# organic compounds

V = 1773.83 (7) Å<sup>3</sup>

 $0.30 \times 0.30 \times 0.10 \ \text{mm}$ 

3090 measured reflections

1745 independent reflections

1590 reflections with  $I > 2\sigma(I)$ 

Cu Ka radiation  $\mu = 0.67 \text{ mm}^{-1}$ 

T = 100 K

 $R_{\rm int} = 0.015$ 

Z = 8

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# 2-[(Indan-1-ylidene)amino]ethanol

Abdulrahman O. Al-Youbi,<sup>a</sup> Abdullah M. Asiri,<sup>a,b</sup> Hassan M. Faidallah,<sup>a</sup> Khalid A. Alamry<sup>a</sup> and Seik Weng Ng<sup>c,a</sup>\*

<sup>a</sup>Chemistry Department, Faculty of Science, King Abdulaziz University, PO Box 80203 Jeddah, Saudi Arabia, <sup>b</sup>Center of Excellence for Advanced Materials Research, King Abdulaziz University, PO Box 80203 Jeddah, Saudi Arabia, and <sup>c</sup>Department of Chemistry, University of Malaya, 50603 Kuala Lumpur, Malaysia Correspondence e-mail: seikweng@um.edu.my

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Key indicators: single-crystal X-ray study; T = 100 K; mean  $\sigma$ (C–C) = 0.002 Å; R factor = 0.037; wR factor = 0.099; data-to-parameter ratio = 14.3.

The five-membed ring of the title compound,  $C_{11}H_{13}NO$ , that is fused with the aromatic ring is approximately planar (r.m.s. deviation = 0.037 Å) despite the presence of the  $sp^3$ -hybridized ethylene linkage. The hydroxy group of the N-bound hydroxyethyl chain serves as hydrogen-bond donor to the azomethine N atom of an adjacent molecule, generating a hydrogen-bonded C2-symmetric dimer.

## **Related literature**

The related C<sub>13</sub>H<sub>13</sub>NO amine is a reagent in the synthesis of pharmaceuticals, see: Stange et al. (1957).



## **Experimental**

#### Crystal data

| C II NO                         |  |
|---------------------------------|--|
| $C_{11}H_{13}NO$                |  |
| $M_r = 175.22$                  |  |
| Monoclinic, $C2/c$              |  |
| a = 16.0207 (4)  Å              |  |
| <i>b</i> = 9.2002 (2) Å         |  |
| c = 13.0600 (3) Å               |  |
| $\beta = 112.855 \ (3)^{\circ}$ |  |

#### Data collection

Agilent SuperNova Dual diffractometer with an Atlas detector Absorption correction: multi-scan

(CrysAlis PRO; Agilent, 2010)  $T_{\min} = 0.825, T_{\max} = 0.937$ 

#### Refinement

ł

S

1

1

| $R[F^2 > 2\sigma(F^2)] = 0.037$ | H atoms treated by a mixture of                            |
|---------------------------------|--|
| $vR(F^2) = 0.099$               | independent and constrained                                |
| S = 1.02                        | refinement   |
| 745 reflections                 | $\Delta \rho_{\rm max} = 0.29 \ {\rm e} \ {\rm \AA}^{-3}$  |
| 22 parameters                   | $\Delta \rho_{\rm min} = -0.21 \ {\rm e} \ {\rm \AA}^{-3}$ |

## Table 1

Hydrogen-bond geometry (Å, °).

| $D - H \cdots A$   | D-H             | $H \cdot \cdot \cdot A$ | $D \cdots A$ | $D - \mathbf{H} \cdot \cdot \cdot A$ |
|--------------------|-----------------|-------------------------|--------------|--------------------------------------|
| $O1-H1\cdots N1^i$ | 0.91 (2)        | 1.91 (2)                | 2.820 (1)    | 173 (2)                              |
| Symmetry code: (i) | -x + 1, v, -z + | 1                       |              |                                      |

Data collection: CrysAlis PRO (Agilent, 2010); cell refinement: CrysAlis PRO; data reduction: CrysAlis PRO; program(s) used to solve structure: SHELXS97 (Sheldrick, 2008); program(s) used to refine structure: SHELXL97 (Sheldrick, 2008); molecular graphics: X-SEED (Barbour, 2001); software used to prepare material for publication: publCIF (Westrip, 2010).

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: BT5608).

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