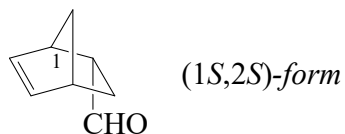




>>Entry Name: Bicyclo[2.2.1]hept-5-ene-2-carboxaldehyde, 9CI

Synonym(s): 5-Norbornene-2-carboxaldehyde, 8CI. 5-Formyl-bicyclo[2.2.1]hept-2-ene. 5-Formylnorbornene



CAS Registry Number: 5453-80-5

Related CAS Registry Numbers(s): 72203-35-1 96443-40-2 96443-41-3

Molecular Formula: C<sub>8</sub>H<sub>10</sub>O

Molecular Weight: 122.166

Accurate Mass: 122.073165

Percentage Composition: C 78.65%; H 8.25%; O 13.10%

Boiling Point: Bp<sub>12</sub> 67-70°. Bp<sub>0.6</sub> 36°

Density: d 1.02

Refractive Index: n<sub>D</sub><sup>20</sup> 1.4883

Aldrich: 10937-1

>>Variant: (1*S*,2*S*)-form

Synonym(s): (-)-*endo*-form

CAS Registry Number: 58001-94-8

Molecular Formula: C<sub>8</sub>H<sub>10</sub>O

Molecular Weight: 122.166

Accurate Mass: 122.073165

Percentage Composition: C 78.65%; H 8.25%; O 13.10%

Boiling Point: Bp<sub>66</sub> 97-100°

Optical Rotation: [α]<sub>D</sub><sup>26</sup> -69.6 (c, 1.07, EtOH)

>>Variant: (1*RS*,2*RS*)-form

Synonym(s): (±)-*endo*-form

CAS Registry Number: 19926-90-0

Extra CAS Registry Numbers(s): 69831-12-5

Molecular Formula: C<sub>8</sub>H<sub>10</sub>O

Molecular Weight: 122.166

Accurate Mass: 122.073165

Percentage Composition: C 78.65%; H 8.25%; O 13.10%

Boiling Point: Bp<sub>17</sub> 65-66°

Density: d<sub>4</sub><sup>19</sup> 1.02

Refractive Index: n<sub>D</sub><sup>19</sup> 1.4886

>>Derivative: Semicarbazone

CAS Registry Number: 19926-91-1

Physical Description: Cryst.

Melting Point: Mp 160-161°

>>Variant: (1*RS*,2*SR*)-form

Synonym(s): (±)-*exo*-form

CAS Registry Number: 19926-88-6

Extra CAS Registry Numbers(s): 69831-13-6

Molecular Formula: C<sub>8</sub>H<sub>10</sub>O

Molecular Weight: 122.166

Accurate Mass: 122.073165

Percentage Composition: C 78.65%; H 8.25%; O 13.10%

>>Derivative: Semicarbazone

CAS Registry Number: 19926-89-7

Physical Description: Cryst.

Melting Point: Mp 163.5-164°

References: