical Description: Cryst.
Melting Point: Mp 107-109°

>>**Derivative:** (*E*)-Oxime

CAS Registry Number: 37961-71-0
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%
Physical Description: Cryst.
Melting Point: Mp 144°

>>**Derivative:** (*Z*)-Oxime

CAS Registry Number: 77145-76-7
Physical Description: Cryst.
Melting Point: Mp 185 dec.°

>>**Derivative:** 4-Nitrophenylhydrazone

Melting Point: Mp 182°

>>**Derivative:** Thiosemicarbazone

Type of Compound Code(s): PA3150 PM7120
Molecular Formula: $C_{10}H_{14}N_4S$
Molecular Weight: 222.313
Accurate Mass: 222.093916
Percentage Composition: C 54.03%; H 6.35%; N 25.20%; S 14.42%
Use/Importance: Reagent for detn. of Pd(*II*)
Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 208°

References: