



>>Entry Name: Titanium zirconium oxide (TiZrO₄), 9CI
Synonym(s): Zirconium orthotitanate. Zirconium titanate(IV)

CAS Registry Number: 12036-70-3
ZrTiO₄

Molecular Formula: O₄TiZr
Molecular Weight: 203.102
Accurate Mass: 201.83231
Percentage Composition: O 31.51%; Ti 23.57%; Zr 44.92%

Source/Synthesis: Synth. by fusing ZrO₂ + TiO₂

Use/Importance: Refractory

Physical Description: Cryst.

Melting Point: Mp 1820°

References:

Brown, F.H., *J. Am. Ceram. Soc.*, 1954, **37**, 129-132, (*synth*)
Blasse, G., *Z. Anorg. Allg. Chem.*, 1966, **345**, 222-224, (*cryst struct*)
Siggel, A. *et al.*, *Z. Anorg. Allg. Chem.*, 1990, **582**, 93-102, (*synth, cryst struct*)