

Certificate of Analysis

Product Name:

Sodium phosphate monobasic dihydrate, *PurReagent Plus*, Meets analytical specification of Ph. Eur., BP, USP, FCC 98-100.5%

Product No.: PSR37209
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 13472-35-0
Molecular Formula: $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$
Molecular Weight: 156.01 g/mol
Date of Mfg.: NA
Date of Exp.: NA

Test	Specification	Result
Appearance	White to Off White Powder or Crystals	White Crystals
Assay (Titration with NaOH- Calc. to the Dried Substance)	98.0 - 100.5 %	99.9 %
Appearance of Solution	Clear Colorless solution	Complies
Fluoride (F)	NMT 10 ppm	< 10 ppm
pH (1%, 20 °C)	4.1 - 5.0	4.5
pH (5 %, 25 °C)	4.2 - 4.5	4.3
Loss on Drying at 130 °C	21.5 - 24.0 %	23.0 %
Water Content	18.0 - 26.5 %	23.0 %
Water Insoluble Matter	NMT 0.2 %	< 0.2 %
Al, Ca and Related Substances	Complies	Complies
Residual solvents	Complies	Complies
Heavy metals (As Pb)	NMT 10 ppm	< 10 ppm
Identification by IR	Conforms to structure	Conforms to structure
Reducing impurities	Complies	Complies
Calcium (Ca)	NMT 0.002 %	< 0.002 %
Cadmium (Cd)	NMT 1 ppm	< 1 ppm
Copper (Cu)	NMT 0.001 %	< 0.001 %
Iron (Fe)	NMT 5 ppm	< 5 ppm
Mercury (Hg)	NMT 1 ppm	< 1 ppm
Magnesium (Mg)	NMT 0.002 %	< 0.002 %
Lead (Pb)	NMT 1 ppm	< 1 ppm
Zinc (Zn)	NMT 0.001 %	< 0.001 %
Arsenic (As)	NMT 1 ppm	< 1 ppm
Chloride (Cl)	NMT 50 ppm	< 50 ppm
Sulfate (SO_4)	NMT 200 ppm	< 200 ppm

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.
For queries on this COA, please contact our technical team at technical@pure-synth.com

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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