



>>Entry Name: 3-Methylbenzaldehyde

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

CAS Registry Number: 620-23-5

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

Molecular Formula: C<sub>8</sub>H<sub>8</sub>O

Molecular Weight: 120.151

Accurate Mass: 120.057515

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

Boiling Point: Bp 201°. Bp<sub>17</sub> 93-94°

Density: d<sub>4</sub><sup>21</sup> 1.02

Hazard & Toxicity: Fl. p. 78°

Aldrich: T3550-5

Fluka: 89840

>>Derivative: Semicarbazone

Melting Point: Mp 223-224°

>>Derivative: Hydrazone

Molecular Formula: C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>

Molecular Weight: 134.18

Accurate Mass: 134.084398

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

Melting Point: Mp 71-72°

>>Derivative: Phenylhydrazone

CAS Registry Number: 59670-13-2

Melting Point: Mp 90°

>>Derivative: 4-Nitrophenylhydrazone

Melting Point: Mp 151-157°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 2880-05-9

Melting Point: Mp 211.5-212.5°

Aldrich: 42968-6

Supelco: R30-3020

#### References:

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 935B, (*nmr*)

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 107A, (*ir*)

*Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 1286C, (*ir*)

Costa, L. *et al.*, *J. Het. Chem.*, 1974, **11**, 943, (*synth*)

Watanabe, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 2490, (*synth*)

Schiess, P. *et al.*, *Helv. Chim. Acta*, 1976, **59**, 1745, (*pmr*)