



Certificate of Analysis

Sodium Phosphate Dibasic Anhydrous ACS/USP/FCC/BP/EP

Catalog Number: SP1019
Lot Number: 0424904
CAS Number: 7558-79-4
Synonym(s): Disodium hydrogen phosphate, Disodium phosphate, Sodium hydrogen phosphate
Molecular Formula: Na₂HPO₄
Molecular Weight: 141.96
Storage: 15°C – 30°C
Date of Manufacture: July 5, 2018
Retest Period: July 4, 2023

Test	Specification	Result
Appearance (ACS, USP, FCC, BP/EP)	Colorless to white to off-white powder	Conforms
Assay (Dry Basis, ACS)	≥ 99.0%	100.27%
Assay (Dry Basis, USP)	98.0 – 100.5%	100.42%
Assay (Dry Basis, FCC)	≥ 98.0%	100.42%
Assay (Dry Basis, EP/BP)	98.0 – 101.0%	100.42%
Identification (ACS)	To pass test	Conforms
Identification (USP, FCC)		
Reaction of Sodium	To pass test	Conforms
Reaction of Phosphate	To pass test	Conforms
Identification (BP/EP)		
A (Solution S slightly alkaline)	To pass test	Conforms
B (Loss on Drying)	To pass test	Conforms
C (Reaction of Sodium)	To pass test	Conforms
D (Reaction of Phosphate)	To pass test	Conforms
Solubility (USP, FCC)	Freely soluble in water, insoluble in alcohol	Conforms
Solubility (BP/EP)	Freely soluble in water, insoluble ethanol	Conforms
Appearance of 5% Solution (BP/EP)	To pass test	Conforms
pH (5%, ACS)	8.7 – 9.3	8.89
Moisture (LOD, ACS)	≤ 0.2%	0.1%
Moisture (LOD, USP)	≤ 5.0%	0.15%
Moisture (LOD, FCC)	≤ 5.0%	0.14%
Moisture (BP/EP)	≤ 1.0%	0.11%
Insoluble Matter (ACS)	≤ 0.01%	0.003%
Insoluble Substances (USP)	≤ 0.4%	0.003%
Insoluble Substances (FCC)	≤ 0.2%	0.003%
Reducing Substances (BP/EP)	To pass test	Conforms
Pyrophosphate (FCC)	≤ 2.0%	0.6%
Monosodium Phosphate (BP/EP)	≤ 2.5%	< 2.5%



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146
www.gojiraafc.com • sales@gojiraafc.com

Chloride (ACS)	≤ 0.002%	< 0.002%
Chloride (USP)	≤ 0.06%	< 0.002%
Chloride (BP/EP)	≤ 200ppm	< 10ppm
Sulfate (ACS)	≤ 0.005%	< 0.005%
Sulfate (USP)	≤ 0.2%	< 0.005%
Sulfate (BP/EP)	≤ 500ppm	< 50ppm
Heavy Metals (ACS)	≤ 0.001%	< 0.001%
Heavy Metals (USP)	≤ 20ppm	< 10ppm
Heavy Metals (BP/EP)	≤ 10ppm	< 10ppm
Arsenic (USP)	≤ 16ppm	< 3ppm
Arsenic (FCC)	≤ 3mg/kg	< 3mg/kg
Arsenic (BP/EP)	≤ 2ppm	< 2ppm
Fluoride (FCC)	≤ 0.005%	< 0.005%
Iron (ACS)	≤ 0.002%	< 0.002%
Iron (BP/EP)	≤ 20ppm	< 10ppm
Lead (FCC)	≤ 4mg/kg	3.0mg/kg
Endotoxin (USP)	≤ 2.5 EU/g	< 0.06 EU/g
No class 1,2,3 or solvents other than water are used in the manufacture of the product.		
This lot meets the current specifications for USP, FCC, EP, BP.		

Approved by:

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager
Tel: 440-539-7033 Fax: 888-211-5523
john@gojiraafc.com

Date: May 30, 2019