



PRAYLEV™ Aerocal 118

DESCRIPTION

General Description MONOCALCIUM PHOSPHATE MONOHYDRATE White powder or deliquescent crystalline powder		Date effective - edition September, 2010 - 01
Grade Food Grade	E number(s) E 341	Formula $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$
Molecular weight 252	EINECS 231-837-1	CAS number 10031-30-8

PRODUCT CHARACTERISTICS

Chemical properties	Unit	Typical analysis	Specifications	Methods
Assay (Ca)	%	17.3	15.9 - 17.7	QWI.90011
pH solution 1%	----	4.0	3.0 - 4.2	QWI.90052
Loss on drying @ 60°C	%	0.2	1.0 Max.	QWI.90043
Neutralizing Value	----	88	80 - 90	QWI.90073
Impurities content				
Pb	ppm	<1.0	2.0 Max.	QWI.90042
As	ppm	<1.0	3.0 Max.	QWI.90006
F	ppm	<30.0	50.0 Max.	QWI.90030
Heavy metals (as Pb)	ppm	<15.0	15.0 Max.	QWI.90033
Physical properties				
Bulk density	g/cm ³ lbs/ft ³	0.60 37.4	0.52 - 0.72 34.4 - 44.9	QWI.90017 Calculation
Granulometry (USSS)				
Retained on :				
149 µm (100 US mesh)	%	2.8	8.0 Max.	QWI.90064
Thru 74 µm (200 US mesh)	%	88.0	75.0 Min.	

THEORETICAL VALUES

Solubility	Insoluble
CaO content	22.0 %

IDENTIFICATION TEST

Positive tests for calcium and phosphate



PRODUCT SPECIFICATION DATA SHEET



FOOD



PRAYLEV™ Aerocal 118

STORAGE & SHELF LIFE

Store in a cool and dry place. Keep in the packaging of origin, shrink-wrapped.
Best before: 2 years after production date.

KEY PROPERTIES

~ Buffering Agent
~ Sequestrant
~ Nutritional Supplement

APPLICATIONS

~ MCPM is used as a leavening agent in bakery products.
~ MCPM can be used in dough conditioners as a pH regulator and to provide calcium in yeast raised bakery products.
~ MCPM can be used as a calcium and/or phosphorus supplement in pharmaceuticals, multivitamins, and pet/animal food as well as in a wide variety of processed foods and beverages.
~ Calcium Phosphate (mono-, di-, and tribasic; MCP, DCP, and TCP) is Generally Recognized As Safe (GRAS) under 21 CFR 182.1217 and 182.8217 as a multiple purpose food additive and nutrient when used in accordance with good manufacturing practices.
~ Mono-, di-, and tricalcium phosphate have specific approval as components of coatings used on food contact surfaces of packages in 21 CFR 175.300.
~ Calcium phosphate and calcium hydrogen phosphate are classified as stabilizers when migrating from food-packaging surfaces in 21 CFR 181.29.
~ Calcium Phosphate (mono-, di-, and tribasic; MCP, DCP, and TCP) is Generally Recognized As Safe (GRAS) in animal foods under 21 CFR 582.1217 and 582.5217 as a general purpose food additive and as a nutrient and/or dietary supplement when used in accordance with good manufacturing or feeding practices.

Plant location	Augusta, GA-USA
Packaging types	Multiwall bags or supersacks
Handling precautions	see MSDS

CERTIFICATIONS

ISO 9001 (Quality) - Kosher (Pareve, Passover) - Halal

REGULATIONS & STATEMENTS

Meets the requirements of the Food Chemicals Codex (FCC) current edition.
GMO free - Allergen free - BSE/TSE free - Mineral origin

MISCELLANEOUS

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