

## Certificate of Analysis

**Product Name:** Chlorine Dioxide Aqueous Solution

### Product Information

- Product Number: ClO<sub>2</sub>-CAS10049044-202710
- Batch Number: ClO<sub>2</sub>-2025101501
- Brand: SIGALD
- CAS Number: 10049-04-4
- MDL Number: MFCD00011304
- Formula: ClO<sub>2</sub>
- Formula Weight: 67.45 g/mol
- Quality Release Date: 15 OCT 2025

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Colorless to pale yellow transparent liquid	Pale yellow transparent liquid	Visual Inspection
Available Chlorine Dioxide Content	0.8-1.2%	1.05%	Iodometric Titration (GB/T 20783-2006)
pH Value (25°C)	3.0-5.0	4.2	Digital pH Meter
Density (25°C)	1.01-1.05 g/cm <sup>3</sup>	1.03 g/cm <sup>3</sup>	Hydrometer Method
Heavy Metals (Pb)	≤ 0.0005%	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.0001%	0.00004%	Atomic Fluorescence Spectrometry (AFS)
Mercury (Hg)	≤ 0.000005%	0.000001%	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.00005%	0.00002%	Atomic Absorption Spectrometry (AAS)
Stabilizer Content (as Na <sub>2</sub> CO <sub>3</sub> )	0.5-1.0%	0.7%	Acid-Base Titration
Storage Stability (3 months, 25°C)	≥ 90% Available ClO <sub>2</sub> Retention	94%	Iodometric Titration
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with industrial standards for chlorine dioxide and meets all specified requirements. It is qualified for use.

Issue Date: 15 OCT 2025