Crystal structure analysis of (E) - (2-chlorophenyl) (phenyl) methanone O-benzyl oxime

K. Elumalai¹*, M. Bhargava Reddy ², R. Anandhan² and K. Sakthi Murugesan¹

¹,²Department of Physics, Presidency College (Autonomous), Chennai-600 005, India
³Department of Organic Chemistry, University of Madras, Chennai-600 025 India

Abstract: The crystal structure of (E) - (2-chlorophenyl) (phenyl) methanone O-benzyl oxime (C₃₀H₁₆ClNO). The compound crystallizes in Monoclinic P2₁/n space group with unit cell parameters at 296(2) K as follows: a = 11.3109(7)Å, b = 6.0701(4)Å, c = 24.4544(15)Å, α = 90°, β = 91.258(5)°, γ = 90°. Crystal data were collected using BRUKER SMART APEX II CCD X-ray diffractometer. The structure was solved by direct methods and refined on F² by full-matrix least-squares procedures to the final R₁ of 0.054 using SHELXL programs.

Key Words: chlorophenyl, methanone, oxime and crystal structure.


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