

# Technical Data Sheet

## Sodium Nitrate

<b>Product</b>	: Sodium Nitrate
<b>Chemical Formula</b>	: NaNO <sub>3</sub>
<b>Molecular Weight</b>	: 84.99
<b>EC No.</b>	: 231-554-3
<b>CAS No.</b>	: 7631-99-4

### General Information:

Sodium nitrate are fine crystalline white slight hygroscopic odourless powder that is soluble in water upon heating. It is stable in neutral or alkaline solutions

### Physical properties:

Parameters	
Physical state	Solid
Appearance	White crystalline powder
Melting point	307 °C
Stability	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials.
Specific Gravity	2.257g/cm <sup>3</sup>
Solubility water	780 gpl (At 15 C)

### Solubilities of NaNO<sub>3</sub> in Water:

Substance	Formula	Phase	Temp °C	%solubility
Sodium Nitrate	NaNO <sub>3</sub>	Solid phase	0	73
			10	80
			20	88
			30	95
			40	104
			50	114
			60	124
			70	NA
			80	148
			90	NA
			100	180

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Substance	Formula	Temp °C	wt.%NaNO3 satd. Solution	Density of salt. solution
Sodium Nitrate	NaNO <sub>3</sub>	-18.1	38.07	NA
		-9.9	39.8	NA
		0	42.23	1.3532
		10	44.54	1.3683
		20	46.8	1.3834
		30	49.02	1.3986
		40	51.2	1.4139
		60	55.48	1.4447
		80	59.67	1.4759
		100	63.77	1.5074
		110	65.8	1.5231
		119	67.62	1.5374
		136	71.5	NA

## Product quality specification:

Sr Number	Parameter	Standard Grade Un coated	Technical Grade Uncoated grade	Std grade coated grade
01	Physical Appearance	White or slightly off white to light cream colour powder.	White or slightly off white to light cream colour powder.	White or slightly off white to light cream colour powder.
02	Purity on Dry basis	99.00 %w/w Min.	99.00 %w/w Min.	98.00 %w/w Min.
03	Loss on Drying	0.50%w/w Max.	0.50%w/w Max.	0.50%w/w Max.
04	Alkalinity as Na <sub>2</sub> CO <sub>3</sub>	0.05%w/w Max.	0.05%w/w Max.	0.05%w/w Max.
05	Chloride as Cl	0.10%w/w Max.	0.10%w/w Max.	0.10%w/w Max.
06	Sodium Nitrite	0.20%w/w Max.	0.03%w/w Max.	0.03%w/w Max.
07	Sulphate as SO <sub>4</sub>	0.05%w/w Max.	-	-
08	Iron As Fe	0.005%w/w Max.	0.005%w/w Max.	0.005%w/w Max.
09	Anticaking agent	-	-	0.5 to 1.0%w/w



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## Packing information:

Grade	Packing
StandardGrade -coated	50 Kg HDPE woven bags with LDPE liner

## Product safety information:

Sodium nitrate may irritate the skin or eyes. Contact with combustible material may cause fire. Although it is used in small amounts as a food preservative, direct ingestion can irritate the mouth, esophagus or stomach, cause other toxic effects and can even be fatal. Inhaling sodium nitrate dusts are swallowed or inhaled, there is a risk of methemoglobin formation and cyanosis. It is therefore essential to avoid inhaling and swallowing

As with any chemical, sodium nitrate requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling the product with the appropriate safety and handling precautions. This information is available in the Material Safety Data Sheet.

## Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.

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## Customer Service:

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