AQUABOND
Chemistry for Tomorrow

Summary Technical Data Sheet

Sodium Nitrate 99%

Product Name: Sodium Nitrate 99%

Synonym: Sodium(I) nitrate

CAS Number: 7631-99-4

Formula: $NaNO_3$

Molecular weight: 84.99 g/mol

Appearance: white crystalline solid

Melting point: 308 °C

Boiling point: 380 °C

Solubility: 91 g/100g water at 25 °C

Density: 2.3 g/cm^3 at 25 °C

Product Specifications

Properties	Specifications
Content (dry basis)	≥ 99.3 %
pH	6.0 – 7.0
Moisture	< 0.2 %
Water insoluble matters	≤ 0.045 %
Sodium Chlroides (Cl) (dry basis)	≤ 0.20 %
Sodium Nitrite ($NaNO_2$) (dry basis)	≤ 0.02 %
Sodium Carbonate (Na_2CO_3) (dry basis)	≤ 0.10 %
Iron (Fe)	≤ 0.005 %

Sodium Nitrate is a white crystalline powder and a source of nitrate anion (NO_3^-), which is useful in industrial production of fertilizers, pyrotechnics, high-strength glass, enamels for glass and pottery, and preservatives.

Sodium Nitrate is used for etching of metals and descaling of steel and other metal surfaces. Sodium Nitrate has an oxidizing effect and can effectively disintegrate scale deposits, which can then be removed with water and acid treatment. The advantage of Sodium Nitrate in descaling is that it acts on the scale and does not result in the loss of metal and it can be effective without the need for initial sandblasting. Metal pickling of machinery parts using Sodium Nitrate is effective in removing grease, oil, dyes, and rust.

Storage and Handling: Keep containers tightly closed in a cool, dark, ventilated place.

Packaging: 55 lb **/** 25 kg

Transport Regulations: UN1498 Sodium nitrate, Class 5.1, Packing Group III.

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.
Revised 2020/01/06

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