

SPECIFICATION DATA SHEET

MONOPOTASSIUM PHOSPHATE – MKP TG

Description

Synonym	MKP - Monobasic potassium orthophosphate, potassium dihydrogen orthorhosphate – Technical grade		
Chemical formula	KH ₂ PO ₄		
Molecular weight	136,1		
International codification	CAS N°: 7778-77-0 CUS N°: 22147	EINECS N°: 231-913-4	Customs duty n°: 3105 60 90

Product characteristics

Grade	MKP Crystal			
Appearance	White hygroscopic crystals			
Chemical Properties	Unit	Typical Analysis	Specification	Method
KH ₂ PO ₄	%	99,7	99 min.	Calculation
P ₂ O ₅	%	52,1	51,6 min.	PLC 20 - Technicon
K ₂ O	%	34,5	34,2 min.	Calculation
pH 1 % solution		4,5	4,3 – 4,7	PLC 07 – pH meter
Loss on desiccation (4 h. at 105 °C)	%	0,05	0,5 max.	PLC 13 – Gravimetry
Insoluble matters	%	0,05	0,2 max.	PLC 03 – Gravimetry
<u>Impurities :</u>				
SO ₃	ppm	< 350,0	700,0 max.	PICP 05 – ICP*
As	ppm	< 0,5	3,0 max.	PICP 04 – ICP*
F	ppm	< 90,0	250,0 max.	PLC 14 – Direct potentiometry
Heavy metals (as Pb)	ppm	5,0	15,0 max.	PLC 08 – test FCC
Pb	ppm	< 5,0	5,0 max.	PICP 05 – ICP*

* ICP: Inductively Coupled Plasma

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Physical properties	Unit	Typical Analysis	Specification	Method
Solubility in water at 20 °C	g/l solution	174		Theoretical (*)
Bulk density	g/cm ³	1,30	1,30 +/- 0,20	ELC 12 Gravimetry

(*) Phosphorus and its compounds (Chemistry), John Van Wazer, Interscience Publishers, Inc – New York, 1958

Storage	Keep in a temperate and dry place. Keep in original packaging. To be used preferably within two years after production. Reclose partially used bags.
Standard packagings	Bulk Big bags on pallets 25 kg valve PE bags on pallets, shrinkwrapped.

Main applications

<ul style="list-style-type: none"> - Hydroponic fertilizer, - Water soluble fertilizers, - Nutrient for yeast and in many other fermentation processes, - Many other industrial processes,
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Place of production: 2870 - Puurs

Safety: cf. MSDS



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**.

Our products are guaranteed GMO free, Dioxin free and free from allergens on the ALBA list. Our Phosphates are of mineral origin and do not contain any animal matter. No animal derived materials are used during manufacturing.