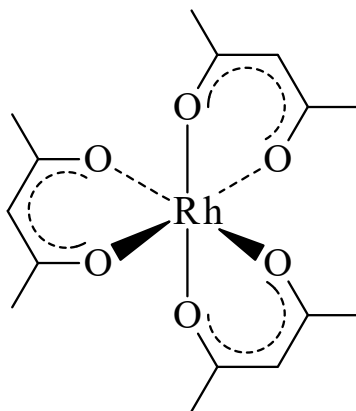




>>Entry Name: **Tris(2,4-pentanedionato-*O,O'*)rhodium**, 11Cl, 10Cl

Synonym(s): Tris(acetylacetonato)rhodium. Rhodium(*III*) acetylacetonate. Rh(acac)₃



CAS Registry Number: 14284-92-5

Molecular Formula: C₁₅H₂₁O₆Rh

Molecular Weight: 400.233

Accurate Mass: 400.039315

Percentage Composition: C 45.02%; H 5.29%; O 23.99%; Rh 25.71%

Source/Synthesis: Synth. from RhCl₃ or [Rh(H₂O)₆]³⁽⁺⁾ + pentanedione + OH⁽⁻⁾, or from aq. RhCl₃ + pentanedione at pH 4-5 under reflux for 30 min.

Use/Importance: Commercially available. Many refs. to potential use as catalyst for hydrogenation, hydroformylation, etc.

Physical Description: Orange-yellow monoclinic plates (MeOH aq.)

Melting Point: Mp 260-263°

Boiling Point: Subl.₁ 240°

Solubility: Sol. C₆H₆, CHCl₃, CCl₄, MeCN; sl. sol. EtOH, petrol; insol. H₂O

Aldrich: 28277-4

Other: Gelest AKR665

>>Variant: Δ-form

CAS Registry Number: 31378-28-6

Molecular Formula: C₁₅H₂₁O₆Rh

Molecular Weight: 400.233

Accurate Mass: 400.039315

Percentage Composition: C 45.02%; H 5.29%; O 23.99%; Rh 25.71%

>>Variant: Λ-form

CAS Registry Number: 31378-29-7

Molecular Formula: C₁₅H₂₁O₆Rh

Molecular Weight: 400.233

Accurate Mass: 400.039315

Percentage Composition: C 45.02%; H 5.29%; O 23.99%; Rh 25.71%

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