



>>Entry Name: Zirconium tellurides

Molecular Formula: [TeZr]

>>Variant: Zirconium telluride (ZrTe₂), 11Cl

CAS Registry Number: 32321-65-6

Molecular Formula: Te₂Zr

Molecular Weight: 346.424

Accurate Mass: 349.717161

Percentage Composition: Te 73.67%; Zr 26.33%

Source/Synthesis: Synth. from the elements at 600° or 800°

Physical Description: This phase has a wide range of stoichiometry

>>Variant: Zirconium telluride (ZrTe₃), 11Cl

CAS Registry Number: 39294-10-5

Molecular Formula: Te₃Zr

Molecular Weight: 474.024

Accurate Mass: 479.62339

Percentage Composition: Te 80.76%; Zr 19.24%

Source/Synthesis: Synth. by vapour phase transport with I₂ after heating the elements to 600°

>>Variant: Zirconium telluride (ZrTe₅)

Synonym(s): Telluroxo(tetratelluro)zirconium, 11Cl

CAS Registry Number: 75178-26-6

Molecular Formula: Te₅Zr

Molecular Weight: 729.224

Accurate Mass: 739.435848

Percentage Composition: Te 87.49%; Zr 12.51%

Source/Synthesis: Synth. by heating Te and Zr in a sealed silica ampoule at 500° for 7 days

Use/Importance: Cathode in secondary lithium cells

Physical Description: Semi-metal

Melting Point: Mp 828 dec.°

References:

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