

# Potassium nitrate technical

**Normative document:** GOST 19790-74

**Chemical formula:**  $\text{KNO}_3$

## Application

According to its application potassium nitrate technical is produced in the following grades:

grade B – for production of gunpowder and special mixtures, for decolorization and clarification of crystal glass, for glassware reinforcement.

grade V – for production of enamels, thermal salts and heat-transfer agents, for decolorization and clarification of industrial glass, for retail trading.

## Storage and transportation

Potassium nitrate technical is stored in packages in closed warehouses.

Potassium nitrate technical is transported by top-covered r/w cars, top-covered deck vessels and top-covered trucks in accordance with cargo regulations applicable to a particular transportation mode.

Handling, transportation and storage of potassium nitrate technical together with inflammable matters, mineral acids, cyanic potassium, rhodanides as well as mixing it with sawdust, straw, coal, peat and other organic matters are not allowed to avoid spontaneous ignition, fire and explosion.

**Guaranteed storage life** is not limited.

## Specifications

Description	Value	
	Grade B	Grade V
Appearance	White crystals of yellowish-grayish colour	
Potassium nitrate, %, min	99,90	99,85
Water, %, max	0,08	0,1
Chlorine salts as NaCl, %, max	0,017	0,03
Carbonates as $\text{K}_2\text{CO}_3$ , %, max	0,01	0,01
Water insoluble residue, %, max	0,01	0,03
Components oxidized with potassium permanganate as $\text{KNO}_2$ , %, max	0,01	0,01
Calcium and magnesium salts, as Ca, %, max	0,002	0,02
Iron, %, max	0,005	–

**Produced at OSTCHEM production site:** PrJSC “SEVERODONETSK AZOT ASSOCIATION”

