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

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Abstract: The crystal structure of(E) - (2-chlorophenyl) (phenyl) methanone O-benzyl oxime($C_{20}H_{16}ClNO$). The compound crystallizes in MonoclinicP21/nspace 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 F^2 by full-matrix least-squares procedures to the final R_1 of 0.054usingSHELXL programs.
Key Words:chlorophenyl, methanone, oxime and crystal structure.

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