



>>Entry Name: Zinc tungstate (ZnWO₄)

Synonym(s): Tungsten zinc oxide (WZnO₄), 9CI

CAS Registry Number: 13597-56-3

ZnWO₄

Molecular Formula: O₄WZn

Molecular Weight: 313.238

Accurate Mass: 311.859733

Percentage Composition: O 20.43%; W 58.69%; Zn 20.88%

Source/Synthesis: Phase in the ZnO-WO₃ system

Use/Importance: Used as a scintillator

Physical Description: Light red-brown cryst. Luminescent

Melting Point: Mp 1216°

References:

Sleight, A.W. *et al.*, *Acta Cryst. B*, 1972, **28**, 2899, (*cryst struct*)

Lesne, J.P. *et al.*, *Ann. Chim. (Paris)*, 1974, **9**, 57, (*ir, Raman*)

Lyon, W.G. *et al.*, *J. Chem. Thermodyn.*, 1974, **6**, 781, (*thermodyn*)

Yanushkevitch, T.M. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1978, **23**, 1372, (*synth, props*)

Oi, T. *et al.*, *Appl. Phys. Lett.*, 1980, **36**, 278