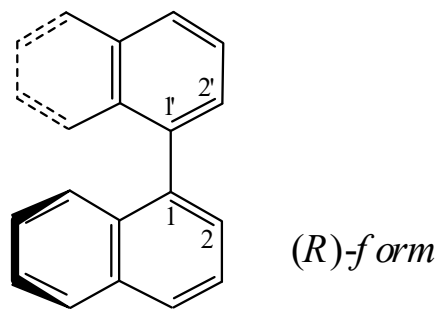




>>Entry Name: 1,1'-Binaphthyl, 8Cl

Synonym(s): 1,1'-Binaphthalene, 9Cl



CAS Registry Number: 604-53-5

Molecular Formula: C₂₀H₁₄

Molecular Weight: 254.331

Accurate Mass: 254.10955

Percentage Composition: C 94.45%; H 5.55%

General Statement: Atropisomeric compd. with low barrier to interconversion.

Rare Chemicals Library: S56177-0

>>Variant: (R)-form

CAS Registry Number: 24161-30-6

Molecular Formula: C₂₀H₁₄

Molecular Weight: 254.331

Accurate Mass: 254.10955

Percentage Composition: C 94.45%; H 5.55%

Optical Rotation: [α]_D -204 (C₆H₆)

Other Data: *t*_{1/2} =10h at 25° in several solvents

>>Variant: (S)-form

CAS Registry Number: 734-77-0

Molecular Formula: C₂₀H₁₄

Molecular Weight: 254.331

Accurate Mass: 254.10955

Percentage Composition: C 94.45%; H 5.55%

Optical Rotation: [α]_D +222 (C₆H₆)

>>Variant: (±)-form

CAS Registry Number: 32507-32-7

Molecular Formula: C₂₀H₁₄

Molecular Weight: 254.331

Accurate Mass: 254.10955

Percentage Composition: C 94.45%; H 5.55%

Melting Point: Mp 145°. Mp 159° (dimorph.)

Boiling Point: Bp₁₂ 290-294°

Other Data: The cryst. form Mp 159° is a eutectic mixt. of individual (R) and (S) cryst., the form Mp 145° is a true racemate. The compd. is subject to spontaneous solid-state resolution *via* a phase-transition between the two forms

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