# organic compounds

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# (*E*)-2-{[(2-(Trifluoromethyl)phenyl]iminomethyl}phenol

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Key indicators: single-crystal X-ray study; T = 296 K; mean  $\sigma$ (C–C) = 0.005 Å; R factor = 0.037; wR factor = 0.084; data-to-parameter ratio = 7.5.

In the crystal of the title compound,  $C_{14}H_{10}F_3NO$ , intramolecular  $O-H\cdots N$  and  $O-H\cdots F$  hydrogen bonds generate S(6) and S(10) intramolecular hydrogen-bonded rings. The dihedral angle between the planes of the aromatic rings is 13.00 (14)°.

#### **Related literature**

For related structures, see: Odabaşoğlu *et al.* (2003, 2005); Albayrak *et al.* (2012); Temel *et al.* (2006). For ring motifs, see: Bernstein *et al.* (1995). For azomethine dye applications, see: Williams (1972); Elizbarashvili *et al.* (2007); Taggi *et al.* (2002); Ichijima & Kobayashi (2005); Calligaris *et al.* (1972); Hadjoudis *et al.* (1987). For the synthesis of the title molecule, see: Odabaşoğlu *et al.* (2003).



#### Experimental

Crystal data

 $\begin{array}{l} C_{14}H_{10}F_{3}\text{NO}\\ M_{r}=265.23\\ \text{Orthorhombic, }Pca2_{1}\\ a=17.9907\ (18)\ \text{\AA}\\ b=5.0898\ (4)\ \text{\AA}\\ c=13.2564\ (10)\ \text{\AA} \end{array}$ 

 $V = 1213.88 (18) Å^{3}$  Z = 4Mo K\alpha radiation  $\mu = 0.12 \text{ mm}^{-1}$  T = 296 K $0.73 \times 0.48 \times 0.27 \text{ mm}$ 

#### Data collection

Stoe IPDS II diffractometer Absorption correction: integration (X-RED32; Stoe & Cie, 2002)  $T_{min} = 0.932, T_{max} = 0.966$ 

#### Refinement

$R[F^2 > 2\sigma(F^2)] = 0.037$	
$vR(F^2) = 0.084$	
S = 1.07	
318 reflections	
76 parameters	
restraint	
H atoms treated by a mixture of	
independent and constrained	
refinement	

9185 measured reflections 2519 independent reflections 1827 reflections with  $I > 2\sigma(I)$  $R_{int} = 0.038$ 

 $\begin{array}{l} \Delta \rho_{max} = 0.11 \ e \ \mathring{A}^{-3} \\ \Delta \rho_{min} = -0.15 \ e \ \mathring{A}^{-3} \\ Absolute \ structure: \ 1201 \ measured \\ Friedel \ pairs \ were \ merged, \\ because \ the \ compound \ is \ a \ weak \\ anomalous \ scatterer \end{array}$ 

## Table 1

Hydrogen-bond geometry (Å, °).

$D - H \cdots A$	D-H	$H \cdot \cdot \cdot A$	$D \cdots A$	$D - \mathbf{H} \cdots A$
$\begin{array}{c} O1 - H13 \cdots N1 \\ O1 - H13 \cdots F3 \end{array}$	0.82 (5)	1.88 (5)	2.622 (3)	149 (4)
	0.82 (5)	2.58 (4)	3.179 (3)	131 (4)

Data collection: X-AREA (Stoe & Cie, 2002); cell refinement: X-AREA; data reduction: X-RED32 (Stoe & Cie, 2002); program(s) used to solve structure: SHELXS97 (Sheldrick, 2008); program(s) used to refine structure: SHELXL97 (Sheldrick, 2008); molecular graphics: ORTEP-3 (Farrugia, 1997); software used to prepare material for publication: WinGX (Farrugia, 1999).

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: BH2411).

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# supplementary materials

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## (E)-2-{[(2-(Trifluoromethyl)phenyl]iminomethyl}phenol

## Hakkı Yasin Odabaşoğlu, Orhan Büyükgüngör, Osman Ozan Avinç and Mustafa Odabaşoğlu

#### Comment

Most azmethine dyes are known to have biological activities and have been used as antimicrobial, antifungal, antitumor, antitoxic, anti-inflammatory and as herbicides (Williams, 1972; Elizbarashvili *et al.*, 2007). In industry, they have a wide range of applications such as dyes and pigments with luminescent properties (Taggi *et al.*, 2002). Azmethine dyes are known to be among the most important dyes because of their wide applications, including color photographic systems, dye diffusion thermal transfer print systems and others (Ichijima & Kobayashi, 2005). In addition, azmethine dyes have been used widely as ligands in the field of coordination chemistry (Calligaris *et al.*, 1972). *o*-Hydroxy azmethine dyes are characterized by a strong intramolecular hydrogen bond. These compounds are of interest because of their thermochromism and photochromism in the solid state, which can involve reversible intramolecular proton transfer from an O atom to the neighboring N atom. It was proposed on the basis of thermochromic and photochromism are non-planar (Hadjoudis *et al.*, 1987). Taking in account these important features of the *o*-hydroxy azomethine dyes, we aimed to investigate the intra- and/or intermolecular interactions and the conformation of the title compound, (*E*)-2-[(2-(trifluoro-methyl)phenylimino)methyl]phenol, by X-ray crystallography.

o-Hydroxy azomethine dyes can exist in three tautomeric structures, as enol (Odabaşoğlu *et al.*, 2005), keto (Albayrak *et al.*, 2012) and zwitterionic (Temel *et al.*, 2006) forms in the solid state. In the title compound, the enol tautomer is favoured over the keto and zwitterionic forms (Fig. 1 and Table 1), and there is an intramolecular O1—H13···N1 hydrogen bond (Table 2). The molecule is almost planar, with a dihedral angle of 13.00 (14)° between C1···C6 and C8···C13 rings. The O—H···N hydrogen-bonded ring is planar and is coupled with the phenylene ring [dihedral angle is 0.8 (6)°]. The crystal packing is stabilized by O—H···N, O—H···F and C—H···O hydrogen bond interactions. O1—H13···N1 and O1—H13···F3 hydrogen bonds generate *S*(10) ring motif which includes the *S*(6) ring (Bernstein *et al.*, 1995). In addition, C10—H10···O1 hydrogen bond generate *C*(9) chain (Fig. 2) and a three-dimensional network (Fig. 3).

#### Experimental

The title molecule was prepared as described by Odabaşoğlu *et al.* (2003), using 2-trifluoromethylaniline and salicylaldehyde as starting materials. Crystals were obtained from an ethyl alcohol solution by slow evaporation (yield 92%, m.p. 338 K).

#### Refinement

H atom bonded to O1 was located in a difference map and refined isotropically. Constrained bond lengths and isotropic U parameters for aromatic C—H: 0.93 Å and  $U_{iso}(H) = 1.2U_{eq}(C)$ .

### **Computing details**

Data collection: *X-AREA* (Stoe & Cie, 2002); cell refinement: *X-AREA* (Stoe & Cie, 2002); data reduction: *X-RED32* (Stoe & Cie, 2002); program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *ORTEP-3* (Farrugia, 1997); software used to prepare material for publication: *WinGX* (Farrugia, 1999).



#### Figure 1

A view of the title molecule with displacement ellipsoids at the 40% probability level.



### Figure 2

Part of the crystal structure, showing the formation of S(6), S(10) rings and C(9) chain motifs. H atoms not involved in hydrogen bonds have been omitted for clarity [Symmetry code: (i) 1 - x, y - 1, z - 1/2].



#### Figure 3

A packing diagram with hydrogen bonds drawn as dashed lines. H atoms not involved in hydrogen bonds have been omitted for clarity.

#### (E)-2-{[(2-(Trifluoromethyl)phenyl]iminomethyl}phenol

#### Crystal data

C<sub>14</sub>H<sub>10</sub>F<sub>3</sub>NO  $M_r = 265.23$ Orthorhombic,  $Pca2_1$ Hall symbol: P 2c -2ac a = 17.9907 (18) Å b = 5.0898 (4) Å c = 13.2564 (10) Å V = 1213.88 (18) Å<sup>3</sup> Z = 4F(000) = 544

#### Data collection

Stoe IPDS II
diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
Detector resolution: 0 pixels mm <sup>-1</sup>
rotation method scans
Absorption correction: integration
(X-RED32; Stoe & Cie, 2002)
$T_{\min} = 0.932, \ T_{\max} = 0.966$

#### Refinement

Refinement on  $F^2$ HLeast-squares matrix: full $R[F^2 > 2\sigma(F^2)] = 0.037$ H $wR(F^2) = 0.084$ S = 1.07wS = 1.07w1318 reflections176 parameters( $\Delta$ 1 restraint $\Delta$ 0 constraints $\Delta$ Primary atom site location: structure-invariant $\Delta$ direct methodsSecondary atom site location: difference Fouriermap $\Delta$ 

 $D_x = 1.451 \text{ Mg m}^{-3}$ Melting point: 338 K Mo K $\alpha$  radiation,  $\lambda = 0.71073 \text{ Å}$ Cell parameters from 15262 reflections  $\theta = 1.5-28.0^{\circ}$  $\mu = 0.12 \text{ mm}^{-1}$ T = 296 KPrism, yellow  $0.73 \times 0.48 \times 0.27 \text{ mm}$ 

9185 measured reflections 2519 independent reflections 1827 reflections with  $I > 2\sigma(I)$  $R_{int} = 0.038$  $\theta_{max} = 26.5^\circ, \theta_{min} = 2.3^\circ$  $h = -22 \rightarrow 22$  $k = -6 \rightarrow 6$  $l = -16 \rightarrow 16$ 

Hydrogen site location: inferred from neighbouring sites H atoms treated by a mixture of independent and constrained refinement  $w = 1/[\sigma^2(F_o^2) + (0.0476P)^2]$ where  $P = (F_o^2 + 2F_c^2)/3$  $(\Delta/\sigma)_{max} < 0.001$  $\Delta\rho_{max} = 0.11$  e Å<sup>-3</sup>  $\Delta\rho_{min} = -0.15$  e Å<sup>-3</sup> Absolute structure: 1201 measured Friedel pairs were merged, because the compound is a weak anomalous scatterer

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters  $(Å^2)$ 

	x	y	Ζ	$U_{ m iso}$ */ $U_{ m eq}$	
C1	0.45358 (12)	1.0002 (5)	0.7729 (2)	0.0617 (6)	
C2	0.43472 (14)	1.0230 (5)	0.6716 (2)	0.0698 (7)	
C3	0.38195 (19)	1.2075 (6)	0.6431 (3)	0.0864 (9)	
H3	0.3689	1.2237	0.5755	0.104*	
C4	0.34888 (18)	1.3658 (6)	0.7134 (4)	0.0915 (11)	
H4	0.3140	1.4894	0.6928	0.110*	
C5	0.36636 (17)	1.3453 (6)	0.8136 (3)	0.0868 (10)	
Н5	0.3433	1.4530	0.8608	0.104*	
C6	0.41827 (16)	1.1637 (6)	0.8435 (3)	0.0793 (8)	
H6	0.4302	1.1486	0.9115	0.095*	
C7	0.50948 (15)	0.8157 (5)	0.8071 (2)	0.0648 (6)	

117	0.5212	0.0100	0 9752	0.079*
П/	0.3213	0.8108	0.8733	0.078
C8	0.59564 (12)	0.4792 (5)	0.7836 (2)	0.0612 (6)
C9	0.60401 (16)	0.4129 (6)	0.8843 (3)	0.0780 (8)
H9	0.5728	0.4895	0.9319	0.094*
C10	0.65715 (18)	0.2370 (7)	0.9161 (3)	0.0885 (9)
H10	0.6627	0.2004	0.9844	0.106*
C11	0.70208 (16)	0.1155 (6)	0.8462 (3)	0.0891 (10)
H11	0.7380	-0.0038	0.8672	0.107*
C12	0.69381 (17)	0.1702 (5)	0.7458 (3)	0.0811 (9)
H12	0.7235	0.0845	0.6987	0.097*
C13	0.64133 (14)	0.3532 (5)	0.7135 (2)	0.0644 (7)
C14	0.63575 (17)	0.4148 (6)	0.6040 (2)	0.0769 (8)
N1	0.54272 (12)	0.6611 (4)	0.74774 (15)	0.0622 (5)
01	0.46592 (15)	0.8714 (5)	0.60028 (16)	0.0918 (7)
F1	0.68225 (14)	0.2715 (5)	0.54915 (16)	0.1234 (8)
F2	0.65111 (13)	0.6642 (4)	0.58376 (16)	0.1042 (7)
F3	0.56880 (12)	0.3721 (4)	0.56487 (15)	0.1069 (7)
H13	0.496 (3)	0.776 (8)	0.628 (4)	0.107 (14)*

Atomic displacement parameters  $(Å^2)$ 

	$U^{11}$	U <sup>22</sup>	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
C1	0.0553 (12)	0.0619 (14)	0.0680 (16)	-0.0060 (11)	0.0034 (13)	0.0022 (13)
C2	0.0679 (15)	0.0666 (15)	0.0750 (18)	-0.0014 (13)	-0.0018 (15)	0.0004 (15)
C3	0.087 (2)	0.0808 (19)	0.091 (2)	0.0044 (16)	-0.0121 (18)	0.0104 (18)
C4	0.0713 (18)	0.0710 (16)	0.132 (4)	0.0094 (15)	-0.001 (2)	0.005 (2)
C5	0.0714 (18)	0.0773 (19)	0.112 (3)	0.0054 (15)	0.0153 (18)	-0.0065 (18)
C6	0.0755 (17)	0.0786 (17)	0.084 (2)	0.0003 (15)	0.0129 (16)	-0.0033 (17)
C7	0.0632 (14)	0.0720 (15)	0.0593 (14)	-0.0052 (13)	0.0005 (12)	-0.0027 (13)
C8	0.0525 (12)	0.0627 (14)	0.0683 (16)	-0.0069 (11)	-0.0001 (13)	-0.0031 (13)
C9	0.0711 (16)	0.090 (2)	0.0725 (18)	0.0070 (15)	0.0017 (14)	0.0019 (17)
C10	0.085 (2)	0.092 (2)	0.088 (2)	0.0053 (18)	-0.0119 (19)	0.0170 (18)
C11	0.0669 (17)	0.0803 (19)	0.120 (3)	0.0050 (14)	-0.008(2)	0.016 (2)
C12	0.0658 (16)	0.0713 (16)	0.106 (3)	-0.0003 (15)	0.0126 (16)	-0.0036 (18)
C13	0.0545 (13)	0.0611 (13)	0.0774 (17)	-0.0084 (12)	0.0061 (12)	-0.0056 (14)
C14	0.0745 (17)	0.0743 (18)	0.082 (2)	-0.0008 (14)	0.0190 (16)	-0.0080 (16)
N1	0.0569 (11)	0.0677 (11)	0.0618 (13)	0.0011 (10)	0.0009 (9)	-0.0008 (11)
01	0.1086 (16)	0.0980 (16)	0.0688 (14)	0.0250 (14)	-0.0129 (12)	-0.0076 (12)
F1	0.1361 (18)	0.1374 (17)	0.0967 (15)	0.0357 (14)	0.0433 (14)	-0.0107 (13)
F2	0.1301 (16)	0.0950 (13)	0.0874 (13)	-0.0185 (11)	0.0113 (11)	0.0147 (10)
F3	0.0988 (13)	0.1415 (18)	0.0803 (12)	-0.0191 (11)	-0.0043 (10)	-0.0233 (14)

Geometric parameters (Å, °)

C1—C2	1.390 (4)	C8—C13	1.397 (4)	
C1—C6	1.404 (4)	C8—N1	1.411 (3)	
C1—C7	1.449 (4)	C9—C10	1.376 (4)	
C2—O1	1.343 (4)	С9—Н9	0.9300	
C2—C3	1.388 (4)	C10—C11	1.376 (5)	
C3—C4	1.369 (5)	C10—H10	0.9300	

С3—Н3	0.9300	C11—C12	1.368 (5)
C4—C5	1.368 (6)	C11—H11	0.9300
C4—H4	0.9300	C12—C13	1.394 (4)
C5—C6	1.372 (5)	C12—H12	0.9300
С5—Н5	0.9300	C13—C14	1.488 (5)
С6—Н6	0.9300	C14—F2	1.326 (3)
C7—N1	1.263 (3)	C14—F1	1.327 (4)
С7—Н7	0.9300	C14—F3	1.329 (4)
C8—C9	1.385 (4)	O1—H13	0.82 (5)
C2—C1—C6	119.0 (2)	C10—C9—C8	121.9 (3)
C2—C1—C7	121.7 (2)	С10—С9—Н9	119.0
C6—C1—C7	119.3 (3)	С8—С9—Н9	119.0
01-C2-C3	118.9 (3)	C9—C10—C11	119.7 (3)
01 - C2 - C1	122.0(2)	C9—C10—H10	120.2
$C_{3} - C_{2} - C_{1}$	1191(3)	$C_{11}$ $C_{10}$ $H_{10}$	120.2
C4 - C3 - C2	120.7(4)	C12-C11-C10	120.2 120.0(3)
C4 - C3 - H3	119.7	C12 $C11$ $H11$	120.0 (3)
$C_{2}$ $C_{3}$ H3	119.7	C10-C11-H11	120.0
$C_{2} = C_{3} = C_{4}$	121 1 (3)	C11 $C12$ $C13$	120.0 120.6(3)
$C_{2} = C_{4} = C_{2}$	119 5	C11 - C12 - H12	119 7
$C_3 - C_4 - H_4$	119.5	C13 - C12 - H12	119.7
$C_{4}$	119.3	C12 - C13 - C8	119.7 120.1(3)
$C_{4} = C_{5} = C_{0}$	119.2 (5)	C12 - C13 - C14	120.1(3)
$C_{4}$	120.4	C12 - C13 - C14	119.1(3) 120.8(2)
$C_{0}$	120.4 121.0(3)	$E_{0} = C_{10} = C_{14}$	120.8(2) 106.5(2)
C5 C6 H6	121.0 (3)	$F_2 = C_1 4 = F_1$ $F_2 = C_1 4 = F_2$	100.3(2) 105.4(3)
$C_{1}$ $C_{6}$ $H_{6}$	119.5	$F_2 - C_1 4 - F_3$	105.4(3)
C1 - C0 - H0	119.3 122.5(2)	F1 - C14 - F3 F2 - C14 - C12	103.3(3)
NI = C7 = U7	122.3 (2)	$F_2 - C_1 4 - C_{13}$	112.0(3)
NI = C / = H /	110.7	F1 - C14 - C13	112.1(3)
CI = C / = H /	110.7 117.7(2)	$\begin{array}{c} \mathbf{F}5 \\ \mathbf{C}7 \\ \mathbf{N}1 \\ \mathbf{C}9 \\ \mathbf{C}7 \end{array}$	114.0(2)
$C_{9} = C_{8} = C_{13}$	11/.7(2)	$C = N = C \delta$	121.2(2)
$C_{2}$ $C_{3}$ $N_{1}$	123.9 (2)	C2—01—H13	107 (3)
C13-C8-N1	118.3 (2)		
C6-C1-C2-01	-179.5(2)	C10-C11-C12-C13	1.5 (5)
C7-C1-C2-O1	1.6 (4)	C11—C12—C13—C8	-1.2(4)
C6-C1-C2-C3	0.4(4)	C11-C12-C13-C14	177.8(3)
C7-C1-C2-C3	-1786(3)	C9 - C8 - C13 - C12	-0.8(3)
$01 - C^2 - C^3 - C^4$	-180.0(3)	N1 - C8 - C13 - C12	-1794(2)
C1 - C2 - C3 - C4	0.2(5)	C9 - C8 - C13 - C14	-179.8(3)
$C_{2} = C_{3} = C_{4} = C_{5}$	-0.6(5)	N1 - C8 - C13 - C14	17.3(3)
$C_{2} = C_{3} = C_{4} = C_{5} = C_{6}$	0.0(3)	C12 - C13 - C14 - F2	-117.6(3)
$C_{4}^{-}C_{5}^{-}C_{6}^{-}C_{1}^{1}$	0.4(3)	C8 - C13 - C14 - F2	614(3)
$C^{2}$	-0.6(4)	C12 - C13 - C14 - F1	25(A)
$C_{1}^{-}C_{1}^{-}C_{2}^{-}C_{3}^{-}C$	178 4 (2)	C12 C13 C14 F1	-1785(7)
$C_{2}$ $C_{1}$ $C_{2}$ $N_{1}$	$-1.9(\Delta)$	C12-C13-C14-F3	170.3(2) 122.3(3)
$C_{6}$ $C_{1}$ $C_{7}$ $N_{1}$	179.2 (7)	C8 - C12 - C14 - F2	-58.7(3)
$C_1 = C_1 $	25(4)	C1 - C7 - N1 - C8	-1785(2)
010 00 00 0000	2·2 (T)		1/0.2(2)

# supplementary materials

N1-C8-C9-C10	-179.0 (3)	C9—C8—N1—C7	14.7 (4)
C8—C9—C10—C11	-2.2 (5)	C13—C8—N1—C7	-166.9 (2)
C9—C10—C11—C12	0.1 (5)		

Hydrogen-bond geometry (Å, °)

D—H···A	D—H	H···A	D····A	D—H···A
O1—H13…N1	0.82 (5)	1.88 (5)	2.622 (3)	149 (4)
O1—H13…F3	0.82 (5)	2.58 (4)	3.179 (3)	131 (4)
C10—H10…O1 <sup>i</sup>	0.93	2.80	3.342 (5)	118

Symmetry code: (i) –*x*+1, –*y*+1, *z*+1/2.