



>>Entry Name: Tetrazinc dodecaborate heptahydrate

Synonym(s): Boron zinc oxide ($B_6Zn_2O_{11}$), hydrate, 11Cl, 10Cl, 9Cl

CAS Registry Number: 12447-61-9

Related CAS Registry Numbers(s): 12280-02-3 12513-27-8

Extra CAS Registry Numbers(s): 12767-90-7

$4ZnO \cdot 6B_2O_3 \cdot 7H_2O$

Molecular Formula: $B_{12}H_{14}O_{29}Zn_4$

Molecular Weight: 869.385

Accurate Mass: 865.790325

Percentage Composition: B 14.92%; H 1.62%; O 53.37%; Zn 30.09%

Use/Importance: Commercially available as fire retardant compd. Used in plastics

Physical Description: Colourless solid

Solubility: Spar. sol. H_2O

Other Data: Retains H_2O molecules to temps. below 250°

References:

Fr. Pat., 1969, 1 560 173; *CA*, 1969, **71**, 83098

U.S. Pat., 1970, 3 549 316; *CA*, 1970, **72**, 23010