

**PRODUCT DATA SHEET - SPECIALTY FERTILIZERS**

# POTASSIUM NITRATE

## Hydroponical Grade - Crystallized

CAS N° 7757- 79 - 1 (Contains an Anticaking Agent)

<b>GENERAL DESCRIPTION</b>	
CHEMICAL FORMULA	KNO <sub>3</sub>
APPEARANCE	White Crystals

<b>CHEMICAL SPECIFICATIONS</b>	
<b>GUARANTEED</b>	
PURITY as KNO <sub>3</sub>	99.0 min
NITROGEN (100% NITRATE) N %	13.7 min
POTASSIUM as K <sub>2</sub> O %	46.3 min
CHLORIDE Cl %	0.2 max

<b>CHEMICAL SPECIFICATIONS</b>	
<b>TYPICAL</b>	
NITROGEN (100% NITRATE) N %	13.8
POTASSIUM as K <sub>2</sub> O %	46.3
SODIUM Na %	0.1
MAGNESIUM Mg %	< 0.11
CALCIUM Ca %	< 0.05
SULFATE SO <sub>4</sub> %	< 0.25
BORON B %	< 0.02
IODATE IO <sub>3</sub> %	< 0.01
PERCHLORATE ClO <sub>4</sub> %	< 0.005
INSOLUBLES %	< 0.02

<b>TYPICAL SIEVE ANALYSIS</b>			
(CUMULATIVE %)			
US Standard Sieve	Tyler	mm	
+35	+32	0.50	14%
+45	+42	0.36	24%
+60	+60	0.25	54%
+100	+100	0.15	89%
+200	+200	0.08	97%

<b>PHYSICAL PROPERTIES</b>	
MELTING POINT	≈333 °C
SOLUBILITY (in water at 20 °C)	≈ 30 g/ 100 cm <sup>3</sup>
DENSITY (Bulk)	1.14 ton (metric) /m <sup>3</sup>
ANGLE OF REPOSE	34 °
ELECTRIC CONDUCTIVITY (1 g/L solution at 20°C)	1.30 mS/cm
SPECIFIC GRAVITY	2.110

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