



>>Entry Name: 2,4-Dimethylbenzaldehyde

ENTRY UNDER REVIEW

Synonym(s): *m*-Xylylaldehyde. FEMA 3247

CAS Registry Number: 15764-16-6

Type of Compound Code(s): WE2000

Structure by analogy with 2,3-Dimethylbenzaldehyde, [DZV31-I](#)

Molecular Formula: C₉H₁₀O

Molecular Weight: 134.177

Accurate Mass: 134.073165

Percentage Composition: C 80.56%; H 7.51%; O 11.92%

Physical Description: Liq.

Melting Point: Mp -9°

Boiling Point: Bp 215-216°. Bp₁₀ 99°

Refractive Index: n_D²⁰ 1.5490

Aldrich: W34271-8

>>Derivative: (*E*)-Oxime

Molecular Formula: C₉H₁₁NO

Molecular Weight: 149.192

Accurate Mass: 149.084064

Percentage Composition: C 72.46%; H 7.43%; N 9.39%; O 10.72%

Physical Description: Prisms (petrol)

Melting Point: Mp 84-85°. Mp 88°

>>Derivative: (*Z*)-Oxime

Molecular Formula: C₉H₁₁NO

Molecular Weight: 149.192

Accurate Mass: 149.084064

Percentage Composition: C 72.46%; H 7.43%; N 9.39%; O 10.72%

Physical Description: Small needles (EtOH)

Melting Point: Mp 126°

>>Derivative: Semicarbazone

Melting Point: Mp 225-227°

>>Derivative: Phenylhydrazone

CAS Registry Number: 86726-05-8

Physical Description: Leaflets (AcOH aq.)

Melting Point: Mp 88°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Cryst. (C₆H₆/xylene)

Melting Point: Mp 228-229°

>>Derivative: Dimethylhydrazone

CAS Registry Number: 134172-79-5

Molecular Formula: C₁₁H₁₆N₂

Molecular Weight: 176.261

Accurate Mass: 176.131348

Percentage Composition: C 74.96%; H 9.15%; N 15.89%

Physical Description: Liq.

Boiling Point: Bp₅ 85-87°

References: