>>**Entry Name: Zinc phosphate ($Zn(H_2PO_4)_2$)**
Synonym(s): Zinc phosphate (1:2), 9Cl, 8Cl. Zinc bis(dihydrogenphosphate). Zinc orthophosphate

CAS Registry Number: 13598-37-3
Related CAS Registry Numbers(s): 85601-22-5
$Zn(H_2PO_4)_2$

Molecular Formula: $H_4O_8P_2Zn$
Molecular Weight: 259.364
Accurate Mass: 257.867289
Percentage Composition: H 1.55%; O 49.35%; P 23.88%; Zn 25.21%

Source/Synthesis: Obt. from dihydrate at 60-150°
Physical Description: Irregular colourless cryst. with strong birefringence

>>**Derivative:** Dihydrate

CAS Registry Number: 13986-21-5
Molecular Formula: $H_8O_{10}P_2Zn$
Molecular Weight: 295.395
Accurate Mass: 293.888419
Percentage Composition: H 2.73%; O 54.16%; P 20.97%; Zn 22.14%
Source/Synthesis: Obt. from Zn + H_3PO_4 aq.; or from ZnO + H_3PO_4 at low temp.; or Zinc phosphate ($Zn_3(PO_4)_2$) HTN33-Y + H_3PO_4 aq.
Physical Description: Colourless cryst. (rhombs)
Solubility: Dissolves incongr. → Zinc phosphate ($Zn_3(PO_4)_2$) HTN33-Y
Other Data: Monoclinic. Dehydrates at 60-150°, when condensations then begin. Readily forms isol. addition salts with H_3PO_4. Dec. in H_2O

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