

Certificate of Analysis

Product Name: SODIUM PERBORATE TETRAHYDRATE
purum p.a., ≥ 97.0 % RT
Product Number: 71840
Product Brand: Sigma-Aldrich
Molecular Formula: $\text{BNaO}_3 \bullet 4\text{H}_2\text{O}$
Molecular Mass: 153.86
CAS Number: 10486-00-7

TEST	SPECIFICATION	LOT BCBJ4060V RESULTS
APPEARANCE (COLOR)	COLORLESS OR WHITE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	CRYSTALS
REDOX TITRATION	97.0 - 103.0 %	98.2 %
REDOXTITRATION (METHOD)	MEPERMANGANATE TITRATION	PERMANGANATE TITRATION
REMARKS ON TITRATION	ACTIVE OXYGEN ≤ 10 %	ACTIVE OXYGEN 10 %
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR TO ALMOST CLEAR (< 5.5 NTU)	CLEAR (< 3.5 NTU)
SOLUBILITY (METHOD)	0.1G IN 10ML WATER, HOT	0.1G IN 10ML WATER, HOT
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
CALCIUM (ICP)	≤ 200 MG/KG	< 200 MG/KG
CADMIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
COBALT (ICP)	≤ 50 MG/KG	< 50 MG/KG
COPPER (ICP)	≤ 50 MG/KG	< 50 MG/KG
IRON (ICP)	≤ 50 MG/KG	< 50 MG/KG
POTASSIUM (ICP)	≤ 100 MG/KG	< 100 MG/KG
NICKEL (ICP)	≤ 50 MG/KG	< 50 MG/KG
LEAD (ICP)	≤ 50 MG/KG	< 50 MG/KG

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ZINC (ICP)	≤ 50 MG/KG	< 50 MG/KG
TOTAL SULFUR AS SO₄ (ICP)	≤ 1500 MG/KG	< 1500 MG/KG
CHLORIDE (CL)	≤ 500 MG/KG	< 500 MG/KG

QUALITY RELEASE DATE 30 JUL 2012

RECOMMENDED RETEST DATE JUN 2018



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Manager Quality Control

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Sigma-Aldrich warrants, that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice for additional terms and conditions of sale. The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.