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# Crystal structure of 2-cyano-N-(furan-2ylmethyl)acetamide. Corrigendum 

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#### Abstract

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The address of one of the authors in the paper by Subhadramma et al. [Acta Cryst. (2015), E71, o455-o456] is corrected.

In the paper by Subhadramma et al. (2015), the address of the first author, Shivanna Subhadramma, was given incorrectly. The correct address should be 'Department of Physics, Dr M. G. R. Educational and Research Institute University, Maduravoyal, Chennai, India', and is also given above.

## References

Subhadramma, S., Siddaraju, B. P., Naveen, C., Saravanan, J. \& Gayathri, D. (2015). Acta Cryst. E71, o455-o456.

CRYSTALLOGRAPHIC COMMUNICATIONS

## Crystal structure of 2-cyano-N-(furan-2ylmethyl)acetamide

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In the title compound, $\mathrm{C}_{8} \mathrm{H}_{8} \mathrm{~N}_{2} \mathrm{O}_{2}$, the acetamide unit is inclined to the furan ring by 76.7 (1) ${ }^{\circ}$. In the crystal, molecules are linked by $\mathrm{N}-\mathrm{H} \cdots \mathrm{O}$ and $\mathrm{C}-\mathrm{H} \cdots \mathrm{O}$ hydrogen bonds, generating $C(4)$ chains along [100]. The carbonyl O atom is a bifurcated acceptor and an $R_{2}^{1}(6)$ ring is formed.

Keywords: crystal structure; furan; acetamide; cyano; bifurcated hydrogen bonding..

CCDC reference: 1404031

## 1. Related literature

For examples of biological properties of furan derivatives, see: Anupam et al. (2011). For the biological activities of some heterocyclic derivatives containing the acetamide moiety, see: Fallah-Tafti et al. (2011); Shams et al. (2011). For a related acetamide structure, see: Jasinski et al. (2013). For the crystal structure of similar compound, 2-cyano- N -furfuryl-3-(2-furyl)acrylamide, see: Pomés Hernández et al. (1996).


## 2. Experimental

2.1. Crystal data
$\mathrm{C}_{8} \mathrm{H}_{8} \mathrm{~N}_{2} \mathrm{O}_{2}$
$M_{r}=164.16$
Monoclinic, $P 2_{1} / c$
$V=825.06(14) \AA^{3}$
$Z=4$
Mo $K \alpha$ radiation
$b=14.9495$ (16) $\AA$
$\mu=0.10 \mathrm{~mm}^{-1}$
$T=293 \mathrm{~K}$
$0.3 \times 0.2 \times 0.2 \mathrm{~mm}$
$c=11.4969$ (11) $\AA$
$\beta=93.482(3)^{\circ}$

### 2.2. Data collection

Bruker APEXII CCD diffractometer
Absorption correction: multi-scan (SADABS; Bruker, 2004)

7302 measured reflections 1455 independent reflections 1175 reflections with $I>2 \sigma(I)$ $R_{\text {int }}=0.027$

## 109 parameters

H -atom parameters constrained
$\Delta \rho_{\text {max }}=0.14 \mathrm{e}^{\AA^{-3}}$
$\Delta \rho_{\min }=-0.13 \mathrm{e}^{-3}$

Table 1
Hydrogen-bond geometry ( $\AA,^{\circ}$ ).

| $D-\mathrm{H} \cdots A$ | $D-\mathrm{H}$ | $\mathrm{H} \cdots A$ | $D \cdots A$ | $D-\mathrm{H} \cdots A$ |
| :--- | :--- | :--- | :--- | :--- |
| $\mathrm{~N} 1-\mathrm{H} 1 \cdots \mathrm{O}^{2}$ | ${ }^{\mathrm{i}}$ | 0.86 | 1.99 | $2.846(1)$ |
| $\mathrm{C}^{\mathrm{i}}-\mathrm{H} 7 A \cdots \mathrm{O}^{\mathrm{i}}$ | 0.97 | 2.55 | $3.395(2)$ | 175 |

Symmetry code: (i) $x+1, y, z$.
Data collection: APEX2 (Bruker, 2004); cell refinement: APEX2 and SAINT (Bruker, 2004); data reduction: SAINT and XPREP (Bruker, 2004); program(s) used to solve structure: SHELXS2014/7 (Sheldrick, 2008); program(s) used to refine structure: SHELXL2014/7 (Sheldrick, 2015); molecular graphics: PLATON (Spek, 2009); software used to prepare material for publication: SHELXL2014/7 and PLATON.

## Acknowledgements

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Supporting information for this paper is available from the IUCr electronic archives (Reference: SU5145).

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## supporting information

Acta Cryst. (2015). E71, o455-o456 [doi:10.1107/S2056989015010488]

## Crystal structure of 2-cyano- N -(furan-2-ylmethyl)acetamide

## Shivanna Subhadramma, Budanur Papaiah Siddaraju, Chandra Naveen, Janardhanan Saravanan and Dasararaju Gayathri

## S1. Structural commentary

Furan derivatives are gaining importance for their wide pharmacological activities like antibacterial, antitumor, antiinflammatory, antifungal, and analgesic (Anupam et al., 2011). Acetamide derivatives have been shown to possess various biological properties, and recently, the synthesis and biological activities of some heterocyclic derivatives containing the acetamide moiety have been reported (Fallah-Tafti et al., 2011; Shams et al., 2011). In continuation of our work on the synthesis of acetamide derivatives (Jasinski et al., 2013), we report herein on the synthesis and crystal structure of the title compound.
The title molecule, Fig. 1, is Z-shaped. The furan ring ( $\mathrm{O} 1 / \mathrm{C} 1-\mathrm{C} 4$ ) is nearly perpendicular with the mean plane of the acetamide group ( $\mathrm{O} 2 / \mathrm{N} 1 / \mathrm{C} 6 / \mathrm{C} 7$ ) with a dihedral angle of $76.7(1)^{\circ}$. The acetonitrile moiety is inclined to the mean plane of the acetamide group by 54 (6) ${ }^{\circ}$. The bond lengths and angles are close to those reported for a very similar structure, 2-cyano- $N$-furfuryl-3-(2-furyl)acrylamide (Pomés Hernández et al., 1996).
The crystal packing is stabilized by $\mathrm{N}-\mathrm{H} \cdots \mathrm{O}$ and $\mathrm{C}-\mathrm{H} \cdots \mathrm{O}$ hydrogen bonds (Table 1 and Fig. 2). Atoms N 1 and C 7 act as donors to a bifurcated acceptor O -atom, O 2 , generating $\mathrm{C}(4)$ chains along the $a$-axis and, as a consequence, an $R_{2}{ }^{1}(6)$ ring is formed.

## S2. Synthesis and crystallization

An equimolar mixture of furfuryl amine and ethyl cyano acetate were mixed in a conical flask and the mixture was heated under microwave irradiation at 700 W for 3 min with an interval of 20 seconds each time. The mixture was then poured to a beaker and cooled giving a solid whose size reduced, washed with ethanol. It was recrystallized from an acetone/water mixture (7:3), yielding colourless block-like crystals on slow evaporation of the solvent.

## S3. Refinement

Crystal data, data collection and structure refinement details are summarized in Table 2. The NH and C-bound H atoms were included in calculated positions and refined using a riding model: $\mathrm{N}-\mathrm{H}=0.86 \AA, \mathrm{C}-\mathrm{H}=0.93-0.97 \AA$ with $U_{\text {iso }}(\mathrm{H})=1.2 U_{\text {eq }}(\mathrm{N}, \mathrm{C})$.


Figure 1
The molecular structure of the title compound, with atom labelling. The displacement ellipsoids are drawn at the $30 \%$ probability level.


Figure 2
A view along the $b$ axis of the crystal packing of the title compound. The hydrogen bonds are shown as dashed lines (see Table 1 for details).

## 2-Cyano- $N$-(furan-2-ylmethyl)acetamide

| Crystal data |  |
| :--- | :--- |
| $\mathrm{C}_{8} \mathrm{H}_{8} \mathrm{~N}_{2} \mathrm{O}_{2}$ | $F(000)=344$ |
| $M_{r}=164.16$ | $D_{\mathrm{x}}=1.322 \mathrm{Mg} \mathrm{m}^{-3}$ |
| Monoclinic, $P 2{ }_{1} / c$ | Mo Ka radiation, $\lambda=0.71073 \AA$ |
| $a=4.8033(4) \AA$ | Cell parameters from 1455 reflections |
| $b=14.9495(16) \AA$ | $\theta=2.2-25.0^{\circ}$ |
| $c=11.4969(11) \AA$ | $\mu=0.10 \mathrm{~mm}^{-1}$ |
| $\beta=93.482(3)^{\circ}$ | $T=293 \mathrm{~K}$ |
| $V=825.06(14) \AA^{3}$ | Block, colourless |
| $Z=4$ | $0.3 \times 0.2 \times 0.2 \mathrm{~mm}$ |

## Data collection

## Bruker APEXII CCD

diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
Detector resolution: 8.0216 pixels $\mathrm{mm}^{-1}$
$\omega$ and $\varphi$ scan
Absorption correction: multi-scan
(SADABS; Bruker, 2004)
$T_{\min }=0.946, T_{\text {max }}=0.986$

## Refinement

Refinement on $F^{2}$
Least-squares matrix: full
$R\left[F^{2}>2 \sigma\left(F^{2}\right)\right]=0.037$
$w R\left(F^{2}\right)=0.111$
$S=1.09$
1455 reflections
109 parameters
0 restraints

$$
\begin{aligned}
& 7302 \text { measured reflections } \\
& 1455 \text { independent reflections } \\
& 1175 \text { reflections with } I>2 \sigma(I) \\
& R_{\text {int }}=0.027 \\
& \theta_{\max }=25.0^{\circ}, \theta_{\min }=2.2^{\circ} \\
& h=-5 \rightarrow 5 \\
& k=-17 \rightarrow 17 \\
& l=-12 \rightarrow 13
\end{aligned}
$$

```
Hydrogen site location: inferred from
    neighbouring sites
H -atom parameters constrained
\(w=1 /\left[\sigma^{2}\left(F_{\mathrm{o}}{ }^{2}\right)+(0.0542 P)^{2}+0.1342 P\right]\)
    where \(P=\left(F_{0}{ }^{2}+2 F_{\mathrm{c}}{ }^{2}\right) / 3\)
\((\Delta / \sigma)_{\text {max }}<0.001\)
\(\Delta \rho_{\text {max }}=0.14 \mathrm{e} \AA^{-3}\)
\(\Delta \rho_{\text {min }}=-0.13 \mathrm{e} \AA^{-3}\)
```


## Special details

Geometry. All e.s.d.'s (except the e.s.d. in the dihedral angle between two 1.s. planes) are estimated using the full covariance matrix. The cell e.s.d.'s are taken into account individually in the estimation of e.s.d.'s in distances, angles and torsion angles; correlations between e.s.d.'s in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell e.s.d.'s is used for estimating e.s.d.'s involving l.s. planes.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters ( $\hat{A}^{2}$ )

|  | $x$ | $y$ | $z$ | $U_{\text {iso }} * / U_{\text {eq }}$ |
| :--- | :--- | :--- | :--- | :--- |
| C1 | $0.6009(4)$ | $0.71318(14)$ | $0.26789(17)$ | $0.0705(5)$ |
| H1A | 0.7123 | 0.7616 | 0.2502 | $0.085^{*}$ |
| C2 | $0.6246(4)$ | $0.65991(17)$ | $0.37051(16)$ | $0.0816(6)$ |
| H2 | 0.7549 | 0.6667 | 0.4330 | $0.098^{*}$ |
| C3 | $0.4271(5)$ | $0.59926(15)$ | $0.36003(17)$ | $0.0777(6)$ |
| H3 | 0.3942 | 0.5558 | 0.4154 | $0.093^{*}$ |
| C4 | $0.3883(3)$ | $0.68024(10)$ | $0.20223(13)$ | $0.0483(4)$ |
| C5 | $0.2563(3)$ | $0.70388(11)$ | $0.08709(13)$ | $0.0575(4)$ |
| H5A | 0.0559 | 0.7057 | 0.0925 | $0.069^{*}$ |
| H5B | 0.3170 | 0.7633 | 0.0660 | $0.069^{*}$ |
| C6 | $0.1307(3)$ | $0.59915(10)$ | $-0.07049(12)$ | $0.0443(4)$ |
| C7 | $0.2372(3)$ | $0.54182(11)$ | $-0.16707(12)$ | $0.0506(4)$ |
| H7A | 0.4373 | 0.5489 | -0.1694 | $0.061^{*}$ |
| H7B | 0.1983 | 0.4793 | -0.1522 | $0.061^{*}$ |
| C8 | $0.1019(4)$ | $0.56845(11)$ | $-0.27806(15)$ | $0.0590(4)$ |
| N1 | $0.3219(2)$ | $0.64139(9)$ | $-0.00467(10)$ | $0.0467(3)$ |
| H1 | 0.4942 | 0.6316 | -0.0164 | $0.056^{*}$ |
| N2 | $-0.0079(5)$ | $0.59089(12)$ | $-0.36283(16)$ | $0.0947(6)$ |
| O1 | $0.2779(2)$ | $0.60909(8)$ | $0.25698(10)$ | $0.0649(4)$ |
| O2 | $-0.1197(2)$ | $0.60352(9)$ | $-0.05760(11)$ | $0.0713(4)$ |
|  |  |  |  |  |

Atomic displacement parameters $\left(\AA^{2}\right)$

|  | $U^{11}$ | $U^{22}$ | $U^{\beta 3}$ | $U^{12}$ | $U^{13}$ | $U^{23}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| C1 | $0.0617(10)$ | $0.0790(13)$ | $0.0714(12)$ | $-0.0144(9)$ | $0.0087(9)$ | $-0.0277(10)$ |
| C2 | $0.0772(13)$ | $0.1118(17)$ | $0.0535(11)$ | $0.0191(13)$ | $-0.0147(9)$ | $-0.0260(11)$ |
| C3 | $0.1019(15)$ | $0.0806(14)$ | $0.0500(10)$ | $0.0116(12)$ | $-0.0012(10)$ | $-0.0002(9)$ |
| C4 | $0.0465(8)$ | $0.0503(9)$ | $0.0491(8)$ | $0.0010(7)$ | $0.0112(6)$ | $-0.0087(7)$ |
| C5 | $0.0624(10)$ | $0.0576(10)$ | $0.0535(9)$ | $0.0132(8)$ | $0.0110(7)$ | $-0.0042(7)$ |
| C6 | $0.0312(7)$ | $0.0565(9)$ | $0.0455(8)$ | $0.0070(6)$ | $0.0038(6)$ | $0.0080(7)$ |
| C7 | $0.0404(7)$ | $0.0614(10)$ | $0.0497(9)$ | $0.0038(7)$ | $0.0004(6)$ | $-0.0016(7)$ |
| C8 | $0.0713(11)$ | $0.0528(10)$ | $0.0526(10)$ | $-0.0083(8)$ | $0.0015(8)$ | $0.0013(8)$ |
| N1 | $0.0339(6)$ | $0.0611(8)$ | $0.0458(7)$ | $0.0072(5)$ | $0.0079(5)$ | $-0.0030(6)$ |
| N2 | $0.1407(18)$ | $0.0789(12)$ | $0.0611(10)$ | $-0.0056(11)$ | $-0.0226(11)$ | $0.0125(9)$ |
| O1 | $0.0713(8)$ | $0.0667(8)$ | $0.0568(7)$ | $-0.0098(6)$ | $0.0037(6)$ | $0.0023(6)$ |
| O2 | $0.0304(6)$ | $0.1024(10)$ | $0.0816(9)$ | $0.0076(6)$ | $0.0088(5)$ | $-0.0081(7)$ |
|  |  |  |  |  |  |  |

Geometric parameters ( $A,{ }^{\circ}$ )

| C1-C4 | 1.328 (2) | C5-H5A | 0.9700 |
| :---: | :---: | :---: | :---: |
| C1-C2 | 1.422 (3) | C5-H5B | 0.9700 |
| C1-H1A | 0.9300 | C6-O2 | 1.2238 (16) |
| C2-C3 | 1.314 (3) | C6-N1 | 1.3162 (18) |
| C2-H2 | 0.9300 | C6-C7 | 1.516 (2) |
| C3-O1 | 1.355 (2) | C7-C8 | 1.452 (2) |
| C3-H3 | 0.9300 | C7-H7A | 0.9700 |
| C4-O1 | 1.3602 (19) | C7-H7B | 0.9700 |
| C4-C5 | 1.476 (2) | C8-N2 | 1.131 (2) |
| C5-N1 | 1.4579 (19) | N1-H1 | 0.8600 |
| $\mathrm{C} 4-\mathrm{C} 1-\mathrm{C} 2$ | 106.51 (18) | C4-C5-H5B | 108.9 |
| $\mathrm{C} 4-\mathrm{C} 1-\mathrm{H} 1 \mathrm{~A}$ | 126.7 | H5A-C5-H5B | 107.7 |
| $\mathrm{C} 2-\mathrm{C} 1-\mathrm{H} 1 \mathrm{~A}$ | 126.7 | O2-C6-N1 | 124.26 (14) |
| $\mathrm{C} 3-\mathrm{C} 2-\mathrm{C} 1$ | 106.82 (17) | O2-C6-C7 | 119.83 (13) |
| $\mathrm{C} 3-\mathrm{C} 2-\mathrm{H} 2$ | 126.6 | N1-C6-C7 | 115.90 (12) |
| $\mathrm{C} 1-\mathrm{C} 2-\mathrm{H} 2$ | 126.6 | C8-C7-C6 | 109.59 (13) |
| C2-C3-O1 | 110.29 (18) | C8-C7-H7A | 109.8 |
| C2-C3-H3 | 124.9 | C6-C7-H7A | 109.8 |
| $\mathrm{O} 1-\mathrm{C} 3-\mathrm{H} 3$ | 124.9 | C8-C7-H7B | 109.8 |
| C1-C4-O1 | 109.60 (15) | C6-C7-H7B | 109.8 |
| C1-C4-C5 | 134.05 (17) | H7A-C7-H7B | 108.2 |
| O1-C4-C5 | 116.34 (13) | N2-C8-C7 | 178.0 (2) |
| N1-C5-C4 | 113.30 (13) | C6-N1-C5 | 123.31 (12) |
| N1-C5-H5A | 108.9 | C6-N1-H1 | 118.3 |
| C4-C5-H5A | 108.9 | C5-N1-H1 | 118.3 |
| N1-C5-H5B | 108.9 | $\mathrm{C} 3-\mathrm{O} 1-\mathrm{C} 4$ | 106.78 (14) |
| $\mathrm{C} 4-\mathrm{C} 1-\mathrm{C} 2-\mathrm{C} 3$ | -0.1 (2) | N1-C6-C7-C8 | -125.10 (14) |
| $\mathrm{C} 1-\mathrm{C} 2-\mathrm{C} 3-\mathrm{O} 1$ | 0.5 (2) | $\mathrm{O} 2-\mathrm{C} 6-\mathrm{N} 1-\mathrm{C} 5$ | -4.5 (2) |

## supporting information

| $\mathrm{C} 2-\mathrm{C} 1-\mathrm{C} 4-\mathrm{O} 1$ | $-0.39(19)$ | $\mathrm{C} 7-\mathrm{C} 6-\mathrm{N} 1-\mathrm{C} 5$ | $175.82(13)$ |
| :--- | :--- | :--- | :--- |
| $\mathrm{C} 2-\mathrm{C} 1-\mathrm{C} 4-\mathrm{C} 5$ | $-179.82(17)$ | $\mathrm{C} 4-\mathrm{C} 5-\mathrm{N} 1-\mathrm{C} 6$ | $124.16(16)$ |
| $\mathrm{C} 1-\mathrm{C} 4-\mathrm{C} 5-\mathrm{N} 1$ | $105.9(2)$ | $\mathrm{C} 2-\mathrm{C} 3-\mathrm{O} 1-\mathrm{C} 4$ | $-0.7(2)$ |
| $\mathrm{O} 1-\mathrm{C} 4-\mathrm{C} 5-\mathrm{N} 1$ | $-73.48(17)$ | $\mathrm{C} 1-\mathrm{C} 4-\mathrm{O} 1-\mathrm{C} 3$ | $0.70(18)$ |
| $\mathrm{O} 2-\mathrm{C} 6-\mathrm{C} 7-\mathrm{C} 8$ | $55.19(19)$ | $\mathrm{C} 5-\mathrm{C} 4-\mathrm{O} 1-\mathrm{C} 3$ | $-179.76(14)$ |

Hydrogen-bond geometry ( $A,{ }^{\circ}$ )

| $D — \mathrm{H} \cdots A$ | $D-\mathrm{H}$ | $\mathrm{H} \cdots A$ | $D \cdots A$ | $D-\mathrm{H} \cdots A$ |
| :--- | :--- | :--- | :--- | :--- |
| $\mathrm{~N} 1 — \mathrm{H} 1 \cdots \mathrm{O} 2^{\mathrm{i}}$ | 0.86 | 1.99 | $2.846(1)$ | 175 |
| $\mathrm{C} 7 — \mathrm{H} 7 A \cdots \mathrm{O}^{\mathrm{i}}$ | 0.97 | 2.55 | $3.395(2)$ | 145 |

Symmetry code: (i) $x+1, y, z$.

