

SPECIFICATION DATA SHEET

POTASSIUM NITRATE - NOP HORTICULTURE GRADE

DESCRIPTION

Synonym	Potassium Nitrate – Horticulture grade		
Chemical formula	KNO ₃		
Molecular weight	101.1		
International codification	CAS n° : 7757-79-1	EINECS: 231-818-8	
	Transport : Class 5.1 – UN 1486	Customs duty n°: 2834 2100	
		Packing Group : III	

PRODUCT CHARACTERISTICS

Grade : 13 – 0 – 46				
Appearance : White crystalline powder				
Chemical Properties	Unit	Typical Analysis	Specification	Method
Total K ₂ O	%	46,3	45,3 min.	} AOAC (15th ed 1990) N°983.02
Total K	%	38,4	37,6 min.	
Total N	%	13,7	13,0 min.	EEC method N° 2.2.3 (Dewarda)
Impurities content:				
Cl	ppm	500	2000 max.	AOAC (15 th ed 928.02B modified using potentiometric titration)
Na	ppm	500	1500 max.	AOAC By flame absorption spectroscopy as in AOAC 965.09D
Ca	ppm	500	2000 max.	AOAC N°965.09D
P	ppm	200	300 max.	AOAC N°973.55 modified
Pb	ppm	< 0,005	0,005 max.	
Cd	ppm	< 0,0002	0,0002 max.	
Heavy metals	ppm	< 10	10 max.	Food Chemical Codex, National Academy Press, Wash. D.C., 1981, p 517

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Chemical Properties	Unit	Typical Analysis	Specification	Method
Perchlorate	ppm	ND	-	
Hypochlorite	ppm	ND	-	
Nitrite	ppm	ND	-	
Water insolubles	%	0,03	0,05 max.	Residue from 10% water solution (heat to 50°C), and filter through Whatman GF/C
pH (10% solution)	%	5,0 – 7,0		
Purity KNO ₃	%	99		

Physical properties	Unit	Typical Analysis	Specification	
Anticaking agent	%	0,12	0,10 – 0,15	UV spec
Bulk density loose	t/m ³	1,10 - 1,15	1,00 – 1,20	
<u>Sieve analyses</u> :				
Cumulated retained on				
650 µm		10,0		
400 µm		50,0		
190 µm		90,0		
140 µm		95,0		
80 µm		99,0		

Storage	Store the product in a cool and dry place and without contact with combustible materials.
Standard packaging	Big-bags of 1000 kg – Code : 3002682 Bags of 50 kg on shrink-wrapped pallet (heat treated) – Code : 3003684 Bags of 25 kg on shrink-wrapped pallet (heat treated) – Code : 3002681- 3002683 - 3002690

Typical analysis are given for information only. They are not binding and may vary from time to time. Our services have used their best endeavours to ensure the conformity of the Product to the specifications. This should not prevent the user from carrying out any checks that he deems useful. We invite the user to verify, in every case, local legislation related to the use of the product. Our deliveries are governed by our general sales conditions. In order to achieve ongoing production improvements, we reserve the right to modify, with advance notice, the characteristics of our products. We recommend that you check regularly to ensure that this version is still current. In case of any dispute, the reference document will be the one kept by Prayon.

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MAIN APPLICATIONS

- Direct application, NPK and NK granulation or ammonization, NPK and NK bulk blending, liquid and suspension fertilizers, fertigation (sprinkler, mini sprinklers and drip irrigation), foliar sprays, foliar NPK fertilizers, starter and transplant solutions, winter hardener, winter breaking dormancy sprays, flowering inducement sprays. For special industrial uses, as determined by the User.

Place of production: Kemapco – Jordan

Safety: cf. MSDS