



>>Entry Name: Zirconium(IV) acetate

Synonym(s): Acetic acid zirconium(4+) salt. Tetrakis(acetato)zirconium. Zirconium(IV) ethanoate

CAS Registry Number: 7585-20-8

Extra CAS Registry Numbers(s): 4229-34-9

$\text{Zr}(\text{OAc})_4$

Molecular Formula: $\text{C}_8\text{H}_{12}\text{O}_8\text{Zr}$

Molecular Weight: 327.402

Accurate Mass: 325.957923

Percentage Composition: C 29.35%; H 3.69%; O 39.09%; Zr 27.86%

Source/Synthesis: Synth. from ZrCl_4 and AcOH in boiling C_6H_6 , or from $\text{Zr}(\text{OEt})_4$ and glacial AcOH in EtOH under vacuum

Use/Importance: Used as catalyst for oxidn. of picoline; in sealants and adhesives; in prep. of shaped zirconia particles; in grooming compds. for cats and dogs

Physical Description: Stable white powdery solid

Solubility: Sol. H_2O , EtOH

Other Data: Dec. under reduced pressure to give Ac_2O and basic diacetate

Aldrich: 41380-1

References:

Sono, K. *et al.*, *Nagoya Kogyo Gijutsu Shikensho Hokoku*, 1956, **5**, 142; *CA*, **54**, 17302b, (*synth*)

U.K. Pat., 1957, 784 852; *CA*, **52**, 7344h, (*synth*)

Kapoor, R.N. *et al.*, *J. Indian Chem. Soc.*, 1958, **35**, 157, (*synth*)

U.K. Pat., 1958, 800 160; *CA*, **53**, 7016h, (*synth*)

U.S. Pat., 1963, 3 076 831; *CA*, **59**, 1493a, (*synth*)