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4-(4-Chlorophenyl)-8-methyl-2-oxo-1,2,3,4,4a,5,6,7-octahydroquinoline-3-carbonitrile

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Abstract: The six-membered *N*-heterocyclic ring of title compound, C₁₇H₁₇ClN₂O, is fused with a methyl-substituted cyclohexene ring. The nitrogen-bearing ring has an envelope conformation with the benzene ring-bearing C atom lying 0.432 (6) Å out of the plane defined by the other five atoms (r.m.s. deviation 0.011 Å); its benzene substituent is aligned at 84.7 (1)° to the latter plane. The cyclohexene ring adopts a half-chair conformation. In the crystal, two molecules are linked about a center of inversion by pairs of N-H...O hydrogen bonds, generating dimers. An ethylene portion is disordered over two orientations in a 1:1 ratio. The crystal studied was a non-merohedral twin with a 15.3 (1)% minor component.