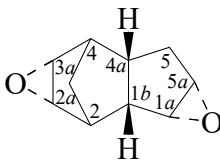




>>Entry Name: Octahydro-2,4-methano-2*H*-indeno[1,2-*b*:5,6-*b'*]bisoxirene, 9Cl

Synonym(s): 1,2:5,6-Diepoxyhexahydro-4,7-methanoindan, 8Cl. Bicyclopentadiene dioxide. Dicyclopentadiene diepoxide.  $\alpha$ -Dicyclopentadiene dioxide. 4,5:8,9-Diepoxytricyclo[5.2.1.0<sup>2,6</sup>]decane



(1 $\alpha$ ,1*b* $\beta$ ,2 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,4*b*,4 $\beta$ ,5 $\alpha$ )-form

CAS Registry Number: 81-21-0

Molecular Formula: C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Use/Importance: Used in manuf. of epoxy resins, and as a fungicide, stabiliser for halogen-containing polymers and as component of photoresist compositions

Rare Chemicals Library: S41998-2

>>Variant: (1 $\alpha$ ,1*b* $\alpha$ ,2 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,4 $\alpha$ ,4 $\alpha$ ,5 $\alpha$ )-form

CAS Registry Number: 70681-73-1

Molecular Formula: C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Physical Description: Cryst. (petrol)

Melting Point: Mp 76-77°

>>Variant: (1 $\alpha$ ,1*b* $\alpha$ ,2 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,4 $\alpha$ ,5 $\alpha$ )-form

CAS Registry Number: 70681-74-2

Molecular Formula: C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Boiling Point: Bp<sub>6</sub> 126°

Density: d<sub>4</sub><sup>25</sup> 1.21

Refractive Index: n<sub>D</sub><sup>25</sup> 1.5211

>>Variant: (1 $\alpha$ ,1*b* $\beta$ ,2 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,4 $\alpha$ ,4 $\beta$ ,5 $\alpha$ )-form

CAS Registry Number: 19773-45-6

Molecular Formula: C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Melting Point: Mp 39-42°

Boiling Point: Bp<sub>4</sub> 119-121°

>>Variant: (1 $\alpha$ ,1*b* $\beta$ ,2 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,4 $\beta$ ,5 $\alpha$ )-form

CAS Registry Number: 24560-94-9

Molecular Formula: C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Physical Description: Cryst. (H<sub>2</sub>O)

Melting Point: Mp 189°

Boiling Point: Subl.<sub>10</sub> 120-135°

References: