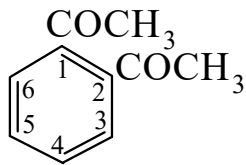




>>Entry Name: 1,2-Diacetylbenzene

Synonym(s): 1,1'-(1,2-Phenylene)bisethanone, 9Cl. *o*-Acetylacetophenone



CAS Registry Number: 704-00-7

Molecular Formula: C₁₀H₁₀O₂

Molecular Weight: 162.188

Accurate Mass: 162.06808

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

Use/Importance: Colorimetric reagent for amino acids and primary amines

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 39-40°

Aldrich: 24203-9

Fluka: 31535

Sigma: D1775

>>Derivative: Dioxime

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%

Physical Description: Cryst.

Melting Point: Mp 183-185°

>>Derivative: Bis-2,4-dinitrophenylhydrazone

Physical Description: Orange solid (C₆H₆/dioxan)

Melting Point: Mp 210°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 816C, (*nmr*)

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Goldschmidt, S. *et al.*, *Chem. Ber.*, 1961, **94**, 169, (*synth*)

Krauss, G.J., *J. Chromatogr.*, 1972, **74**, 152, (*use*)

Moriarty, R.M. *et al.*, *Synthesis*, 1993, 318, (*synth, ir, pmr, cmr, ms*)