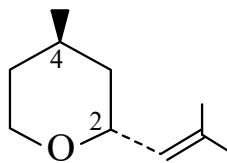




>>Entry Name: Rose oxide

Synonym(s): Tetrahydro-4-methyl-2-(2-methyl-1-propenyl)pyran, 9Cl. 2-Isobutenyl-4-methyltetrahydropyran



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

CAS Registry Number: 16409-43-1

Related CAS Registry Numbers(s): 876-17-5 876-18-6 5258-10-6

Molecular Formula: C₁₀H₁₈O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Use/Importance: Perfumery ingredient

Fluka: 83917

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

Synonym(s): (–)-*trans*-form

CAS Registry Number: 5258-11-7

Molecular Formula: C₁₀H₁₈O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Physical Description: Oil

Boiling Point: Bp_{1.3} 41-47°

Optical Rotation: [α]_D –18

Fluka: 83925

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

Synonym(s): (+)-*cis*-form

CAS Registry Number: 4610-11-1

Molecular Formula: C₁₀H₁₈O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Physical Description: Oil

Boiling Point: Bp₁₁ 70-71°

Optical Rotation: [α]_D²¹ +31.9 (neat) (opt. purity unknown)

Refractive Index: n_D²⁰ 1.4545

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

Synonym(s): (–)-*cis*-form

CAS Registry Number: 3033-23-6

Molecular Formula: C₁₀H₁₈O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Physical Description: Oil

Boiling Point: Bp_{1.3} 41-47°

Optical Rotation: [α]_D –58.1

>>Variant: (2*RS*,4*RS*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 5542-69-8

Molecular Formula: C₁₀H₁₈O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Physical Description: Oil

Boiling Point: Bp₂₀ 88-89°

Refractive Index: n