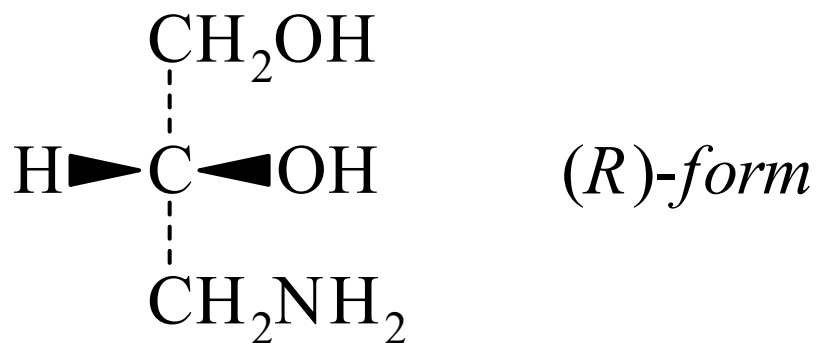




>>Entry Name: **3-Amino-1,2-propanediol**, 9CI

Synonym(s): 2,3-Dihydroxypropylamine. 3-Aminopropylene glycol



CAS Registry Number: 616-30-8

Related CAS Registry Numbers(s): 60812-23-9

Molecular Formula: C₃H₉NO₂

Molecular Weight: 91.11

Accurate Mass: 91.063329

Percentage Composition: C 39.55%; H 9.96%; N 15.37%; O 35.12%

Aldrich: A7600-1

Fluka: 9265

Sigma: A9161

>>Variant: (*R*)-form

Molecular Formula: C₃H₉NO₂

Molecular Weight: 91.11

Accurate Mass: 91.063329

Percentage Composition: C 39.55%; H 9.96%; N 15.37%; O 35.12%

Boiling Point: Bp₁₅ 163°

Optical Rotation: [α]_D¹⁸+2.4 (H₂O) (dil. HCl)

>>Variant: (*S*)-form

Molecular Formula: C₃H₉NO₂

Molecular Weight: 91.11

Accurate Mass: 91.063329

Percentage Composition: C 39.55%; H 9.96%; N 15.37%; O 35.12%

Melting Point: Mp 55-57°

Boiling Point: Bp_{0.003} 95-98°

Optical Rotation: [α]_D −2.4 (H₂O) (dil. HCl)

>>Variant: (±)-form

Molecular Formula: C₃H₉NO₂

Molecular Weight: 91.11

Accurate Mass: 91.063329

Percentage Composition: C 39.55%; H 9.96%; N 15.37%; O 35.12%

Boiling Point: Bp 264-265° (part dec.). Bp_{1.5} 110-115° (lit. gives a pressure range)

Other Data: Hygroscopic, absorbs CO₂

>>Derivative: *O,O*-Dibenzoyl

Molecular Formula: C₁₇H₁₇NO₄

Molecular Weight: 299.326

Accurate Mass: 299.115759

Percentage Composition: C 68.22%; H 5.72%; N 4.68%; O 21.38%

Physical Description: Needles (as hydrochloride)

Melting Point: Mp 203 dec.° (hydrochloride)