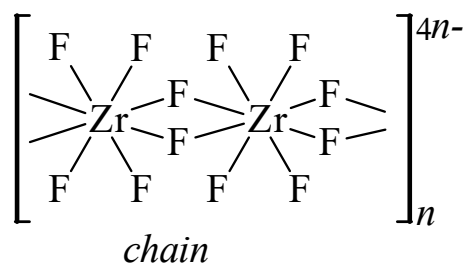




>>Entry Name: Hexafluorozirconate(IV)(2-), 11Cl



CAS Registry Number: 20160-85-4

Molecular Formula: $\text{F}_6\text{Zr}^{2(-)}$

Molecular Weight: 205.214

Accurate Mass: 203.895121

Percentage Composition: F 55.55%; Zr 44.45%

Source/Synthesis: Synth. from ZrF_4 and the appropriate fluoride at high temp.

>>Derivative: Di-H compd.

Synonym(s): Fluozirconic(IV) acid

CAS Registry Number: 12021-95-3

Molecular Formula: $\text{F}_6\text{H}_2\text{Zr}$

Molecular Weight: 207.23

Accurate Mass: 205.910771

Percentage Composition: F 55.01%; H 0.97%; Zr 44.02%

Source/Synthesis: Phase in the $\text{HF-ZrF}_4\text{-H}_2\text{O}$ system

Use/Importance: Included in coating baths for metals for improved corrosion resistance and paintability

Physical Description: Cryst. + $2\text{H}_2\text{O}$

>>Derivative: Di- NH_4 salt

Synonym(s): Ammonium hexafluorozirconate(IV)

CAS Registry Number: 16919-31-6

Molecular Formula: $\text{F}_6\text{H}_8\text{N}_2\text{Zr}$

Molecular Weight: 241.291

Accurate Mass: 239.963869

Percentage Composition: F 47.24%; H 3.34%; N 11.61%; Zr 37.81%

Use/Importance: Commercially available. Flux; used in anticorrosion treatment of metals; forms ultrafine metal powder by thermal dec., used as additive in dental impression materials

Physical Description: Rhombic or hexagonal white cryst.

Aldrich: 39729-6

Fluka: 9826

>>Derivative: Di-K salt

Synonym(s): Potassium hexafluorozirconate(IV). Potassium zirconium fluoride (K_2ZrF_6), 9Cl

CAS Registry Number: 16923-95-8

Molecular Formula: $\text{F}_6\text{K}_2\text{Zr}$

Molecular Weight: 283.411

Accurate Mass: 281.822535

Percentage Composition: F 40.22%; K 27.59%; Zr 32.19%

Source/Synthesis: Also synth. by heating ZrSiO_4 , K_2SiF_6 and KCl to 650-850°

Use/Importance: Used to fire-proof natural fibres

Physical Description: White solid

Aldrich: 33668-8

>>Derivative: Ba salt

Synonym(s): Barium hexafluorozirconate(IV). Barium zirconium fluoride (BaZrF_6), 9Cl

CAS Registry Number: 56082-13-4

Molecular Formula: BaF_6Zr

Molecular Weight: 342.541

Accurate Mass: 341.800353

Percentage Composition: Ba 40.09%; F 33.28%; Zr 26.63%

Use/Importance: Forms glasses, esp. containing lead. Chain struct. retained in glasses

Physical Description: White solid