

## 2-Bromo-1-(4-methylphenyl)-3-phenyl-prop-2-en-1-one

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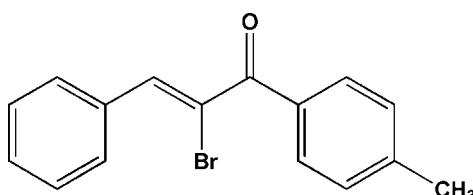
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Key indicators: single-crystal X-ray study;  $T = 100\text{ K}$ ; mean  $\sigma(\text{C}-\text{C}) = 0.004\text{ \AA}$ ;  $R$  factor = 0.042;  $wR$  factor = 0.091; data-to-parameter ratio = 23.7.

In the crystal structure of the title compound,  $\text{C}_{16}\text{H}_{13}\text{BrO}$ , the two benzene rings are twisted from each other with a dihedral angle of  $52.55(9)^\circ$ . Both an intramolecular  $\text{C}-\text{H}\cdots\text{Br}$  hydrogen bond, which generates an  $S(6)$  ring motif, and a short  $\text{Br}\cdots\text{O}$  contact [ $2.9907(19)\text{ \AA}$ ] may influence the conformation of the molecule. The crystal packing is stabilized by weak intermolecular  $\text{C}-\text{H}\cdots\text{O}$  interactions.

### Related literature

For related literature on chalcone derivatives, see: Fun *et al.* (2008); Patil *et al.* (2006, 2007). For related literature on experimental preparation, see: Shivarama Holla *et al.* (2006). For standard bond-length data, see: Allen *et al.* (1987). For graph-set analysis of hydrogen bonding, see: Bernstein *et al.* (1995).



### Experimental

#### Crystal data

$\text{C}_{16}\text{H}_{13}\text{BrO}$   
 $M_r = 301.17$

Orthorhombic,  $Pbca$   
 $a = 8.7192(2)\text{ \AA}$

$b = 11.5819(2)\text{ \AA}$   
 $c = 26.4769(6)\text{ \AA}$   
 $V = 2673.77(10)\text{ \AA}^3$   
 $Z = 8$

Mo  $K\alpha$  radiation  
 $\mu = 3.06\text{ mm}^{-1}$   
 $T = 100.0(1)\text{ K}$   
 $0.20 \times 0.20 \times 0.11\text{ mm}$

#### Data collection

Bruker SMART APEXII CCD area-detector diffractometer  
Absorption correction: multi-scan (*SADABS*; Bruker, 2005)  
 $T_{\min} = 0.556$ ,  $T_{\max} = 0.715$

14370 measured reflections  
3893 independent reflections  
2462 reflections with  $I > 2\sigma(I)$   
 $R_{\text{int}} = 0.070$

#### Refinement

$R[F^2 > 2\sigma(F^2)] = 0.041$   
 $wR(F^2) = 0.090$   
 $S = 1.00$   
3893 reflections

164 parameters  
H-atom parameters constrained  
 $\Delta\rho_{\text{max}} = 0.43\text{ e \AA}^{-3}$   
 $\Delta\rho_{\text{min}} = -0.54\text{ e \AA}^{-3}$

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

| $D-\text{H}\cdots A$                     | $D-\text{H}$ | $\text{H}\cdots A$ | $D\cdots A$ | $D-\text{H}\cdots A$ |
|--|--------------|--------------------|-------------|----------------------|
| $\text{Cl1}-\text{H1A}\cdots\text{O1}^1$ | 0.93         | 2.54               | 3.163 (3)   | 124                  |
| $\text{C11}-\text{H11A}\cdots\text{Br1}$ | 0.93         | 2.69               | 3.377 (3)   | 131                  |

Symmetry code: (i)  $-x + \frac{1}{2}, y + \frac{1}{2}, z$ .

Data collection: *APEX2* (Bruker, 2005); cell refinement: *APEX2*; data reduction: *SAINT* (Bruker, 2005); program(s) used to solve structure: *SHELXTL* (Sheldrick, 2008); program(s) used to refine structure: *SHELXTL*; molecular graphics: *SHELXTL*; software used to prepare material for publication: *SHELXTL* and *PLATON* (Spek, 2003).

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: LH2662).

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## **supplementary materials**

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## 2-Bromo-1-(4-methylphenyl)-3-phenylprop-2-en-1-one

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### Comment

As part of our crystallographic studies on chalcone derivatives (Fun *et al.*, 2008; Patil *et al.*, 2006, 2007) the title compound (I) was synthesized and its crystal structure is reported here.

In the crystal structure of the title compound (I), the bond lengths have normal values (Allen *et al.*, 1987). The two benzene rings (C1—C6 & C10—C15) are twisted from each other with the dihedral angle of 52.55 (9) $^{\circ}$ .

Both an intramolecular C—H $\cdots$  Br hydrogen bond, which generates an S(6) ring motif, and a short Br $\cdots$ O = 2.9907 (19) $\text{\AA}$  contact may influence the conformation of the molecule. The crystal packing is stabilized by weak C—H $\cdots$ O intermolecular interactions.

### Experimental

1-(4-methylphenyl)-3-phenylprop-2-en-1-one (1 mmol) was prepared by a literature procedure (Shivarama Holla *et al.*, 2006). To a solution of 1-(4-methylphenyl)-3-phenylprop-2-en-1-one (1 mmol) in chloroform (25 ml), bromine (1 mmol) was added slowly with stirring. After the completion of addition of bromine (1 mmol), the reaction mixture was stirred for 24 h. Excess of chloroform was distilled off and the precipitated 2,3-dibromo-1-(4-methylphenyl)-3-phenylpropan-1-one was filtered off and dried. A mixture of dibromopropanone (1 mmol) and triethylamine (1 mmol) in dry benzene (30 ml) was added and the resultant mixture was stirred for 24 h. The excess of solvent when removed under reduced pressure gave the title compound which crystallized from acetone by slow evaporation.

### Refinement

H atoms were positioned geometrically [C—H = 0.93 $\text{\AA}$  and CH<sub>3</sub>=0.96  $\text{\AA}$ ] and refined using a riding-model, with  $U_{\text{iso}}(\text{H}) = 1.2U_{\text{eq}}(\text{C})$  and  $1.5_{\text{eq}}(\text{C}_{\text{methyl}})$ . A rotating group model was used for the methyl groups.

### Figures

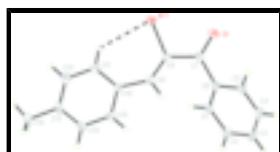


Fig. 1. The molecular structure of the title compound, showing 50% probability displacement ellipsoids and the atom numbering scheme.

# supplementary materials

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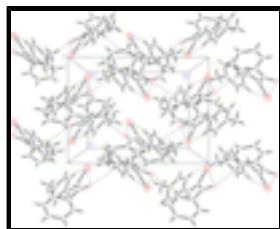


Fig. 2. The crystal packing of the title compound, viewed along the *c* axis. Hydrogen bonds and Br···O short contacts are shown as dashed lines.

(I)

## Crystal data

|                                     |   |
|-------------------------------------|---|
| C <sub>16</sub> H <sub>13</sub> BrO | $F_{000} = 1216$                          |
| $M_r = 301.17$                      | $D_x = 1.496 \text{ Mg m}^{-3}$           |
| Orthorhombic, <i>Pbca</i>           | Mo <i>K</i> $\alpha$ radiation            |
| Hall symbol: -P 2ac 2ab             | $\lambda = 0.71073 \text{ \AA}$           |
| $a = 8.7192 (2) \text{ \AA}$        | Cell parameters from 1664 reflections     |
| $b = 11.5819 (2) \text{ \AA}$       | $\theta = 2.8\text{--}23.7^\circ$         |
| $c = 26.4769 (6) \text{ \AA}$       | $\mu = 3.06 \text{ mm}^{-1}$              |
| $V = 2673.77 (10) \text{ \AA}^3$    | $T = 100.0 (1) \text{ K}$                 |
| $Z = 8$                             | Block, colourless                         |
|                                     | $0.20 \times 0.20 \times 0.11 \text{ mm}$ |

## Data collection

|  |  |
|--|--|
| Bruker SMART APEXII CCD area-detector diffractometer     | 3893 independent reflections           |
| Radiation source: fine-focus sealed tube                 | 2462 reflections with $I > 2\sigma(I)$ |
| Monochromator: graphite                                  | $R_{\text{int}} = 0.070$               |
| $T = 100.0(1) \text{ K}$                                 | $\theta_{\text{max}} = 30.1^\circ$     |
| $\varphi$ and $\omega$ scans                             | $\theta_{\text{min}} = 2.8^\circ$      |
| Absorption correction: multi-scan (SADABS; Bruker, 2005) | $h = -12 \rightarrow 9$                |
| $T_{\text{min}} = 0.556$ , $T_{\text{max}} = 0.715$      | $k = -16 \rightarrow 12$               |
| 14370 measured reflections                               | $l = -36 \rightarrow 16$               |

## Refinement

|                                 |   |
|---------------------------------|---|
| Refinement on $F^2$             | Secondary atom site location: difference Fourier map                      |
| Least-squares matrix: full      | Hydrogen site location: inferred from neighbouring sites                  |
| $R[F^2 > 2\sigma(F^2)] = 0.041$ | H-atom parameters constrained   |
| $wR(F^2) = 0.090$               | $w = 1/[\sigma^2(F_o^2) + (0.0317P)^2]$<br>where $P = (F_o^2 + 2F_c^2)/3$ |
| $S = 1.00$                      | $(\Delta/\sigma)_{\text{max}} < 0.001$                                    |
| 3893 reflections                | $\Delta\rho_{\text{max}} = 0.43 \text{ e \AA}^{-3}$                       |
| 164 parameters                  | $\Delta\rho_{\text{min}} = -0.54 \text{ e \AA}^{-3}$                      |

Primary atom site location: structure-invariant direct  
Extinction correction: none  
methods

### Special details

**Experimental.** The data was collected with the Oxford Cyrosystem Cobra low-temperature attachment.

**Geometry.** All e.s.d.'s (except the e.s.d. in the dihedral angle between two l.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.

**Refinement.** Refinement of  $F^2$  against ALL reflections. The weighted  $R$ -factor  $wR$  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  $F^2 > \sigma(F^2)$  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 ( $\text{\AA}^2$ )

|      | $x$         | $y$          | $z$           | $U_{\text{iso}}^*/U_{\text{eq}}$ |
|------|-------------|--------------|---------------|----------------------------------|
| Br1  | 0.13862 (3) | 0.42397 (2)  | 0.062535 (10) | 0.02216 (9)                      |
| O1   | 0.3082 (2)  | 0.38663 (17) | 0.15935 (7)   | 0.0253 (5)                       |
| C1   | 0.4236 (3)  | 0.6775 (2)   | 0.16809 (10)  | 0.0177 (6)                       |
| H1A  | 0.3563      | 0.7084       | 0.1444        | 0.021*                           |
| C2   | 0.4991 (4)  | 0.7501 (3)   | 0.20151 (10)  | 0.0228 (7)                       |
| H2A  | 0.4813      | 0.8292       | 0.2005        | 0.027*                           |
| C3   | 0.6008 (4)  | 0.7049 (3)   | 0.23638 (10)  | 0.0262 (7)                       |
| H3A  | 0.6512      | 0.7537       | 0.2588        | 0.031*                           |
| C4   | 0.6275 (4)  | 0.5867 (3)   | 0.23785 (10)  | 0.0266 (7)                       |
| H4A  | 0.6977      | 0.5565       | 0.2608        | 0.032*                           |
| C5   | 0.5499 (3)  | 0.5141 (3)   | 0.20533 (10)  | 0.0214 (6)                       |
| H5A  | 0.5657      | 0.4348       | 0.2071        | 0.026*                           |
| C6   | 0.4477 (3)  | 0.5591 (2)   | 0.16967 (9)   | 0.0158 (6)                       |
| C7   | 0.3529 (3)  | 0.4759 (2)   | 0.13968 (9)   | 0.0159 (6)                       |
| C8   | 0.3122 (3)  | 0.5048 (2)   | 0.08629 (9)   | 0.0144 (6)                       |
| C9   | 0.3995 (3)  | 0.5748 (2)   | 0.05796 (9)   | 0.0143 (5)                       |
| H9A  | 0.4848      | 0.6018       | 0.0754        | 0.017*                           |
| C10  | 0.3931 (3)  | 0.6191 (2)   | 0.00603 (9)   | 0.0150 (6)                       |
| C11  | 0.2836 (3)  | 0.5907 (2)   | -0.03059 (10) | 0.0188 (6)                       |
| H11A | 0.2098      | 0.5348       | -0.0238       | 0.023*                           |
| C12  | 0.2854 (3)  | 0.6461 (3)   | -0.07730 (10) | 0.0214 (6)                       |
| H12A | 0.2119      | 0.6268       | -0.1013       | 0.026*                           |
| C13  | 0.3942 (3)  | 0.7295 (2)   | -0.08878 (9)  | 0.0198 (6)                       |
| C14  | 0.5065 (4)  | 0.7535 (2)   | -0.05306 (9)  | 0.0208 (6)                       |
| H14A | 0.5829      | 0.8070       | -0.0605       | 0.025*                           |
| C15  | 0.5059 (3)  | 0.6990 (2)   | -0.00666 (9)  | 0.0176 (6)                       |
| H15A | 0.5825      | 0.7160       | 0.0166        | 0.021*                           |
| C16  | 0.3901 (4)  | 0.7951 (3)   | -0.13811 (10) | 0.0304 (8)                       |
| H16A | 0.3307      | 0.7526       | -0.1624       | 0.046*                           |
| H16B | 0.4928      | 0.8047       | -0.1506       | 0.046*                           |

## supplementary materials

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H16C            0.3444            0.8694            -0.1328            0.046\*

### *Atomic displacement parameters ( $\text{\AA}^2$ )*

|     | $U^{11}$     | $U^{22}$     | $U^{33}$     | $U^{12}$      | $U^{13}$      | $U^{23}$     |
|-----|--------------|--------------|--------------|---------------|---------------|--------------|
| Br1 | 0.02062 (15) | 0.02191 (16) | 0.02395 (15) | -0.00743 (14) | -0.00516 (12) | 0.00364 (12) |
| O1  | 0.0315 (13)  | 0.0193 (11)  | 0.0252 (11)  | -0.0079 (10)  | -0.0037 (9)   | 0.0057 (9)   |
| C1  | 0.0193 (15)  | 0.0186 (15)  | 0.0152 (13)  | 0.0013 (13)   | 0.0009 (11)   | 0.0003 (11)  |
| C2  | 0.0271 (17)  | 0.0233 (16)  | 0.0180 (13)  | -0.0026 (14)  | 0.0031 (12)   | -0.0054 (12) |
| C3  | 0.0308 (19)  | 0.0347 (19)  | 0.0130 (13)  | -0.0064 (16)  | -0.0013 (12)  | -0.0074 (12) |
| C4  | 0.0237 (16)  | 0.039 (2)    | 0.0169 (13)  | -0.0012 (17)  | -0.0041 (12)  | 0.0032 (12)  |
| C5  | 0.0280 (17)  | 0.0193 (16)  | 0.0170 (13)  | 0.0043 (14)   | 0.0008 (13)   | 0.0025 (11)  |
| C6  | 0.0167 (14)  | 0.0197 (16)  | 0.0110 (12)  | 0.0007 (12)   | 0.0033 (10)   | 0.0019 (10)  |
| C7  | 0.0152 (14)  | 0.0149 (14)  | 0.0177 (13)  | 0.0020 (12)   | 0.0008 (11)   | 0.0013 (11)  |
| C8  | 0.0141 (13)  | 0.0136 (14)  | 0.0155 (13)  | -0.0018 (11)  | -0.0013 (11)  | -0.0022 (10) |
| C9  | 0.0121 (13)  | 0.0138 (13)  | 0.0168 (12)  | 0.0022 (12)   | -0.0004 (10)  | -0.0039 (11) |
| C10 | 0.0198 (16)  | 0.0109 (13)  | 0.0142 (12)  | 0.0038 (12)   | -0.0001 (11)  | -0.0029 (10) |
| C11 | 0.0184 (15)  | 0.0199 (16)  | 0.0181 (13)  | 0.0010 (13)   | 0.0005 (11)   | -0.0011 (11) |
| C12 | 0.0199 (16)  | 0.0273 (17)  | 0.0171 (13)  | 0.0038 (14)   | -0.0025 (11)  | -0.0013 (12) |
| C13 | 0.0250 (17)  | 0.0218 (15)  | 0.0125 (13)  | 0.0074 (13)   | 0.0041 (11)   | 0.0027 (11)  |
| C14 | 0.0274 (17)  | 0.0174 (15)  | 0.0177 (13)  | -0.0021 (13)  | 0.0047 (12)   | 0.0022 (11)  |
| C15 | 0.0214 (15)  | 0.0157 (15)  | 0.0157 (13)  | -0.0024 (13)  | -0.0004 (11)  | -0.0033 (11) |
| C16 | 0.036 (2)    | 0.0352 (19)  | 0.0198 (14)  | 0.0072 (16)   | -0.0008 (13)  | 0.0096 (13)  |

### *Geometric parameters ( $\text{\AA}$ , $^\circ$ )*

|           |           |              |           |
|-----------|-----------|--------------|-----------|
| Br1—C8    | 1.888 (3) | C9—C10       | 1.469 (3) |
| O1—C7     | 1.221 (3) | C9—H9A       | 0.9300    |
| C1—C2     | 1.386 (4) | C10—C15      | 1.391 (4) |
| C1—C6     | 1.388 (4) | C10—C11      | 1.400 (4) |
| C1—H1A    | 0.9300    | C11—C12      | 1.394 (4) |
| C2—C3     | 1.383 (4) | C11—H11A     | 0.9300    |
| C2—H2A    | 0.9300    | C12—C13      | 1.387 (4) |
| C3—C4     | 1.390 (4) | C12—H12A     | 0.9300    |
| C3—H3A    | 0.9300    | C13—C14      | 1.389 (4) |
| C4—C5     | 1.381 (4) | C13—C16      | 1.511 (4) |
| C4—H4A    | 0.9300    | C14—C15      | 1.382 (3) |
| C5—C6     | 1.399 (4) | C14—H14A     | 0.9300    |
| C5—H5A    | 0.9300    | C15—H15A     | 0.9300    |
| C6—C7     | 1.497 (4) | C16—H16A     | 0.9600    |
| C7—C8     | 1.496 (3) | C16—H16B     | 0.9600    |
| C8—C9     | 1.341 (4) | C16—H16C     | 0.9600    |
| C2—C1—C6  | 120.5 (3) | C10—C9—H9A   | 112.3     |
| C2—C1—H1A | 119.7     | C15—C10—C11  | 118.1 (2) |
| C6—C1—H1A | 119.7     | C15—C10—C9   | 115.5 (2) |
| C3—C2—C1  | 120.1 (3) | C11—C10—C9   | 126.3 (3) |
| C3—C2—H2A | 120.0     | C12—C11—C10  | 119.9 (3) |
| C1—C2—H2A | 120.0     | C12—C11—H11A | 120.1     |

|              |             |                 |            |
|--------------|-------------|-----------------|------------|
| C2—C3—C4     | 119.9 (3)   | C10—C11—H11A    | 120.1      |
| C2—C3—H3A    | 120.0       | C13—C12—C11     | 121.5 (3)  |
| C4—C3—H3A    | 120.0       | C13—C12—H12A    | 119.2      |
| C5—C4—C3     | 120.0 (3)   | C11—C12—H12A    | 119.2      |
| C5—C4—H4A    | 120.0       | C12—C13—C14     | 118.2 (2)  |
| C3—C4—H4A    | 120.0       | C12—C13—C16     | 121.5 (3)  |
| C4—C5—C6     | 120.4 (3)   | C14—C13—C16     | 120.3 (3)  |
| C4—C5—H5A    | 119.8       | C15—C14—C13     | 120.7 (3)  |
| C6—C5—H5A    | 119.8       | C15—C14—H14A    | 119.6      |
| C1—C6—C5     | 119.0 (3)   | C13—C14—H14A    | 119.6      |
| C1—C6—C7     | 122.4 (2)   | C14—C15—C10     | 121.4 (3)  |
| C5—C6—C7     | 118.0 (2)   | C14—C15—H15A    | 119.3      |
| O1—C7—C8     | 121.1 (2)   | C10—C15—H15A    | 119.3      |
| O1—C7—C6     | 119.7 (2)   | C13—C16—H16A    | 109.5      |
| C8—C7—C6     | 119.2 (2)   | C13—C16—H16B    | 109.5      |
| C9—C8—C7     | 122.0 (2)   | H16A—C16—H16B   | 109.5      |
| C9—C8—Br1    | 124.7 (2)   | C13—C16—H16C    | 109.5      |
| C7—C8—Br1    | 113.19 (19) | H16A—C16—H16C   | 109.5      |
| C8—C9—C10    | 135.5 (3)   | H16B—C16—H16C   | 109.5      |
| C8—C9—H9A    | 112.3       |                 |            |
| C6—C1—C2—C3  | 0.8 (4)     | C6—C7—C8—Br1    | -158.5 (2) |
| C1—C2—C3—C4  | 0.1 (4)     | C7—C8—C9—C10    | 179.8 (3)  |
| C2—C3—C4—C5  | -1.5 (4)    | Br1—C8—C9—C10   | 5.1 (5)    |
| C3—C4—C5—C6  | 2.0 (4)     | C8—C9—C10—C15   | 175.3 (3)  |
| C2—C1—C6—C5  | -0.3 (4)    | C8—C9—C10—C11   | -3.2 (5)   |
| C2—C1—C6—C7  | 171.0 (3)   | C15—C10—C11—C12 | -3.1 (4)   |
| C4—C5—C6—C1  | -1.1 (4)    | C9—C10—C11—C12  | 175.3 (3)  |
| C4—C5—C6—C7  | -172.8 (3)  | C10—C11—C12—C13 | 0.3 (4)    |
| C1—C6—C7—O1  | -136.9 (3)  | C11—C12—C13—C14 | 2.5 (4)    |
| C5—C6—C7—O1  | 34.5 (4)    | C11—C12—C13—C16 | -176.0 (3) |
| C1—C6—C7—C8  | 42.0 (4)    | C12—C13—C14—C15 | -2.4 (4)   |
| C5—C6—C7—C8  | -146.6 (3)  | C16—C13—C14—C15 | 176.1 (3)  |
| O1—C7—C8—C9  | -154.8 (3)  | C13—C14—C15—C10 | -0.5 (4)   |
| C6—C7—C8—C9  | 26.3 (4)    | C11—C10—C15—C14 | 3.2 (4)    |
| O1—C7—C8—Br1 | 20.4 (3)    | C9—C10—C15—C14  | -175.3 (2) |

*Hydrogen-bond geometry (Å, °)*

| D—H···A                  | D—H  | H···A | D···A     | D—H···A |
|--------------------------|------|-------|-----------|---------|
| C1—H1A···O1 <sup>i</sup> | 0.93 | 2.54  | 3.163 (3) | 124     |
| C11—H11A···Br1           | 0.93 | 2.69  | 3.377 (3) | 131     |

Symmetry codes: (i)  $-x+1/2, y+1/2, z$ .

## supplementary materials

**Fig. 1**

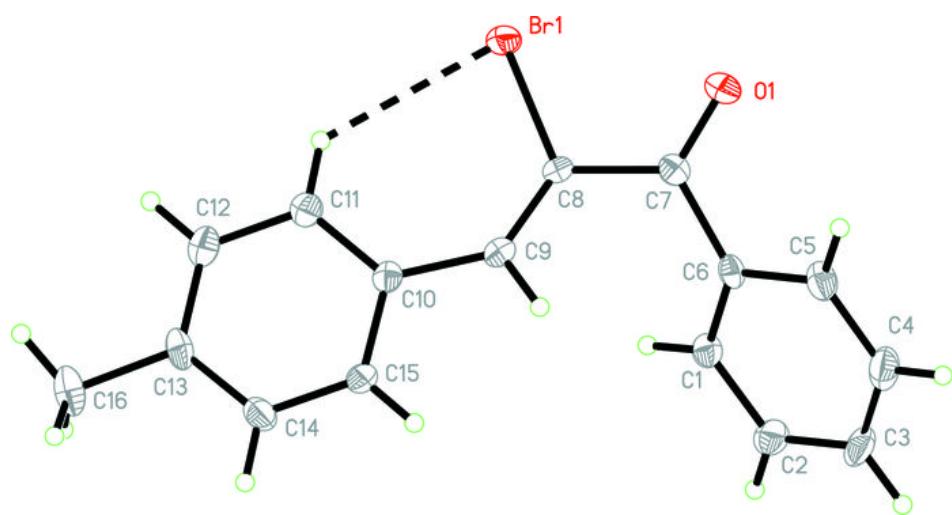
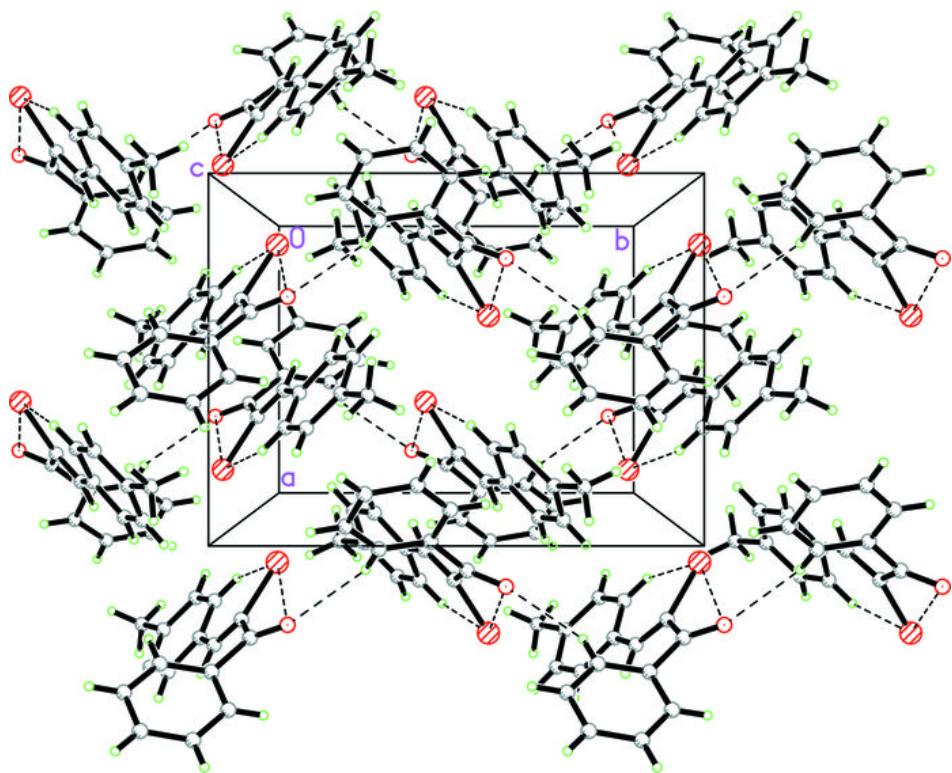


Fig. 2



# addenda and errata

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## 2-Bromo-1-(4-methylphenyl)-3-phenyl-prop-2-en-1-one. Corrigendum

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The chemical name in the title and the scheme of the paper by Fun, Jebas, Patil, Karthikeyan & Dharmaprakash [*Acta Cryst.* (2008), **E64**, o1559] are corrected.

In the paper by Fun, Jebas, Patil, Karthikeyan & Dharmaprakash [*Acta Cryst.* (2008), **E64**, o1559], the chemical name in the title and the scheme are incorrect. The correct title should be '2-Bromo-3-(4-methylphenyl)-1-phenylprop-2-en-1-one' and the correct scheme is shown below.

