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PHOTOSYNTHESIS AND CRYSTAL STRUCTURE OF 1-(2-CHLOROPHENYL)-3-(PHENYL (PHENYLIMINO) METHYL) UREA

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1-(2-Chlorophenyl)-3-(phenyl (phenylimino) methyl) urea has been synthesized and its structure was determined by X-ray diffraction. It crystallizes in the Triclinic system, space group P-1, with the cell parameters $a=7.3393(8)$ Å, $b=15.1656(17)$ Å, $c=16.5059(19)$ Å, $\alpha=106.102(2)^\circ$, $\beta=90.961(2)^\circ$, $\gamma=99.851(2)^\circ$, $V=1735.1(3)$ Å³ and $Z=4$. The crystal structure has two independent molecules in the asymmetric unit and is stabilized by intermolecular N-H...O hydrogen bond and intramolecular N-H...N hydrogen bond.