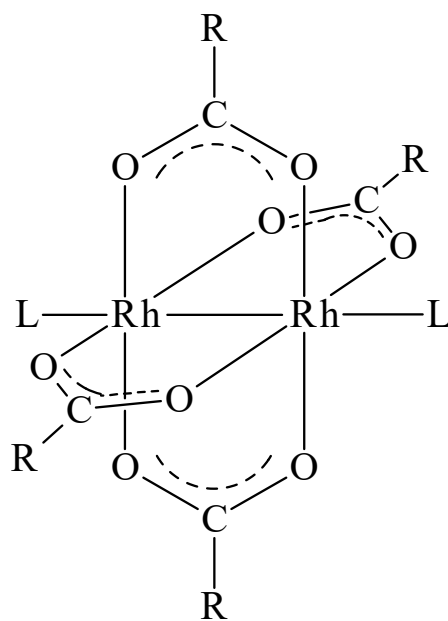




>>Entry Name: Tetrakis[μ -(trifluoroacetato-*O*:*O'*)]dirhodium(II)



L = donor molecule
R = CF₃

CAS Registry Number: 31126-95-1

Molecular Formula: C₈F₁₂O₈Rh₂

Molecular Weight: 657.875

Accurate Mass: 657.751156

Percentage Composition: C 14.61%; F 34.65%; O 19.46%; Rh 31.28%

Source/Synthesis: Anhydrous compd. obt. by heating dihydrate at 150° for 30 mins.

Physical Description: Blue-green cryst. at r.t., green at high temp., purple at 77K. Rapidly absorbs H₂O

Boiling Point: Subl. 350°

Solubility: Sol. H₂O, THF, EtOH, Me₂CO, MeCN

Aldrich: 39919-1

Fluka: 83785

>>Derivative: Dihydrate

Synonym(s): Diaquatetrakis[μ -(trifluoroacetato-*O*:*O'*)]dirhodium(II). Rhodium(II) acetate hydrate

CAS Registry Number: 70084-34-3

Molecular Formula: C₈H₄F₁₂O₁₀Rh₂

Molecular Weight: 693.905

Accurate Mass: 693.772286

Percentage Composition: C 13.85%; H 0.58%; F 32.85%; O 23.06%; Rh 29.66%

Physical Description: Dark green cryst.

>>Derivative: Bis-EtOH complex

CAS Registry Number: 15259-45-7

Molecular Formula: C₁₂H₁₂F₁₂O₁₀Rh₂

Molecular Weight: 750.013

Accurate Mass: 749.834886

Percentage Composition: C 19.22%; H 1.61%; F 30.40%; O 21.33%; Rh 27.44%

Physical Description: Cryst., loses EtOH over several days in air

Solubility: Sol. CHCl₃

>>Derivative: Bis-DMSO complex

Synonym(s): Bis(dimethyl sulfoxide)tetrakis(trifluoroacetato)dirhodium(II). Bis[sulfinylbis[methane]-*O*]tetrakis[μ -(trifluoroacetato-*O*:*O'*)]dirhodium(II), 10Cl. Rhodium(II) trifluoroacetate DMSO complex

CAS Registry Number: 72665-42-0

Molecular Formula: C₁₂H₁₂F₁₂O₁₀Rh₂S₂

Molecular Weight: 814.145

Accurate Mass: 813.779026

Percentage Composition: C 17.70%; H 1.49%; F 28.00%; O 19.65%; Rh 25.28%; S 7.88%

Physical Description: Dark blue cryst. (CHCl₃/C₆H₆)

Other Data: Dichroic: red in some orientations, in transmitted light. DMSO ligands coordinate through O