



>>Entry Name: 3,4-Dimethylbenzophenone, 8Cl

Synonym(s): (3,4-Dimethylphenyl)phenylmethanone, 9Cl. 4-Benzoyl-*o*-xylene

CAS Registry Number: 2571-39-3

Structure by analogy with 2,2'-Dimethylbenzophenone, [DZV95-E](#)

Molecular Formula: C<sub>15</sub>H<sub>14</sub>O

Molecular Weight: 210.275

Accurate Mass: 210.104465

Percentage Composition: C 85.68%; H 6.71%; O 7.61%

Physical Description: Needles

Melting Point: Mp 47-48°

Boiling Point: Bp<sub>744</sub> 340°. Bp<sub>0.2</sub> 135-145°

Aldrich: D14967-5

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 221-222°

#### References:

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 887A, (*nmr*)

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 60B, (*ir*)

*Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 1267A, (*ir*)

Elbs, K., *J. Prakt. Chem.*, 1887, **35**, 465, (*synth*)

*U.S. Pat.*, 1957, 2 818 436; *CA*, **52**, 8200d, (*synth*)

*U.S. Pat.*, 1959, 2 879 297; *CA*, **54**, 1436f, (*synth*)

de Roos, A.M. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1968, **87**, 1381, (*pmr*)

Masayoshi, T. *et al.*, *Chem. Lett.*, 1972, 659, (*pmr*)