

Joint Stock Company «Apatit»

Balakovo branch

(BB JSC «Apatit»)

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SPECIFICATION

MONOCALCIUM PHOSPHATE (MCP) FEED GRADE

Edition: JULY 2018

CAS No.:7758-23-8

Appearance: Light-grey, fine-grained flowing powder

Parameters	Unit	Specification/Limits
Fraction of total phosphorus (in terms of P)	%	22.7 min.
Fraction of total phosphorus soluble, % of total phosphorus:		
- in 2-% citric acid	%	95 min.
- in water	%	75 min.
Fraction of total calcium (Ca)	%	16 min.
Fraction of total fluorine (F)	%	0.2 max.
Fraction of total arsenic mass (As)	ppm	10 max.
Fraction of total lead mass (Pb)	ppm	15 max.
Fraction of total cadmium (Cd)	ppm	10 max.
Fraction of total mercury (Hg)	ppm	0.1 max.
Fraction of total moisture mass, (at t 105°C for 3 hours)	%	4.0 max.
Fraction of total insoluble in HCl	%	2.0 max.
Hydrogen ion activity index (1% solution)	pH	3.5 min. – 4.5 max.
Particle size:		
> 2 mm	%	0
0.2 mm – 2.0 mm	%	90 min.
< 0.2 mm	%	10 max.
Dioxin	ng/kg	0.75 max.
Sum of dioxins and dioxin-like PCBs*	ng/kg	1.0 max.
Dioxin-like PCBs*	ng/kg	0.35 max.
Non-dioxin-like PCBs*	µg/kg	10 max.
Radioactivity:		
Sum of Cs-134 and Cs-137	Bq/kg	40 max.

* Polychlorinated biphenyl