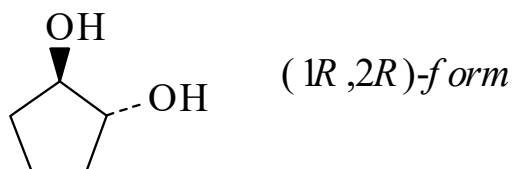




>>Entry Name: 1,2-Cyclopentanediol, 9CI



CAS Registry Number: 4065-92-3

Related CAS Registry Numbers(s): 86703-52-8

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

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

Synonym(s): (–)-trans-form

CAS Registry Number: 63261-45-0

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Melting Point: Mp 48-48.5°

Optical Rotation: $[\alpha]_{\text{D}}^{20}$ –24.88 (c, 6.0 in EtOH)

Aldrich: 45926-7

Fluka: 29723

>>Derivative: Phenylurethane

Melting Point: Mp 213-215°

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

CAS Registry Number: 107492-82-0

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Physical Description: Fragrant solid

Melting Point: Mp 47-48°

Optical Rotation: $[\alpha]_{\text{D}}^{20}$ +24.54 (c, 5.4 in EtOH)

Other Data: Highly hygroscopic

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

Synonym(s): (±)-trans-form

CAS Registry Number: 5057-99-8

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Melting Point: Mp 55°

Boiling Point: Bp₂₂ 136°

Aldrich: 36144-5

>>Derivative: Di-Ac

CAS Registry Number: 65783-98-4

Molecular Formula: C₉H₁₄O₄

Molecular Weight: 186.207

Accurate Mass: 186.08921

Percentage Composition: C 58.05%; H 7.58%; O 34.37%

Melting Point: Mp –4°

Boiling Point: Bp_{3.5} 86°