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Key indicators

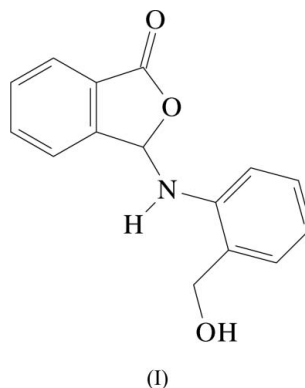
Single-crystal X-ray study
 $T = 296$ K
Mean $\sigma(\text{C}-\text{C}) = 0.002$ Å
 R factor = 0.035
 wR factor = 0.092
Data-to-parameter ratio = 13.0For details of how these key indicators were automatically derived from the article, see <http://journals.iucr.org/e>.

3-[2-(Hydroxymethyl)anilino]isobenzofuran-1(3H)-one

The crystal structure of the title compound, $\text{C}_{15}\text{H}_{13}\text{NO}_3$, is stabilized by inversion-related $\text{N}-\text{H}\cdots\text{O}$, $\text{O}-\text{H}\cdots\text{O}$ and two $\text{C}-\text{H}\cdots\text{O}$ intermolecular hydrogen bonds. These hydrogen bonds generate edge-fused $R_2^1(7)$, $R_2^2(6)$, $R_2^1(7)$ and $R_4^1(28)$ ring motifs. The phthalide part of the molecule is planar and the dihedral angle between the phthalide group and the benzene ring is $68.76(6)^\circ$.

Comment

As part of a continuing study of the interplay between molecular conformation and supramolecular aggregation in 3-substituted phthalides, we now report the structure of the title compound, 3-[2-(hydroxymethyl)phenylamino]isobenzofuran-1(3H)-one, (I) (Fig. 1).



The geometry of the molecule of (I) does not show any significant differences from the average geometry found for 3-anilinoisobenzofuran-1(3H)-ones (Odabaşoğlu & Büyükgüngör, 2006, 2007) (Table 1).

The phthalide group (C1–C8/O2) is planar, the largest deviation from the mean plane being $0.013(1)$ Å for atom C1. The dihedral angle between the mean planes of the phthalide group and the phenyl ring is $68.76(6)^\circ$.

The crystal packing of (I) is stabilized by inversion-related $\text{N}-\text{H}\cdots\text{O}$, $\text{O}-\text{H}\cdots\text{O}$ and $\text{C}-\text{H}\cdots\text{O}$ intermolecular hydrogen bonds (Table 2). The $\text{C}5-\text{H}5\cdots\text{O}2^{\text{iii}}$ intermolecular hydrogen bonds generate $C(7)$ chains. Parallel chains are linked *via* $\text{N}-\text{H}\cdots\text{O}$, $\text{O}-\text{H}\cdots\text{O}$ and $\text{C}-\text{H}\cdots\text{O}$ hydrogen bonds and generate centrosymmetric $R_2^1(7)$, $R_2^2(6)$, $R_2^1(7)$ and $R_4^1(28)$ ring motifs (Fig. 2) (Etter, 1990).

Experimental

Compound (I) was prepared as described by Odabaşoğlu & Büyükgüngör (2007), using phthaldehydic acid and aminobenzyl alcohol as

Received 21 March 2007
Accepted 26 March 2007

3-Substituted phthalides. Part XXV. Part XXIV: Odabaşoğlu & Büyükgüngör (2007).

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