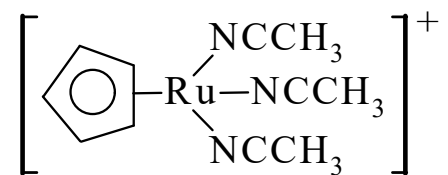




>>Entry Name: Tris(acetonitrile)(η^5 -2,4-cyclopentadien-1-yl)ruthenium(1+), 11Cl



CAS Registry Number: 80049-60-1

Related CAS Registry Numbers(s): 133470-72-1 133818-14-1

Molecular Formula: C₁₁H₁₄N₃Ru⁽⁺⁾

Molecular Weight: 289.322

Accurate Mass: 290.02312

Percentage Composition: C 45.67%; H 4.88%; N 14.52%; Ru 34.93%

Use/Importance: CpRu transfer reagent

>>Derivative: Hexafluorophosphate

CAS Registry Number: 80049-61-2

Molecular Formula: C₁₁H₁₄F₆N₃PRu

Molecular Weight: 434.286

Percentage Composition: C 30.42%; H 3.25%; F 26.25%; N 9.68%; P 7.13%; Ru 23.27%

Source/Synthesis: Synth. by photol. of [RuCp(C₆H₆)]PF₆ in MeCN

Physical Description: Yellow cryst.

Melting Point: Mp 117-118 dec.°

NMR Spectra: Pmr 2.52,s, 9H (3MeCN) ppm, Me₂CO-d₆

>>Derivative: Tetrafluoroborate

CAS Registry Number: 107799-44-0

Molecular Formula: C₁₁H₁₄BF₄N₃Ru

Molecular Weight: 376.126

Percentage Composition: C 35.13%; H 3.75%; B 2.87%; F 20.20%; N 11.17%; Ru 26.87%

Physical Description: Air-sensitive yellow prisms

References:

Gill, T.P. *et al.*, *Organometallics*, 1982, **1**, 485, (*synth, pmr, uv*)

Bickert, P. *et al.*, *Organometallics*, 1984, **3**, 653, (*use*)

Luginbühl, W. *et al.*, *Inorg. Chem.*, 1991, **30**, 2350, (*cryst struct*)

Synthetic Methods of Organometallic and Inorganic Chemistry, (ed. Hermann, W.A.), Thieme, 1996, **3**, 198-200, (*synth, pmr*)