

Certificate of Analysis

Product Name:

2-Phosphonobutane-1,2,4-tricarboxylic Acid (PBTCa)

Product Information

- Product Number: PBTCa-CAS37971361-202603
- Batch Number: PBTCa-2026031001
- Brand: SIGALD
- CAS Number: 37971-36-1
- MDL Number: MFCD00002140
- Formula: C₇ H₁₁O₉ P
- Formula Weight: 270.13 g/mol
- Quality Release Date: 10 MAR 2026

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Colorless to pale yellow transparent liquid	Colorless transparent liquid	Visual Inspection
Assay (as PBTCa)	≥ 50.0%	52.3%	Potentiometric Titration
pH Value (1% Aqueous Solution, 25°C)	1.5 - 3.0	2.2	Digital pH Meter
Water Content	≤ 50.0%	47.2%	Karl Fischer Titration
Phosphorus (as PO ₄ ³⁻)	≥ 8.5%	8.8%	Molybdenum Blue Spectrophotometry
Heavy Metals (Pb)	≤ 0.0005%	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.0001%	0.00003%	Atomic Fluorescence Spectrometry (AFS)
Iron (Fe)	≤ 0.001%	0.0004%	Atomic Absorption Spectrometry (AAS)
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product meets the specified industrial standards and is qualified for use.

Issue Date: 10 MAR 2025