



>>Entry Name: **1,3-Diacetylbenzene**

Synonym(s): 1,1'-(1,3-Phenylene)bisethanone, 9Cl. *m*-Acetylacetophenone

CAS Registry Number: 6781-42-6

Molecular Formula: C₁₀H₁₀O₂

Molecular Weight: 162.188

Accurate Mass: 162.06808

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

Physical Description: Needles (EtOH aq. or Et₂O)

Melting Point: Mp 32°

Aldrich: 15898-4

Fluka: 31536

>>Derivative: Dioxime

CAS Registry Number: 27912-61-4

Molecular Formula: C₁₀H₁₂N₂O₂

Molecular Weight: 192.217

Accurate Mass: 192.089878

Percentage Composition: C 62.49%; H 6.29%; N 14.57%; O 16.65%

Melting Point: Mp 238-240°

>>Derivative: Bisphenylhydrazone

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 115°

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **2**, 817C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 16D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1237B, (*ir*)

Aldrich Library of NMR Spectra, **6**, 14B, (*pmr*)

Ruggli, P. *et al.*, *Helv. Chim. Acta*, 1936, **19**, 962, (*synth*)