



# supporting information

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## Bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxylic dianhydride

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### S1. Comment

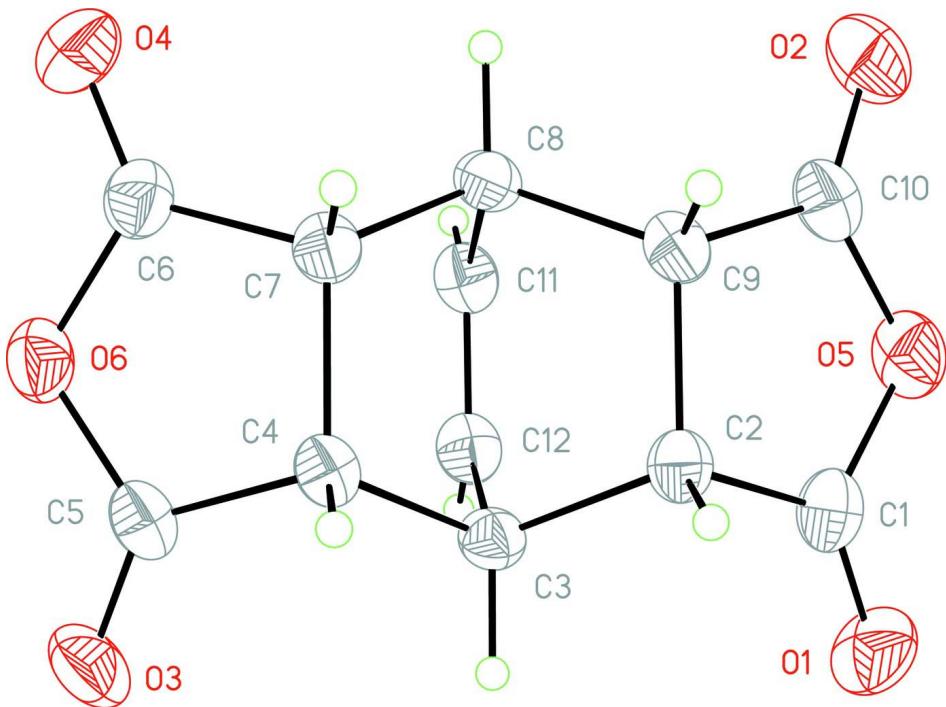
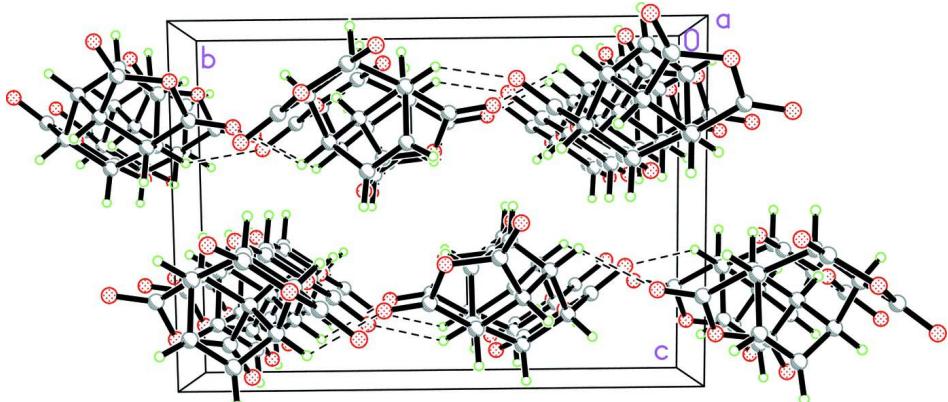
The molecule of the title complex, (I) (Fig. 1), is neutral. Molecules are linked by C—H···O weak interactions involving all the potential donors, generating a three-dimensional network, as shown in Fig. 2. No conventional hydrogen bonding was found in the structure.

### S2. Experimental

The title compound was obtained unintentionally as the product of an attempted synthesis of a polymeric network complex of znic with the bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxylic acid. The title compound (0.4 mmol) and Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O (0.2 mmol) were dissolved in 15 ml distilled water, to which 2 drops of H<sub>3</sub>PO<sub>4</sub> (w.t. 18%) was added. The solution was put into the oven at 50 centigrade degree for 1 day. Colourless prism crystals were collected by filtration.

### S3. Refinement

H atoms were positioned geometrically and refined using a riding model with C—H = 0.980 Å and 0.930 Å, respectively, with  $U_{\text{iso}}(\text{H}) = 1.2$  times  $U_{\text{eq}}(\text{C})$ . Reflection -111 was omitted because it was eclipsed by the beam stop.

**Figure 1****Figure 2**

### Bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxylic dianhydride

#### Crystal data

$C_{12}H_8O_6$

$M_r = 248.18$

Monoclinic,  $P2_1/n$

Hall symbol: -P 2yn

$a = 7.627 (2)$  Å

$b = 13.877 (3)$  Å

$c = 9.823 (2)$  Å

$\beta = 100.68 (2)^\circ$

$V = 1021.7 (4)$  Å<sup>3</sup>

$Z = 4$

$F(000) = 512$

$D_x = 1.613$  Mg m<sup>-3</sup>

Mo  $K\alpha$  radiation,  $\lambda = 0.71073$  Å

Cell parameters from 2677 reflections

$\theta = 2.9\text{--}24.1^\circ$

$\mu = 0.13$  mm<sup>-1</sup>







