

High purity sodium nitrate NaNO_3



High purity sodium nitrate

Molecular formula: NaNO_3

Executive standard: GB / t4553-2002

High pure sodium nitrate, with a melting point of 306.8°C and a density of $2.257 \text{ g / cubic cm}$ (at 20°C), are colorless transparent or white diamond crystal. It tastes bitter and salty, easily soluble in water and liquid ammonia, slightly soluble in glycerol and ethanol, easy to moisture hydrolysis, especially when containing a small amount of sodium chloride impurities, sodium nitrate hydrolysis is greatly increased. When dissolved in water, its solution temperature decreases and the solution is neutral. Upon heating, sodium nitrate is readily decomposed into sodium nitrite and oxygen. Sodium nitrate is combustible and must be stored in a cool and ventilated place. Oxidation, friction or impact with organic matter can cause combustion or explosion. Very little toxicity, but harmful to the human body!

Name of index	Unit	Grade
Sodium nitrite (NaNO_3) content% (dry basis)	$\% \geq$	99.9

Water	% ≤	0.3
Water insoluble matter	% ≤	0.01
NaNO ₃ (dry base)	% ≤	0.02

Application

Application: Enamel industry is used as flux, oxidant and raw material for preparing enamel powder. Glass industry is used as decolorizer, defoamer, clarifier and oxidation flux of various glass products. The food industry is used as a chromogenic agent for meat processing, which can prevent meat deterioration and play a role in seasoning. Chemical fertilizer industry is used as fertilizer for acid soil, especially for root crops, such as sugar beet, radish, etc. The dye industry is used as a raw material for the production of dyes. Metallurgical industry is used as heat treatment agent for steel making and aluminum alloy. The pharmaceutical industry is used as a culture medium for penicillin. Cigarette industry is used as combustion supporting agent of tobacco. Used as a chemical reagent in analytical chemistry. In addition, it is also used in the production of explosives.





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