Acta Crystallographica Section E

## Structure Reports

Online
ISSN 1600-5368

# A second monoclinic polymorph of 2-(diformylmethylidene)-3,3-dimethyl-2,3-dihydro-1 H-indole 

Hamid Khaledi, ${ }^{\text {a }}$ Siti Munirah Saharin, ${ }^{\text {a }}$ Hapipah Mohd Ali, ${ }^{\text {a* }}$ Ward T. Robinson ${ }^{\text {a }}$ and Mahmood A. Abdulla ${ }^{\text {b }}$<br>${ }^{\text {a }}$ Department of Chemistry, University of Malaya, 50603 Kuala Lumpur, Malaysia, and ${ }^{\mathbf{b}}$ Department of Molecular Medicine, University of Malaya, 50603 Kuala Lumpur, Malaysia<br>Correspondence e-mail: hapipah@um.edu.my

Received 10 September 2009; accepted 23 September 2009

Key indicators: single-crystal X-ray study; $T=103 \mathrm{~K}$; mean $\sigma(\mathrm{C}-\mathrm{C})=0.003 \AA$; $R$ factor $=0.044 ; w R$ factor $=0.103$; data-to-parameter ratio $=12.4$.

The crystal structure of the title compound, $\mathrm{C}_{13} \mathrm{H}_{13} \mathrm{NO}_{2}$, is a polymorph of the structure first reported by Helliwell et al. [Acta Cryst. (2006), E62, 0737-o738]. It is also monoclinic (space group $P 2_{1} / c$ ), but with completely different cell constants. The molecular conformations of these polymorphs differ by a $180^{\circ}$ rotation of one formyl group. The present molecule is planar [maximum deviation 0.089 (2) $\AA$ ] with the exception of the two methyl groups which lie on either side of the plane. There are strong intra- and intermolecular N $\mathrm{H} \cdots \mathrm{O}$ hydrogen bonds. The latter link pairs of molecules across crystallographic centers of symmetry. Two aldehyde O atoms are brought close together $[2.896(4) \AA$ in this arrangement but are not hydrogen bonded. In the earlier polymorph, one formyl group is rotated by $180^{\circ}$ to yield intermolecular hydrogen bonding and an infinite polymeric chain. The other formyl group is involved in the same intramolecular hydrogen bonding as has been found here.

## Related literature

For the crystal structure of the other polymorph, see: Helliwell et al. (2006). For a discussion of crystal growth conditions that can affect the occurrence of polymorphs, see: Hulliger et al. (1994). For chemistry involving 2-(diformylmethylidene)-3,3-dimethyl-2,3-dihydro- $1 H$-indole, see: Baradarani et al. (2006).


## Experimental

Crystal data
$\mathrm{C}_{13} \mathrm{H}_{13} \mathrm{NO}_{2}$
$V=1072.8(3) \AA^{3}$
$M_{r}=215.24$
Monoclinic, $P 2_{1} / c$
$a=6.9877$ (10) $\AA$
$b=18.688$ (3) $\AA$
$c=8.2154$ (12) $\AA$
$\beta=90.291$ (3) ${ }^{\circ}$

## Data collection

Bruker APEXII CCD diffractometer
Absorption correction: multi-scan (SADABS; Sheldrick, 1996)
$T_{\text {min }}=0.950, T_{\text {max }}=0.997$
$Z=4$
Mo $K \alpha$ radiation
$\mu=0.09 \mathrm{~mm}^{-1}$
$T=103 \mathrm{~K}$
$0.57 \times 0.37 \times 0.03 \mathrm{~mm}$

## Refinement

$R\left[F^{2}>2 \sigma\left(F^{2}\right)\right]=0.044$

> H atoms treated by a mixture of independent and constrained refinement
> $\Delta \rho_{\max }=0.26$ e $\AA^{-3}$
> $\Delta \rho_{\min }=-0.22$ e $^{-3}$

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

| $D-\mathrm{H} \cdots A$ | $D-\mathrm{H}$ | $\mathrm{H} \cdots A$ | $D \cdots A$ | $D-\mathrm{H} \cdots A$ |
| :--- | :--- | :--- | :--- | :--- |
| $\mathrm{~N} 1-\mathrm{H} 1 \cdots \mathrm{O} 1$ | $0.93(3)$ | $1.93(3)$ | $2.642(3)$ | $132(2)$ |
| $\mathrm{N} 1-\mathrm{H} 1 \cdots 1^{\mathrm{i}}$ | $0.93(3)$ | $2.19(3)$ | $2.946(2)$ | $138(2)$ |

Symmetry code: (i) $-x+1,-y+1,-z$.
Data collection: APEX2 (Bruker, 2007); cell refinement: SAINT (Bruker, 2007); data reduction: SAINT; program(s) used to solve structure: SHELXS97 (Sheldrick, 2008); program(s) used to refine structure: SHELXL97 (Sheldrick, 2008); molecular graphics: SHELXTL (Sheldrick, 2008); software used to prepare material for publication: SHELXL97 and publCIF (Westrip, 2009).

The authors thank the University of Malaya for funding this study (UMRG grant No. RG136/09HTM).

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: OM2278).

## References

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## supporting information

Acta Cryst. (2009). E65, o2585 [doi:10.1107/S1600536809038495]

## A second monoclinic polymorph of 2-(diformylmethylidene)-3,3-dimethyl-2,3-dihydro-1 $H$-indole

Hamid Khaledi, Siti Munirah Saharin, Hapipah Mohd Ali, Ward T. Robinson and Mahmood A. Abdulla

## S1. Experimental

A solution of trimethylindolenine, $(5.57 \mathrm{~g}, 35 \mathrm{mmol})$, in anhydrous dimethylformamide $(15 \mathrm{ml})$ was cooled in an ice bath. A solution of phosphoryl chloride ( 10 ml ) in dimethylformamide $(15 \mathrm{ml})$ was added dropwise with stirring over a period of 1 h at below 283 K . The cooling bath was removed and the reaction mixture was stirred at 363 K for 2 h . The resulting solution was poured onto ice water ( 400 ml ), the pH was adjusted to 9.0 by the addition of aqueous $\mathrm{NaOH}(35 \%)$ whereupon the solid product was precipitated. It was filtered, washed with hot water, dried and recrystallized from nhexane/ethyl acetate to give a yellow solid in $4.35 \mathrm{~g}, 58 \%$ yield. Further recrystallization, from ethanol/water (3:1 $v / v$ ), led to a mixture of lath and prismatic habits. The prism cell dimensions confirmed the form reported earlier but the laths appeared new.

## S2. Refinement

C-bound hydrogen atoms were placed at calculated positions $(\mathrm{C}-\mathrm{H}=0.95-0.98 \AA)$ and refined as riding with $\mathrm{U}(\mathrm{H})=$ $1.2-1.5$ times $U_{\mathrm{eq}}(\mathrm{C})$. The N -bound hydrogen atom was located from a difference map, and freely refined to give a bond length of 0.93 (3) $\AA$.


## Figure 1

A perspective drawing of two molecules of the title compound showing dimerization through intermolecular H-bonds. Displacement ellipsoids are drawn at the $30 \%$ probability level. Symmetry code: $A=1-x, 1-y,-z$

## 2-(diformylmethylidene)-3,3-dimethyl-2,3-dihydro-1H-indole

## Crystal data

$\mathrm{C}_{13} \mathrm{H}_{13} \mathrm{NO}_{2}$
$M_{r}=215.24$
Monoclinic, $P 2{ }_{1} / c$
Hall symbol: -P 2ybc
$a=6.9877$ (10) $\AA$
$b=18.688$ (3) $\AA$
$c=8.2154(12) \AA$
$\beta=90.291(3)^{\circ}$
$V=1072.8(3) \AA^{3}$
$Z=4$

## Data collection

Bruker APEXII CCD
diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
$\omega$ scans
Absorption correction: multi-scan
(SADABS; Sheldrick, 1996)
$T_{\min }=0.950, T_{\text {max }}=0.997$
$F(000)=456$
$D_{\mathrm{x}}=1.333 \mathrm{Mg} \mathrm{m}^{-3}$
Mo $K \alpha$ radiation, $\lambda=0.71073 \AA$
Cell parameters from 864 reflections
$\theta=2.2-24.7^{\circ}$
$\mu=0.09 \mathrm{~mm}^{-1}$
$T=103 \mathrm{~K}$
Lath, yellow
$0.57 \times 0.37 \times 0.03 \mathrm{~mm}$

4763 measured reflections
1865 independent reflections
1123 reflections with $I>2 \sigma(I)$
$R_{\text {int }}=0.072$
$\theta_{\text {max }}=25.1^{\circ}, \theta_{\text {min }}=2.2^{\circ}$
$h=-5 \rightarrow 8$
$k=-21 \rightarrow 22$
$l=-9 \rightarrow 9$

## Refinement

Refinement on $F^{2}$
Least-squares matrix: full
$R\left[F^{2}>2 \sigma\left(F^{2}\right)\right]=0.044$
$w R\left(F^{2}\right)=0.103$
$S=0.92$
1865 reflections
151 parameters
0 restraints
Primary atom site location: structure-invariant direct methods

> Secondary atom site location: difference Fourier map
> Hydrogen site location: inferred from neighbouring sites
> H atoms treated by a mixture of independent and constrained refinement
> $w=1 /\left[\sigma^{2}\left(F_{0}^{2}\right)+(0.0424 P)^{2}\right]$
> where $P=\left(F_{\mathrm{o}}{ }^{2}+2 F_{\mathrm{c}}{ }^{2}\right) / 3$
> $(\Delta / \sigma)_{\text {max }}<0.001$
> $\Delta \rho_{\text {max }}=0.26$ e $\AA^{-3}$
> $\Delta \rho_{\text {min }}=-0.22$ e $\AA^{-3}$

## Special details

Geometry. All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.
Refinement. Refinement of $F^{2}$ against ALL reflections. The weighted $R$-factor $w R$ and goodness of fit $S$ are based on $F^{2}$, conventional $R$-factors $R$ are based on $F$, with $F$ set to zero for negative $F^{2}$. The threshold expression of $F^{2}>\sigma\left(F^{2}\right)$ is used only for calculating $R$-factors(gt) etc. and is not relevant to the choice of reflections for refinement. $R$-factors based on $F^{2}$ are statistically about twice as large as those based on $F$, and $R$ - factors based on ALL data will be even larger.

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

|  | $x$ | $y$ | $z$ | $U_{\text {iso }}{ }^{*} / U_{\text {eq }}$ |
| :--- | :--- | :--- | :--- | :--- |
| O1 | $0.4035(3)$ | $0.49657(9)$ | $0.1554(2)$ | $0.0308(5)$ |
| O2 | $0.4628(3)$ | $0.65460(9)$ | $0.6032(2)$ | $0.0346(5)$ |
| N1 | $0.7133(3)$ | $0.57750(10)$ | $0.1457(2)$ | $0.0192(5)$ |
| H1 | $0.637(4)$ | $0.5445(14)$ | $0.092(3)$ | $0.054(9)^{*}$ |
| C1 | $0.6569(3)$ | $0.60337(11)$ | $0.2893(3)$ | $0.0195(5)$ |
| C2 | $0.8061(3)$ | $0.65754(12)$ | $0.3488(3)$ | $0.0199(6)$ |
| C3 | $0.9518(3)$ | $0.65385(12)$ | $0.2146(3)$ | $0.0197(6)$ |
| C4 | $1.1227(3)$ | $0.68961(12)$ | $0.1934(3)$ | $0.0225(6)$ |
| H4 | 1.1673 | 0.7228 | 0.2725 | $0.027^{*}$ |
| C5 | $1.2281(4)$ | $0.67584(12)$ | $0.0535(3)$ | $0.0253(6)$ |
| H5 | 1.3459 | 0.7002 | 0.0373 | $0.030^{*}$ |
| C6 | $1.1650(4)$ | $0.62761(12)$ | $-0.0621(3)$ | $0.0259(6)$ |
| H6 | 1.2405 | 0.6190 | -0.1560 | $0.031^{*}$ |
| C7 | $0.9931(3)$ | $0.59154(12)$ | $-0.0434(3)$ | $0.0221(6)$ |
| H7 | 0.9479 | 0.5585 | -0.1226 | $0.027^{*}$ |
| C8 | $0.8906(3)$ | $0.60609(11)$ | $0.0965(3)$ | $0.0196(5)$ |
| C9 | $0.4879(3)$ | $0.57998(12)$ | $0.3639(3)$ | $0.0192(6)$ |
| C10 | $0.3723(4)$ | $0.52662(12)$ | $0.2862(3)$ | $0.0258(6)$ |
| H10 | 0.2591 | 0.5128 | 0.3415 | $0.031^{*}$ |
| C11 | $0.4105(4)$ | $0.60552(13)$ | $0.5160(3)$ | $0.0257(6)$ |
| H11 | 0.3018 | 0.5801 | 0.5539 | $0.031^{*}$ |
| C12 | $0.7221(4)$ | $0.73372(12)$ | $0.3575(3)$ | $0.0262(6)$ |
| H12A | 0.8248 | 0.7679 | 0.3812 | $0.039^{*}$ |
| H12B | 0.6261 | 0.7359 | 0.4438 | $0.039^{*}$ |


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| H12C | 0.6621 | 0.7458 | 0.2530 | $0.039^{*}$ |
| C13 | $0.8926(3)$ | $0.63454(12)$ | $0.5131(3)$ | $0.0241(6)$ |
| H13A | 0.9436 | 0.5859 | 0.5039 | $0.036^{*}$ |
| H13B | 0.7932 | 0.6357 | 0.5968 | $0.036^{*}$ |
| H13C | 0.9961 | 0.6674 | 0.5433 | $0.036^{*}$ |

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

|  | $U^{11}$ | $U^{22}$ | $U^{\beta 3}$ | $U^{12}$ | $U^{13}$ | $U^{23}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| O1 | $0.0343(11)$ | $0.0320(10)$ | $0.0261(10)$ | $-0.0086(9)$ | $-0.0002(8)$ | $-0.0040(8)$ |
| O2 | $0.0367(12)$ | $0.0377(11)$ | $0.0295(10)$ | $-0.0023(9)$ | $0.0058(9)$ | $-0.0071(9)$ |
| N1 | $0.0143(12)$ | $0.0217(11)$ | $0.0215(11)$ | $-0.0051(9)$ | $0.0010(9)$ | $-0.0019(9)$ |
| C1 | $0.0213(15)$ | $0.0178(12)$ | $0.0192(12)$ | $0.0006(11)$ | $-0.0039(11)$ | $0.0024(10)$ |
| C2 | $0.0234(15)$ | $0.0187(12)$ | $0.0176(12)$ | $-0.0011(11)$ | $0.0010(11)$ | $-0.0001(10)$ |
| C3 | $0.0223(15)$ | $0.0183(12)$ | $0.0185(12)$ | $0.0021(11)$ | $0.0003(11)$ | $0.0028(10)$ |
| C4 | $0.0205(15)$ | $0.0230(13)$ | $0.0239(13)$ | $-0.0023(11)$ | $-0.0024(11)$ | $0.0018(10)$ |
| C5 | $0.0198(15)$ | $0.0262(14)$ | $0.0299(14)$ | $-0.0006(11)$ | $0.0033(12)$ | $0.0067(11)$ |
| C6 | $0.0292(17)$ | $0.0253(13)$ | $0.0233(13)$ | $0.0041(12)$ | $0.0055(12)$ | $0.0039(11)$ |
| C7 | $0.0227(15)$ | $0.0237(13)$ | $0.0201(12)$ | $-0.0017(11)$ | $0.0009(11)$ | $0.0000(10)$ |
| C8 | $0.0208(14)$ | $0.0157(12)$ | $0.0223(12)$ | $0.0028(11)$ | $0.0000(11)$ | $0.0031(10)$ |
| C9 | $0.0154(14)$ | $0.0216(13)$ | $0.0204(12)$ | $-0.0019(11)$ | $-0.0005(11)$ | $0.0033(10)$ |
| C10 | $0.0235(16)$ | $0.0267(14)$ | $0.0271(14)$ | $-0.0004(12)$ | $0.0010(12)$ | $0.0077(11)$ |
| C11 | $0.0207(15)$ | $0.0278(14)$ | $0.0286(14)$ | $0.0045(12)$ | $-0.0003(12)$ | $0.0040(12)$ |
| C12 | $0.0313(16)$ | $0.0215(13)$ | $0.0259(13)$ | $0.0023(12)$ | $0.0020(12)$ | $-0.0006(10)$ |
| C13 | $0.0214(15)$ | $0.0301(14)$ | $0.0207(13)$ | $-0.0033(11)$ | $-0.0011(11)$ | $0.0016(10)$ |
|  |  |  |  |  |  |  |

Geometric parameters $\left(\AA,{ }^{\circ}\right)$

| $\mathrm{O} 1-\mathrm{C} 10$ | 1.233 (3) | C5-H5 | 0.9500 |
| :---: | :---: | :---: | :---: |
| O2-C11 | 1.219 (3) | C6-C7 | 1.387 (3) |
| N1-C1 | 1.336 (3) | C6-H6 | 0.9500 |
| N1-C8 | 1.410 (3) | C7-C8 | 1.384 (3) |
| N1-H1 | 0.93 (3) | C7-H7 | 0.9500 |
| C1-C9 | 1.403 (3) | C9-C10 | 1.431 (3) |
| C1-C2 | 1.531 (3) | C9-C11 | 1.445 (3) |
| C2-C3 | 1.506 (3) | C10-H10 | 0.9500 |
| C2-C13 | 1.538 (3) | C11-H11 | 0.9500 |
| $\mathrm{C} 2-\mathrm{C} 12$ | 1.542 (3) | C12-H12A | 0.9800 |
| C3-C4 | 1.380 (3) | C12-H12B | 0.9800 |
| C3-C8 | 1.384 (3) | C12-H12C | 0.9800 |
| C4-C5 | 1.392 (3) | C13-H13A | 0.9800 |
| C4-H4 | 0.9500 | C13-H13B | 0.9800 |
| C5-C6 | 1.380 (3) | C13-H13C | 0.9800 |
| $\mathrm{C} 1-\mathrm{N} 1-\mathrm{C} 8$ | 112.3 (2) | C6-C7-H7 | 121.7 |
| $\mathrm{C} 1-\mathrm{N} 1-\mathrm{H} 1$ | 119.3 (17) | C3-C8-C7 | 123.3 (2) |
| C8-N1-H1 | 128.4 (17) | $\mathrm{C} 3-\mathrm{C} 8-\mathrm{N} 1$ | 108.2 (2) |
| N1-C1-C9 | 121.7 (2) | C7-C8-N1 | 128.5 (2) |


| $\mathrm{N} 1-\mathrm{C} 1-\mathrm{C} 2$ | $108.5(2)$ |
| :--- | :--- |
| $\mathrm{C} 9-\mathrm{C} 1-\mathrm{C} 2$ | $129.8(2)$ |
| $\mathrm{C} 3-\mathrm{C} 2-\mathrm{C} 1$ | $101.40(18)$ |
| $\mathrm{C} 3-\mathrm{C} 2-\mathrm{C} 13$ | $111.46(19)$ |
| $\mathrm{C} 1-\mathrm{C} 2-\mathrm{C} 13$ | $111.06(18)$ |
| $\mathrm{C} 3-\mathrm{C} 2-\mathrm{C} 12$ | $109.57(18)$ |
| $\mathrm{C} 1-\mathrm{C} 2-\mathrm{C} 12$ | $111.51(19)$ |
| $\mathrm{C} 13-\mathrm{C} 2-\mathrm{C} 12$ | $111.43(18)$ |
| $\mathrm{C} 4-\mathrm{C} 3-\mathrm{C} 8$ | $119.2(2)$ |
| $\mathrm{C} 4-\mathrm{C} 3-\mathrm{C} 2$ | $131.2(2)$ |
| $\mathrm{C} 8-\mathrm{C} 3-\mathrm{C} 2$ | $109.6(2)$ |
| $\mathrm{C} 3-\mathrm{C} 4-\mathrm{C} 5$ | $118.4(2)$ |
| $\mathrm{C} 3-\mathrm{C} 4-\mathrm{H} 4$ | 120.8 |
| $\mathrm{C} 5-\mathrm{C} 4-\mathrm{H} 4$ | 120.8 |
| $\mathrm{C} 6-\mathrm{C} 5-\mathrm{C} 4$ | $121.4(2)$ |
| $\mathrm{C} 6-\mathrm{C} 5-\mathrm{H} 5$ | 119.3 |
| $\mathrm{C} 4-\mathrm{C} 5-\mathrm{H} 5$ | 119.3 |
| $\mathrm{C} 5-\mathrm{C} 6-\mathrm{C} 7$ | $121.0(2)$ |
| $\mathrm{C} 5-\mathrm{C} 6-\mathrm{H} 6$ | 119.5 |
| $\mathrm{C} 7-\mathrm{C} 6-\mathrm{H} 6$ | 119.5 |
| $\mathrm{C} 8-\mathrm{C} 7-\mathrm{C} 6$ | $116.7(2)$ |
| $\mathrm{C} 8-\mathrm{C} 7-\mathrm{H} 7$ | 121.7 |


| $\mathrm{C} 1-\mathrm{C} 9-\mathrm{C} 10$ | $119.8(2)$ |
| :--- | :--- |
| $\mathrm{C} 1-\mathrm{C} 9-\mathrm{C} 11$ | $126.5(2)$ |
| $\mathrm{C} 10-\mathrm{C} 9-\mathrm{C} 11$ | $113.8(2)$ |
| $\mathrm{O} 1-\mathrm{C} 10-\mathrm{C} 9$ | $127.1(2)$ |
| $\mathrm{O} 1-\mathrm{C} 10-\mathrm{H} 10$ | 116.4 |
| C9-C10-H10 | 116.4 |
| $\mathrm{O} 2-\mathrm{C} 11-\mathrm{C} 9$ | $130.1(2)$ |
| $\mathrm{O} 2-\mathrm{C} 11-\mathrm{H} 11$ | 114.9 |
| C9-C11-H11 | 114.9 |
| C2-C12-H12A | 109.5 |
| C2-C12-H12B | 109.5 |
| H12A-C12-H12B | 109.5 |
| C2-C12-H12C | 109.5 |
| H12A-C12-H12C | 109.5 |
| H12B-C12-H12C | 109.5 |
| C2-C13-H13A | 109.5 |
| C2-C13-H13B | 109.5 |
| H13A-C13-H13B | 109.5 |
| C2-C13-H13C | 109.5 |
| H13A-C13-H13C | 109.5 |
| H13B-C13-H13C | 109.5 |

Hydrogen-bond geometry (A, ${ }^{9}$ )

| $D — \mathrm{H} \cdots A$ | $D-\mathrm{H}$ | $\mathrm{H} \cdots A$ | $D \cdots A$ | $D-\mathrm{H} \cdots A$ |
| :--- | :--- | :--- | :--- | :--- |
| $\mathrm{~N} 1 — \mathrm{H} 1 \cdots \mathrm{O} 1$ | $0.93(3)$ | $1.93(3)$ | $2.642(3)$ | $132(2)$ |
| $\mathrm{N} 1 — \mathrm{H} 1 \cdots 1^{\mathrm{i}}$ | $0.93(3)$ | $2.19(3)$ | $2.946(2)$ | $138(2)$ |

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

