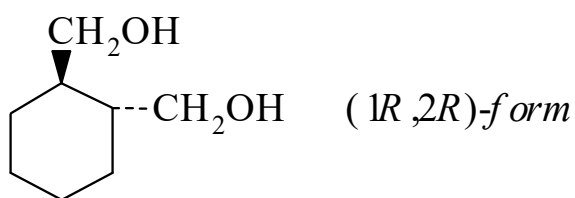




>>Entry Name: 1,2-Cyclohexanedimethanol, 9CI

Synonym(s): 1,2-Bis(hydroxymethyl)cyclohexane



CAS Registry Number: 3971-29-7

Related CAS Registry Numbers(s): 25712-33-8

Extra CAS Registry Numbers(s): 27193-25-5

Molecular Formula: C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 144.213

Accurate Mass: 144.11503

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

>>Variant: (1R,2R)-form

Synonym(s): (+)-*trans*-form

CAS Registry Number: 65376-05-8

Molecular Formula: C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 144.213

Accurate Mass: 144.11503

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

>>Derivative: Bis(4-methylbenzenesulfonyl)

Melting Point: Mp 109-110°

Optical Rotation:  $[\alpha]_{\text{D}}^{21} -24.8$

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

Synonym(s): (–)-*trans*-form

CAS Registry Number: 3205-34-3

Molecular Formula: C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 144.213

Accurate Mass: 144.11503

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Melting Point: Mp 63-64°

Optical Rotation:  $[\alpha]_{\text{D}}^{27} -20.2$  (c, 4 in C<sub>6</sub>H<sub>6</sub>)

>>Derivative: Bis(methanesulfonyl)

CAS Registry Number: 173658-50-9

Molecular Formula: C<sub>10</sub>H<sub>20</sub>O<sub>6</sub>S<sub>2</sub>

Molecular Weight: 300.396

Accurate Mass: 300.07013

Percentage Composition: C 39.98%; H 6.71%; O 31.96%; S 21.35%

Physical Description: Solid (MeOH)

Melting Point: Mp 83-84°

Optical Rotation:  $[\alpha]_{\text{D}} +16.6$  (c, 1.94 in CHCl<sub>3</sub>)

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

Synonym(s): (±)-*trans*-form

CAS Registry Number: 76155-27-6

Molecular Formula: C<sub>8</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 144.213

Accurate Mass: 144.11503

Percentage Composition: C 66.63%; H 11.18%; O 22.19%

Melting Point: Mp 57°

>>Derivative: Bis-4-nitrobenzoyl

Physical Description: Yellow powder (Me<sub>2</sub>CO/EtOH)

Melting Point: Mp 168°