



>>Entry Name: 1-(4-Chlorophenyl)-2-phenylethanone, 9Cl

Synonym(s): 4'-Chloro-2-phenylacetophenone, 8Cl. Benzyl *p*-chlorophenyl ketone. 4-Chloro- α -phenylacetophenone

CAS Registry Number: 1889-71-0

Structure by analogy with 1-(2-Chlorophenyl)-2-phenylethanone, [DWZ78-A](#)

Molecular Formula: C₁₄H₁₁ClO

Molecular Weight: 230.693

Accurate Mass: 230.049842

Percentage Composition: C 72.89%; H 4.81%; Cl 15.37%; O 6.94%

Melting Point: Mp 107.5°

>>Derivative: Oxime

Molecular Formula: C₁₄H₁₂ClNO

Molecular Weight: 245.708

Accurate Mass: 245.060741

Percentage Composition: C 68.44%; H 4.92%; Cl 14.43%; N 5.70%; O 6.51%

Physical Description: Needles

Melting Point: Mp 123°

References:

Jenkins, S.S. *et al.*, *J.A.C.S.*, 1933, **55**, 1618-1621, (*synth*)

Robinson, G.E. *et al.*, *J.C.S. Perkin I*, 1972, 1277-1281, (*synth*, *ir*, *pmr*)

Semenova, S.N. *et al.*, *CA*, 1974, **81**, 77043, (*uv*)

Weber, F.G. *et al.*, *Z. Chem.*, 1974, **14**, 18-19, (*ir*, *pmr*)

U.S. Pat., 1976, 3 968 251; *CA*, **85**, 116915, (*synth*)

Jang, W.B. *et al.*, *Synth. Commun.*, 1997, **27**, 3333-3339, (*synth*, *pmr*)

Miyashita, A. *et al.*, *Chem. Pharm. Bull.*, 1998, **46**, 6-11, (*synth*)