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Crystal structure analysis of N,2-diphenylacetamide

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Abstract: The crystal structure of N,2-diphenylacetamide ($C_{28}H_{26}N_2O_2$). The compound crystallizes in Orthorhombic Pna21 space group with unit cell parameters at 296(2) K as follows: $a = 9.1034(5) \text{ \AA}$, $b = 10.552(6) \text{ \AA}$, $c = 11.769(8) \text{ \AA}$, $\alpha = \beta = \gamma = 90^\circ$. 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 0.060 using SHELXL programs.

Key Words: acetamide and crystal structure.

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