



>>Entry Name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)ruthenium(III), 9Cl

Synonym(s): Tris(dipivaloylmethanoato)ruthenium(III)

CAS Registry Number: 38625-54-6

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)ruthenium(III), HZM55-R with
 $R^1 = R^2 = C(CH_3)_3$

Molecular Formula: $C_{33}H_{57}O_6Ru$

Molecular Weight: 650.88

Accurate Mass: 651.319863

Percentage Composition: C 60.90%; H 8.83%; O 14.75%; Ru 15.53%

Source/Synthesis: Prepd. by treating a soln. of $RuCl_3 \cdot xH_2O$ and the free diketone with $[HCO_3]^{(-)}$

Physical Description: Dark red solid

Melting Point: Mp 220-223°

References:

- Patterson, G.S. *et al.*, *Inorg. Chem.*, 1972, **11**, 2285, (*synth, electrochem*)
Endo, A. *et al.*, *Chem. Lett.*, 1984, 437, (*synth*)
Takeuchi, Y. *et al.*, *J. Electroanal. Chem. Interfacial Electrochem.*, 1985, **185**, 185, (*electrochem*)
Satsu, Y. *et al.*, *Chem. Lett.*, 1986, 585, (*electrochem*)
Aynetchi, S. *et al.*, *Inorg. Chim. Acta*, 1986, **113**, L7, (*pe, electrochem*)
Kobayashi, H. *et al.*, *Inorg. Chem.*, 1987, **26**, 4318, (*resoln, cd*)
Endo, A. *et al.*, *Inorg. Chim. Acta*, 1988, **150**, 25, (*synth*)
Endo, A. *et al.*, *Bull. Chem. Soc. Jpn.*, 1989, **62**, 709; 4095, (*electrochem*)
Morozova, N.B. *et al.*, *Koord. Khim.*, 1989, **15**, 110, (*synth*)
Kasahara, Y. *et al.*, *Chem. Lett.*, 1990, 381, (*reactions*)