



>>Entry Name: 3'-Methylacetophenone, 8Cl

Synonym(s): 1-(3-Methylphenyl)ethanone, 9Cl. *m*-Acetyltoluene

CAS Registry Number: 585-74-0

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.

Boiling Point: Bp 220°. Bp₁₂ 109°

Density: d₄¹⁵ 1.011

pKa Value: pK_{a1} -6.02 (25°, H₂SO₄ aq.)

Aldrich: M2660-7

Fluka: 65470

Sigma: M9520

>>Derivative: Oxime

CAS Registry Number: 23040-54-2

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: Cryst. (EtOH aq.)

Melting Point: Mp 54-56°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 197-198°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Orange-red cryst. (AcOH)

Melting Point: Mp 210°

References:

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Mauthner, F., *J. Prakt. Chem.*, 1922, **103**, 394

Jones, G., *J.C.S.*, 1960, 1918

Laird, R.M. *et al.*, *J.A.C.S.*, 1961, **83**, 4277

Beckey, H.D. *et al.*, *Org. Mass Spectrom.*, 1972, **6**, 923, (*ms*)

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