



>>Entry Name: Zirconium ethoxide

Synonym(s): Ethanol zirconium(4+) salt, 9Cl. Tetraethoxyzirconium. Zirconium tetraethoxide

CAS Registry Number: 18267-08-8

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

Molecular Formula: $\text{C}_8\text{H}_{20}\text{O}_4\text{Zr}$

Molecular Weight: 271.468

Accurate Mass: 270.040863

Percentage Composition: C 35.40%; H 7.43%; O 23.57%; Zr 33.60%

Source/Synthesis: Synth. from $\text{ZrCl}_6^{2(-)} + \text{EtOH} + \text{NH}_3$

Use/Importance: Used for formn. of ZrO_2 or mixed oxides for film coatings

Physical Description: Moisture-sensitive

Boiling Point: Bp₅ 235°

References:

Bradley, D.C. *et al.*, *J.C.S.*, 1950, 3450; 1952, 2032; 4204, (*synth, reactions*)

Bradley, D.C. *et al.*, *Prog. Inorg. Chem.*, 1960, **2**, 303, (*rev*)