RICCA CHEMICAL COMPANY®

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# Certificate of Analysis

## Cobaltous Chloride CS, USP / EP Red Primary Solution
## 1 mL = 59.5 mg $CoCl_2 \cdot 6H_2O$

**Lot Number:** 26081889 **Product Number:** 2210

**Manufacture Date:** AUG 25, 2026
**Expiration Date:** FEB 2028

Cupric Sulfate Colorimetric Solution (CS), 1.00 mL = 62.4 mg $CuSO_4 \cdot 5H_2O$ (RICCA CHEMICAL COMPANY Cat. No. 2495), Ferric Chloride Colorimetric Solution (CS), 1.00 mL = 45.0 mg $FeCl_3 \cdot 6H_2O$ (RICCA CHEMICAL COMPANY Cat. No. 3110), and high purity, ACS Reagent Grade Water (RICCA CHEMICAL COMPANY Cat. No. 9150) are used with this solution to prepare "Matching Fluids" (for use as liquid color standards) by the instructions given in the USP procedure for "Color and Achromicity."

| Name | CAS# | Grade |
|---|---|---|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1 | ACS |
| Hydrochloric Acid | 7647-01-0 | ACS |

| Test | Specification | Result | NIST SRM# |
|---|---|---|---|
| Appearance | Dark red liquid | Passed | |
| Assay (vs. EDTA/Xylenol Orange) | 59.48-59.52 mg/mL | 59.50 mg/mL | 915 |

| Specification | Reference |
|---|---|
| Cobaltous Chloride Solution (0.5 N) | ASTM (D 612) |
| Cobaltous chloride Solution (0.5 N) | ASTM (D 565) |
| Red primary solution | EP (2.2.2) |
| Cobaltous Chloride CS | USP (N/A) |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|---|---|---|
| 2210-4 | 120 mL amber glass | 18 months |

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

William Creese (08/25/2026)
Plant Manager

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