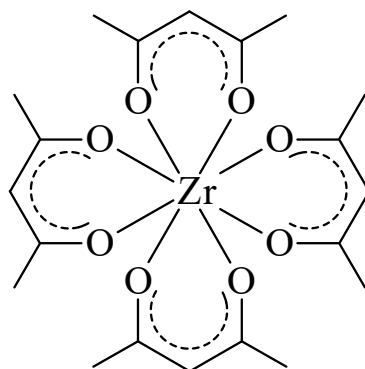




>>Entry Name: Tetrakis(2,4-pentanedionato-*O,O'*)zirconium(*IV*), 11Cl

Synonym(s): Tetrakis(acetylacetonato)zirconium(*IV*). Zirconium(*IV*) acetylacetonate. $\text{Zr}(\text{acac})_4$



CAS Registry Number: 17501-44-9

Molecular Formula: $\text{C}_{20}\text{H}_{28}\text{O}_8\text{Zr}$

Molecular Weight: 487.66

Accurate Mass: 486.083123

Percentage Composition: C 49.26%; H 5.79%; O 26.25%; Zr 18.71%

Source/Synthesis: Synth. e.g. by mixing ZrCl_4 and 2,4-pentanedione in Et_2O

Use/Importance: Cross-linking agent; catalyst component

Physical Description: Colourless solid; polym. at 280° and dec. at $>300^\circ$

Boiling Point: Subl. 190°

Solubility: Sol. EtOH , C_6H_6 , toluene

Hazard & Toxicity: LD_{50} (mus, ipr) 316 mg/kg

Aldrich: 33800-1

Fluka: 96580

Other: Gelest AKZ970

References:

Silverton, J.V. *et al.*, *Inorg. Chem.*, 1963, **2**, 243, (*cryst struct*)

Allard, B., *J. Inorg. Nucl. Chem.*, 1976, **38**, 2109, (*synth, cryst struct*)

Volkov, S.V. *et al.*, *Ukr. Khim. Zh. (Russ. edn.)*, 1983, **49**, 682; *CA*, **99**, 98202y, (*synth, props*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PBL750