



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

Synonym(s): Bis(4-methylphenyl)methanone, 9Cl. Di-*p*-tolyl ketone

CAS Registry Number: 611-97-2

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

Molecular Formula: C₁₅H₁₄O

Molecular Weight: 210.275

Accurate Mass: 210.104465

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

Physical Description: Rhombic cryst. (EtOH)

Melting Point: Mp 95°

Boiling Point: Bp₇₂₅ 333-334°. Bp₂ 185-210°

Aldrich: 22527-4

Fluka: 39602

Rare Chemicals Library: S27134-9

>>Derivative: Oxime

CAS Registry Number: 1714-49-4

Molecular Formula: C₁₅H₁₅NO

Molecular Weight: 225.29

Accurate Mass: 225.115364

Percentage Composition: C 79.97%; H 6.71%; N 6.22%; O 7.10%

Physical Description: Prisms (EtOH)

Melting Point: Mp 163°

>>Derivative: Hydrazone

Molecular Formula: C₁₅H₁₆N₂

Molecular Weight: 224.305

Accurate Mass: 224.131348

Percentage Composition: C 80.32%; H 7.19%; N 12.49%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 108-110°

>>Derivative: *p*-Nitrophenylhydrazone

Melting Point: Mp 159°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 17189-88-7

Melting Point: Mp 223-225° (220°)

References:

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Rekker, R.F. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1961, **80**, 747, (*uv*)
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de Roos, A.M. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1968, **87**, 1381, (*pmr*)
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