



>>Entry Name: 1-(4-Methylphenyl)-1-propanone, 9CI

Synonym(s): 4'-Methylpropiophenone. Ethyl *p*-tolyl ketone. *p*-Propionyltoluene

CAS Registry Number: 5337-93-9

Molecular Formula: C₁₀H₁₂O

Molecular Weight: 148.204

Accurate Mass: 148.088815

Percentage Composition: C 81.04%; H 8.16%; O 10.80%

Boiling Point: Bp 238-239°. Bp₄ 78-82°

Density: d₄⁰ 1.005

Aldrich: 19468-9

>>Derivative: Oxime

CAS Registry Number: 59507-21-0

Molecular Formula: C₁₀H₁₃NO

Molecular Weight: 163.219

Accurate Mass: 163.099714

Percentage Composition: C 73.59%; H 8.03%; N 8.58%; O 9.80%

Melting Point: Mp 89-90°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 204-205° (201°)

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 818B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 25C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1245A, (*ir*)

Noller, C.R. *et al.*, *J.A.C.S.*, 1924, **46**, 1893, (*synth*)

Scoggins, L.E. *et al.*, *J.O.C.*, 1961, **26**, 3490, (*deriv, uv*)

Schultz, H.P. *et al.*, *J.O.C.*, 1963, **28**, 879, (*synth*)

Iacopo, D. *et al.*, *Gazz. Chim. Ital.*, 1975, **105**, 907, (*synth*)