



Specification Dipotassium Phosphate

The following specification is the latest revision (as at 03 Apr 2023) and supersedes all previous specifications for this product code.

Specification Details				
Product Code	DIPOPF3000	CAS Number	7758-11-4	Shelf Life 730 Day
Product	Dipotassium Phosphate			
Pack Size	25 kg net Bags			
Customer Name	Alpha Chemicals Pty Ltd			
Revision	4 (on 28/07/2022)	Std. Compliance	FCC12, JECFA, E340(ii)	
Authorised By	Damien Barrett Quality Assurance Manager	Notes	Complete revision.	

Specifications				
Description	Unit	Typical	Guaranteed	Method
Synonyms: Dipotassium Hydrogen Phosphate; Dipotassium Hydrogen Orthophosphate; Dipotassium Hydrogen Monophosphate				
Chemical Formula: K ₂ HPO ₄				
Formula Weight: 174.18 g/mol				
Appearance: white powder			Conforms	Visual
Identification A - Phosphate			Passes Test	JECFA
Identification B - Potassium			Passes Test	JECFA
Identification C - Orthophosphate			Passes Test	JECFA
PURITY:				
Assay, as K ₂ HPO ₄ on dried basis	%		Min 98.0	JECFA
Solubility: freely soluble in water. Insoluble in Ethanol.			Conforms	
Loss On Drying, 4hrs @ 105 deg C	%		Max 2.0	E340(ii)
Insoluble Substances			Max 0.2	JECFA
pH, 1% solution			8.7 - 9.3	
CHEMICAL IMPURITIES:				
Chloride, Cl	%		Max 0.011	Internal
Fluoride, F	ppm		Max 10	JECFA
Sulfate, SO ₄	%		Max 0.019	Internal
METAL IMPURITIES:				
Arsenic, As	mg/kg		Max 1	E340(ii)
Cadmium	mg/kg		Max 1	E340(ii)
Lead, Pb	mg/kg		Max 1	JECFA
Mercury, Hg	mg/kg		Max 1	E340(ii)
Heavy metal, as Pb	mg/kg		Max 10	Internal
PHYSICAL:				
Bulk Density (loose)	g/mL		0.35 - 0.45	
Particle Size (through 10 Mesh)	%		Min 99.9	
MICROBIOLOGICAL (tested annually):				
Total Aerobic Plate Count	cfu/g	Max 1000		GB 4789.2-2016

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Specifications				
Description	Unit	Typical	Guaranteed	Method
Yeast	cfu/g	Max 50		GB 4789.15-2016 I
Mould	cfu/g	Max 50		GB 4789.15-2016 I
Enterobacteriaceae	cfu/g	Max 10		GB 4789.41-2016 I
Salmonella sp	cfu per 25g	Absent		GB 4789.4-2016
Conforms to FCC12, JECFA, E340(ii)			Conforms	

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