



>>Entry Name: 4-Methylbenzaldehyde

Synonym(s): *p*-Toluic aldehyde. *p*-Tolualdehyde

CAS Registry Number: 104-87-0

Extra CAS Registry Numbers(s): 1334-78-7 3235-02-7

Molecular Formula: C₈H₈O

Molecular Weight: 120.151

Accurate Mass: 120.057515

Percentage Composition: C 79.97%; H 6.71%; O 13.32%

Physical Description: Liq. with peppermint odour

Boiling Point: Bp 204-205°. Bp₁₀ 106°

Density: d₄¹⁶ 1.019

Hazard & Toxicity: Fl. p. 80°

Aldrich: T3560-2

Fluka: 89850

>>Derivative: (*E*)-Oxime

CAS Registry Number: 3717-15-5

Molecular Formula: C₈H₉NO

Molecular Weight: 135.165

Accurate Mass: 135.068414

Percentage Composition: C 71.09%; H 6.71%; N 10.36%; O 11.84%

Melting Point: Mp 79-80°

>>Derivative: (*Z*)-Oxime

CAS Registry Number: 3717-16-6

Extra CAS Registry Numbers(s): 3235-02-7

Melting Point: Mp 108-110°

>>Derivative: Hydrazone

CAS Registry Number: 52693-87-5

Molecular Formula: C₈H₁₀N₂

Molecular Weight: 134.18

Accurate Mass: 134.084398

Percentage Composition: C 71.61%; H 7.51%; N 20.88%

Melting Point: Mp 135°

Boiling Point: Bp₁₂ 148°

>>Derivative: Phenylhydrazone

CAS Registry Number: 2829-25-6

Melting Point: Mp 121°

>>Derivative: 4-Nitrophenylhydrazone

CAS Registry Number: 10477-83-5

Physical Description: Dark red cryst. (EtOH)

Melting Point: Mp 200.5°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 2571-00-8

Physical Description: Orange-yellow cryst. (PhNO₃)

Melting Point: Mp 232.5-234.5°

Aldrich: 42969-4

Rare Chemicals Library: S64641-5

Supelco: R30-3025

>>Derivative: Semicarbazone

Melting Point: Mp 234°