>>**Entry Name: Zinc iodate**

CAS Registry Number: 7790-37-6

$Zn(IO_3)_2$

Molecular Formula: I_2O_6Zn
Molecular Weight: 415.195
Accurate Mass: 413.707581
Percentage Composition: I 61.13%; O 23.12%; Zn 15.75%

Use/Importance: Topical antiseptic
Solubility: Sol. NH_3, dil. HNO_3, H_2O (approx. 0.87g per 100 cm^3)
Other Data: Dec. at 600°

>>**Derivative:** Dihydrate

CAS Registry Number: 13986-19-1
Molecular Formula: $H_4I_2O_8Zn$
Molecular Weight: 451.226
Accurate Mass: 449.728711
Percentage Composition: H 0.89%; I 56.25%; O 28.37%; Zn 14.49%
Source/Synthesis: Synth. from $ZnSO_4$ and $NaIO_3$ in H_2O
Physical Description: White cryst. or powder (H_2O)
Solubility: Sol. HNO_3, NH_4OH; spar. sol. H_2O
Other Data: Dehydrates at 200°

References:

Ephraim, F. *et al.*, *Ber.*, 1915, **48**, 45
Gmelin Handbook Inorg. Chem., *Syst. No.* 32, 1956, 902, *(rev, bibl)*
Rocchioccioli, C. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1960, **250**, 1232, *(ir)*
Grechishkin, V.S. *et al.*, *Zh. Strukt. Khim.*, 1974, **15**, 624, *(nqr)*
Lepeshkov, I.N. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1977, **22**, 1232; 1979, **24**, 1412, *(dihydrate, thermal anal, ir, phase system)*
Tang, D.S. *et al.*, *Wuli Xuebao*, 1981, **30**, 234, *(powder struct)*
Wang, J. *et al.*, *Huaxue Xuebao*, 1982, **40**, 985, *(cryst struct)*
Shishkin, V.A. *et al.*, *J. Mol. Struct.*, 1982, **83**, 349, *(I-127 nqr, monohydrate)*