

The crystal structure of the hydrogen bonded molecular adduct thiobisphthalimide diphenylamine

Manriquez, V.

Diaz, C.

Copaja, S.

Gonzalez, G.

The structure of the complex (PHL)₂S. HN(C₆H₅)₂ has been determined by single-crystal X-ray diffraction methods. The compound crystallizes in the triclinic system, space group P 1, with unit cell dimensions $a = 896.1$, $b = 1730.8$, $c = 846.7$ pm; $\alpha = 88.66^\circ$, $\beta = 115.66^\circ$, $\gamma = 93.98^\circ$ and $Z = 2$.

In the adduct the thiobisphthalimide molecule is bonded to the diphenylamine through a C=O...HN hydrogen bonding. UV-visible data reveal some charge transfer between the donor HN(C₆H₅)₂ and the acceptor (PHL)₂S. © 1991, Taylor & Francis Group, LLC. All rights reserved.