



>>Entry Name: Zirconium hydroxide (Zr(OH)₄)

Synonym(s): Zirconium tetrahydroxide

CAS Registry Number: 14475-63-9

Related CAS Registry Numbers(s): 12688-15-2

Zr(OH)₄

Molecular Formula: H₄O₄Zr

Molecular Weight: 159.253

Accurate Mass: 157.915663

Percentage Composition: H 2.53%; O 40.19%; Zr 57.28%

Source/Synthesis: May be synth. by adding a base to any water soluble Zr(IV) compd. or electrochemically

Use/Importance: Widely used e.g. in synth. of ZrO₂, for coprecipitation of heavy metals, as an absorbent, for glass polishing

Physical Description: White, amorphous solid

Aldrich: 46417-1

References:

Sharygin, L.M. *et al.*, *Kolloidn. Zh.*, 1981, **43**, 812; *CA*, **95**, 122966b, (*electrochem synth*)

Pochtarev, A.N., *Zh. Prikl. Khim. (Leningrad)*, 1983, **56**, 1948; *CA*, **99**, 168473z, (*synth*)

Baryshnikov, N.V. *et al.*, *Tsvetn. Met. (Moscow)*, 1985, 64; *CA*, **102**, 206016t, (*synth*)