



## TECHNICAL DATA SHEET

**Product Name:** Zinc Picolinate

**CAS No.:** 17949-65-4

**Molecular Formula:** C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>O<sub>4</sub>Zn

**Molecular Weight:** 309.58 g/mol

**EINECS No.:** 605-860-6

### Product Description

Zinc Picolinate is an organic zinc compound formed by the chelation of zinc with picolinic acid. It is widely recognized for its excellent bioavailability compared to other zinc forms such as zinc oxide or zinc sulfate. Zinc Picolinate is commonly used in dietary supplements and functional foods to support immune system, skin health, reproductive functions, and overall metabolism.

### Typical Specifications

Parameter	Specification
Appearance	White or off-white powder
Assay (Zn content)	20.0 – 22.0 %
Loss on Drying	≤ 5.0 %
Heavy Metals (Pb)	≤ 10 ppm
Arsenic (As)	≤ 3 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 0.1 ppm
Solubility	Slightly soluble in water, soluble in dilute acids

### Applications

**Nutritional Supplements:** Used as a highly bioavailable zinc source in capsules, tablets, and powders.

**Food Additives:** Incorporated into functional foods for zinc fortification.

**Pharmaceutical Industry:** Ingredient in formulations targeting immunity, skin health, and reproductive health.

### Packaging & Storage

**Packaging:** 25 kg fiber drum with inner PE bag, or customized packaging upon request.

**Storage:** Keep tightly closed in a cool, dry place away from moisture and direct sunlight.

**Shelf Life:** 2 years under recommended storage conditions.

### Safety & Handling



Zinc Picolinate is generally regarded as safe when used in regulated nutritional supplement dosages.

Avoid inhalation of dust. Use gloves and protective equipment when handling in bulk.

Refer to MSDS for detailed safety instructions.

**Shelf Life**

**2 years** under recommended storage conditions.