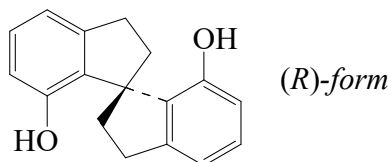




>>Entry Name: **1,1'-Spirobiindane-7,7'-diol**

Synonym(s): 2,2',3,3'-Tetrahydro-1,1'-spiro[1*H*-indene]-7,7'-diol, 9CI



Molecular Formula: C₁₇H₁₆O₂

Molecular Weight: 252.312

Accurate Mass: 252.11503

Percentage Composition: C 80.93%; H 6.39%; O 12.68%

>>Variant: (*R*)-form

CAS Registry Number: 223259-62-9

Molecular Formula: C₁₇H₁₆O₂

Molecular Weight: 252.312

Accurate Mass: 252.11503

Percentage Composition: C 80.93%; H 6.39%; O 12.68%

Physical Description: Cryst. (hexane)

Melting Point: Mp 155.5-156°

Optical Rotation: [α]_D²⁵ +32.5 (c, 1 in CHCl₃)

>>Variant: (*S*)-form

CAS Registry Number: 223259-63-0

Molecular Formula: C₁₇H₁₆O₂

Molecular Weight: 252.312

Accurate Mass: 252.11503

Percentage Composition: C 80.93%; H 6.39%; O 12.68%

Physical Description: Needles (hexane)

Melting Point: Mp 155-156°

Optical Rotation: [α]_D²⁵ -32.7 (c, 1 in CHCl₃) (>98% ee)

>>Variant: (±)-form

CAS Registry Number: 223137-87-9

Molecular Formula: C₁₇H₁₆O₂

Molecular Weight: 252.312

Accurate Mass: 252.11503

Percentage Composition: C 80.93%; H 6.39%; O 12.68%

Physical Description: Cryst. (hexane)

Melting Point: Mp 115-116°

>>Derivative: Di-Me ether

Synonym(s): 7,7'-Dimethoxy-1,1'-spirobiindane

CAS Registry Number: 223137-81-3

Molecular Formula: C₁₉H₂₀O₂

Molecular Weight: 280.366

Accurate Mass: 280.14633

Percentage Composition: C 81.40%; H 7.19%; O 11.41%

Physical Description: Cryst. (hexane)

Melting Point: Mp 139-140°

References:

Birman, V.B. *et al.*, *Tetrahedron: Asymmetry*, 1999, **10**, 125-131, (*synth, resoln, Me ether*)