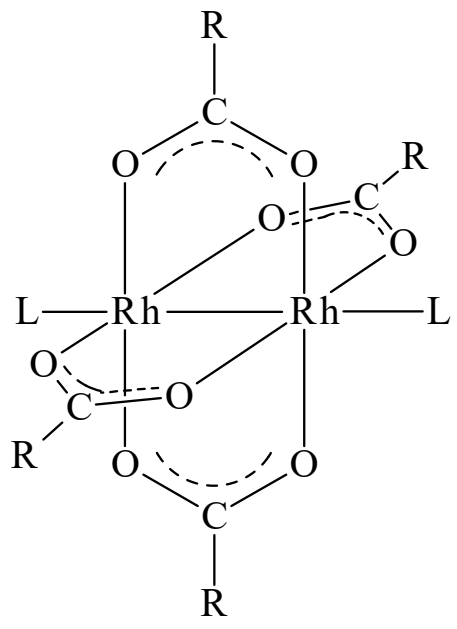
>>**Entry Name: Tetrakis[μ-(trifluoroacetato-*O*:*O*')]dirhodium(*II*)**



L = donor molecule
R = CF_3

CAS Registry Number: 31126-95-1

Molecular Formula: $C_8F_{12}O_8Rh_2$
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 H_2O
Boiling Point: Subl. 350°
Solubility: Sol. H_2O, THF, EtOH, Me_2CO, 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: $C_8H_4F_{12}O_{10}Rh_2$
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: $C_{12}H_{12}F_{12}O_{10}Rh_2$
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. $CHCl_3$

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

CAS Registry Number: 72665-42-0
Molecular Formula: $C_{12}H_{12}F_{12}O_{10}Rh_2S_2$
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. ($CHCl_3/C_6H_6$)
Other Data: Dichroic: red in some orientations, in transmitted light. DMSO ligands coordinate through O