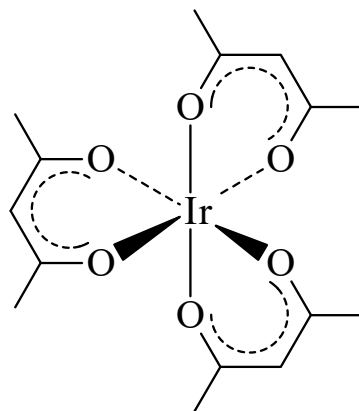




>>Entry Name: Tris(2,4-pentanedionato-*O,O'*)iridium, ¹³Cl

Synonym(s): Tris(acetylacetonato)iridium. Iridium(*III*) acetylacetonate. Ir(acac)₃



CAS Registry Number: 15635-87-7

Molecular Formula: C₁₅H₂₁IrO₆

Molecular Weight: 489.547

Accurate Mass: 490.096732

Percentage Composition: C 36.80%; H 4.32%; Ir 39.26%; O 19.61%

Source/Synthesis: May be synth. from aq. IrCl₃·3H₂O + Hacac at pH 4-5 under reflux for 30 min.

Use/Importance: Commercially available. Catalyst for hydrogenation of aromatic sulfur compds.

Physical Description: Air-stable orange-yellow cryst. (hot MeOH)

Melting Point: Mp 269-271°

Boiling Point: Subl. 260° *in vacuo*

Solubility: Sol. toluene, CHCl₃, Me₂CO, MeCN, MeOH, EtOAc; spar. sol. H₂O

Aldrich: 33335-2

Other: Gelest AKI380

>>Variant: Δ-form

CAS Registry Number: 86496-23-3

Molecular Formula: C₁₅H₂₁IrO₆

Molecular Weight: 489.547

Accurate Mass: 490.096732

Percentage Composition: C 36.80%; H 4.32%; Ir 39.26%; O 19.61%

>>Variant: Λ-form

CAS Registry Number: 60133-04-2

Molecular Formula: C₁₅H₂₁IrO₆

Molecular Weight: 489.547

Accurate Mass: 490.096732

Percentage Composition: C 36.80%; H 4.32%; Ir 39.26%; O 19.61%

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