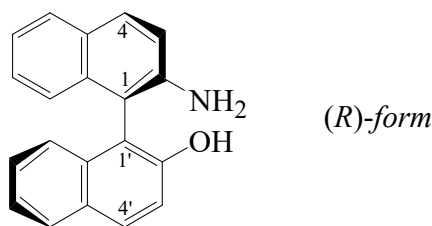




>>Entry Name: 2-Amino-2'-hydroxy-1,1'-binaphthyl

Synonym(s): 2'-Amino-[1,1'-binaphthalen]-2-ol



CAS Registry Number: 134532-03-9

Related CAS Registry Numbers(s): 137848-28-3 216320-44-4 219820-75-4

Molecular Formula: $C_{20}H_{15}NO$

Molecular Weight: 285.345

Accurate Mass: 285.115364

Percentage Composition: C 84.19%; H 5.30%; N 4.91%; O 5.61%

>>Variant: (R)-form

CAS Registry Number: 137848-28-3

Molecular Formula: $C_{20}H_{15}NO$

Molecular Weight: 285.345

Accurate Mass: 285.115364

Percentage Composition: C 84.19%; H 5.30%; N 4.91%; O 5.61%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 171-173°

Optical Rotation: $[\alpha]_D +120$ (c, 1.5 THF)

>>Derivative: *N,N*-Di-Et

CAS Registry Number: 216319-78-7

Molecular Formula: $C_{24}H_{23}NO$

Molecular Weight: 341.452

Accurate Mass: 341.177964

Percentage Composition: C 84.42%; H 6.79%; N 4.10%; O 4.69%

Optical Rotation: $[\alpha]_D^{25} +13.1$ (c, 0.5 in THF)

>>Derivative: *N*-Ph

CAS Registry Number: 216320-20-6

Molecular Formula: $C_{26}H_{19}NO$

Molecular Weight: 361.442

Accurate Mass: 361.146664

Percentage Composition: C 86.40%; H 5.30%; N 3.88%; O 4.43%

Physical Description: Amorph. solid

Optical Rotation: $[\alpha]_D^{25} +146$ (c, 0.3 in THF) (99% ee)

>>Derivative: *N*-Ac

CAS Registry Number: 216369-01-6

Molecular Formula: $C_{22}H_{17}NO_2$

Molecular Weight: 327.382

Accurate Mass: 327.125929

Percentage Composition: C 80.71%; H 5.23%; N 4.28%; O 9.77%

Physical Description: Cryst.

Melting Point: Mp 208-209°

Optical Rotation: $[\alpha]_D^{25} +79$ (c, 0.5 in $CHCl_3$)

>>Variant: (S)-form

CAS Registry Number: 137848-29-4

Molecular Formula: $C_{20}H_{15}NO$

Molecular Weight: 285.345

Accurate Mass: 285.115364

Percentage Composition: C 84.19%; H 5.30%; N 4.91%; O 5.61%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 171-173°

Optical Rotation: $[\alpha]_D -120$ (c, 1.5 in THF) (ca. 100% ee)