



>>Entry Name: Zinc nitrate

CAS Registry Number: 7779-88-6

Related CAS Registry Numbers(s): 56374-96-0

$\text{Zn}(\text{NO}_3)_2$

Molecular Formula: $\text{N}_2\text{O}_6\text{Zn}$

Molecular Weight: 189.4

Accurate Mass: 187.904783

Percentage Composition: N 14.79%; O 50.68%; Zn 34.52%

Source/Synthesis: Synth. from Zn and N_2O_4 or by heating hydrate at *ca.* 130° in atm. of N_2O_5

Physical Description: Cryst.

Solubility: Sol. H_2O ; v. sol. EtOH

Hazard & Toxicity: Powerful oxidiser

Aldrich: 36142-9

Fluka: 96456

Sigma: Z1253

>>Derivative: Monohydrate

Physical Description: Solid

Melting Point: Mp 73.9°

>>Derivative: Dihydrate

Synonym(s): Zinc nitrate dihydrate. Diaquabis(nitrato-*O*)zinc

CAS Registry Number: 19154-64-4

Molecular Formula: $\text{H}_4\text{N}_2\text{O}_8\text{Zn}$

Molecular Weight: 225.43

Accurate Mass: 223.925913

Percentage Composition: H 1.79%; N 12.43%; O 56.78%; Zn 29.01%

Source/Synthesis: Synth. from ZnO and fuming HNO_3

Physical Description: Cryst.

Melting Point: Mp 55.4°

Other Data: Struct. contains ZnO_6 octahedra (4O from 4NO_3 and 2O from H_2O)

>>Derivative: Tetrahydrate

CAS Registry Number: 19154-63-3

Source/Synthesis: Synth. from ZnO + fuming HNO_3

Physical Description: Cryst.

Melting Point: Mp 44.7°

Other Data: Struct. contains ZnO_6 octahedra (4O from H_2O and 2O from NO_3)

>>Derivative: Hexahydrate

CAS Registry Number: 10196-18-6

Physical Description: Cryst.

Melting Point: Mp 36.4°

Other Data: Dehydrates at 27-145°

Aldrich: 23000-6

Fluka: 96482

Sigma: Z2375

>>Derivative: Hydrate

CAS Registry Number: 13778-30-8

Other Data: Contains variable amts. H_2O

References: