



>>Entry Name: 3-Methylbenzophenone, 8Cl

Synonym(s): (3-Methylphenyl)phenylmethanone, 9Cl. Phenyl *m*-tolyl ketone. 3-Benzoyltoluene

CAS Registry Number: 643-65-2

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Physical Description: Oil

Boiling Point: Bp₇₂₃ 311-313°. Bp₁₆ 183-185°

Density: d^{17.5}₄ 1.09

Refractive Index: n_D²⁰ 1.5970

Aldrich: 19805-6

>>Derivative: Oxime

CAS Registry Number: 27428-63-3

Molecular Formula: C₁₄H₁₃NO

Molecular Weight: 211.263

Accurate Mass: 211.099714

Percentage Composition: C 79.59%; H 6.20%; N 6.63%; O 7.57%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 100-101°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 221°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 59B, (*ir*)

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Ador, E. *et al.*, *Ber.*, 1879, **12**, 2298

Goldschmidt, H. *et al.*, *Ber.*, 1891, **24**, 2797

Grimaud, M. *et al.*, *Bull. Soc. Chim. Fr.*, 1974, 1935, (*uv*)

Bywood, R. *et al.*, *J.C.S. Perkin I*, 1975, 2019, (*use*)