



CAS Registry Number: 72207-18-2
Molecular Formula: C₁₆H₂₈O₈Rh₂S₂
Molecular Weight: 618.335
Accurate Mass: 617.93356
Percentage Composition: C 31.08%; H 4.56%; O 20.70%; Rh 33.28%; S 10.37%
Physical Description: Dark red cryst.

>>Derivative: Bis-Py complex

Synonym(s): Tetrakis[μ-(acetato-*O:O'*)]bispyridinedirhodium

Molecular Formula: C₁₈H₂₂N₂O₈Rh₂
Molecular Weight: 600.191
Accurate Mass: 599.948618
Percentage Composition: C 36.02%; H 3.69%; N 4.67%; O 21.33%; Rh 34.29%

>>Derivative: Bis-DMSO complex

Synonym(s): Tetrakis[μ-(acetato-*O:O'*)]bis[sulfinylbis[methane]-*S*]dirhodium, 10Cl. Tetraacetatobis(dimethylsulfoxide)dirhodium(II)

CAS Registry Number: 39773-10-9
Molecular Formula: C₁₂H₂₄O₁₀Rh₂S₂
Molecular Weight: 598.259
Accurate Mass: 597.89209
Percentage Composition: C 24.09%; H 4.04%; O 26.74%; Rh 34.40%; S 10.72%
Physical Description: Orange cryst.
Other Data: DMSO ligand coordinates through S

>>Derivative: Bis(isocyanomethane) complex

CAS Registry Number: 80419-75-6
Molecular Formula: C₁₂H₁₈N₂O₈Rh₂
Molecular Weight: 524.094
Accurate Mass: 523.917318
Percentage Composition: C 27.50%; H 3.46%; N 5.35%; O 24.42%; Rh 39.27%
Other Data: Dimeric with Rh-Rh bond

>>Derivative: 4-Cyanopyridine complex

Synonym(s): Tetrakis[μ-(acetato-*O:O'*)](4-pyridinecarbonitrile-*N'*)dirhodium(III), 10Cl

CAS Registry Number: 73545-75-2
Molecular Formula: C₁₄H₁₆N₂O₈Rh₂
Molecular Weight: 546.1
Accurate Mass: 545.901668
Percentage Composition: C 30.79%; H 2.95%; N 5.13%; O 23.44%; Rh 37.69%
Source/Synthesis: Synth. from Rh₂(OAc)₄(4-cyanopyridine)₂ at 150°
Physical Description: Props. not recorded

>>Derivative: Monomer

Synonym(s): Rhodium(II) acetate

CAS Registry Number: 5503-41-3
Molecular Formula: C₄H₆O₄Rh
Molecular Weight: 220.995
Accurate Mass: 220.93211
Percentage Composition: C 21.74%; H 2.74%; O 28.96%; Rh 46.56%
Other Data: Has no separate existence

References:

- Johnson, S.A. *et al.*, *Inorg. Chem.*, 1963, **2**, 960, (*synth, ir, bis-NO complex*)
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Koh, Y.B. *et al.*, *Inorg. Chem.*, 1979, **18**, 1122, (*synth, cryst struct, bis-Et₂NH complex*)
Cotton, F.A. *et al.*, *Inorg. Chem.*, 1980, **19**, 323, (*synth, cryst struct, bis-tetrahydrothiophene complex*)
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Felthouse, T.R. *et al.*, *Prog. Inorg. Chem.*, 1982, **29**, 73, (*synth, bis-MeOH, bis-isocyanomethane complexes*)
Encyclopaedia of Reagents for Organic Synthesis, (ed. Paquette, L.A.), Wiley, 1995, **4**, 2281, (*use*)
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