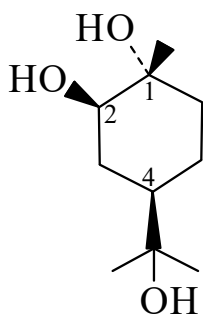




>>Entry Name: *p*-Menthane-1,2,8-triol

Synonym(s): 4-(1-Hydroxy-1-methylethyl)-1-methyl-1,2-cyclohexanediol, 9CI



(1*R*,2*R*,4*R*)-form

CAS Registry Number: 58506-22-2

Related CAS Registry Numbers(s): 54145-82-3

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

>>Variant: (1*R*,2*R*,4*R*)-form

CAS Registry Number: 93861-31-5

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Physical Description: Cryst.

Melting Point: Mp 117°

Optical Rotation: [α]_D +2.5 (c, 0.42 in EtOH)

>>Variant: (1*R*,2*S*,4*R*)-form

CAS Registry Number: 93861-32-6

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 141-143°

Optical Rotation: [α]_D +36.3 (c, 0.3 in EtOH)

>>Variant: (1*S*,2*R*,4*R*)-form

CAS Registry Number: 93861-30-4

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Physical Description: Cryst. (CH₂Cl₂)

Melting Point: Mp 81-82°

Optical Rotation: [α]_D +16.9 (c, 0.42 in EtOH)

>>Variant: (1*S*,2*S*,4*R*)-form

CAS Registry Number: 62014-81-7

Molecular Formula: C₁₀H₂₀O₃

Molecular Weight: 188.266

Accurate Mass: 188.141245

Percentage Composition: C 63.80%; H 10.71%; O 25.49%

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 141-142°

Optical Rotation: [α]_D +44.4 (c, 0.5 in EtOH)

References:

Carman, R.M. *et al.*, *Aust. J. Chem.*, 1984, **37**, 2129, (*synth, bibl*)