1-(5-Bromo-4-phenyl-1,3-thiazol-2-yl)- pyrrolidin-2-one

Hussein Ibrahim Ismail El Subbagh, Hazem A. Ghabbour, Adnan A. Kadi, Hussein I. El-Subbagh, Tze Shyang Chiac and Hoong-Kun Fun

Professor

Abstract

The asymmetric unit of the title compound, C_{13}H_{11}BrN_{2}O_{2}, consists of two crystallographically independent molecules (A and B). In each molecule, the pyrrolidine ring adopts an envelope conformation with a methylene C atom as the flap atom. In molecule A, the central thiazole ring makes a dihedral angle of 36.69 (11)° with the adjacent phenyl ring, whereas the corresponding angle is 36.85 (12)° in molecule B. The pyrrolidine ring is slightly twisted from the thiazole ring, with C—N—C—N torsion angles of 4.8 (3)° and 3.0 (4)° in molecules A and B, respectively. In the crystal, C—H···π and π—π [centroid-to-centroid distance = 3.7539 (14) Å] interactions are observed. The crystal studied was a pseudomerohedral twin with twin law (100 010 101) and a refined component ratio of 0.7188 (5):0.2812 (5).

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