

# Potassium Nitrite

## Specifications

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Property	Value
CAS Number	7758-09-0
Molecular Formula	KNO <sub>2</sub>
Molecular Weight	85.11
Appearance	White crystalline granule

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Item	Superior Grade	Industry Grade
Assay	97.0% min	96.0% min
Chlorides	0.2% max	0.22% max
Sulfates	0.02% max	0.02% max
Sodium (Na)	2.0% max	2.5% max
Iron (Fe)	0.005% max	0.005% max
Heavy Metal (Pb)	0.005% max	0.005% max
Insoluble	0.01% max	0.02% max
Moisture	2.0% max	2.5% max
pH	7-10	7-10

## Applications

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Potassium Nitrite is a crystalline material with an off-white to straw color. It is hygroscopic, deliquescent, and very soluble in water. It decomposes in acid solutions to form unstable nitrous acid. It is sold as a moist crystal to help delay the onset of caking. Potassium Nitrite is used for carbon dioxide removal systems in ammonia synthesis. Ingredient of heat transfer salts in chemical manufacture, such as melamine crystal for plastics. Analytical reagent, e.g. procedures for amino acids, cobalt, iodine and urea. In metallurgical industries, Potassium Nitrite is used as a corrosion inhibitor. In petroleum industries. It is used as an ingredients of heat transfer media in oil field applications. Porcelain enamel: glass frit for enamel glazing.

## **Packaging**

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Packaged in 25/1000kg net weight polypropylene or polyethylene plastic bags, or as required by customer.

## **Storage and Handling**

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Store in a cool, dry, and well-ventilated location. Keep product sealed and away from incompatible materials. Avoid contact with eyes, skin, and clothing. Wear protective articles as appropriate. In case of contact, rinse cautiously with water for several minutes. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Consult a physician immediately if swallowed.