

111.8 mS/cm Conductivity Calibration Solution

SECTION 1 – IDENTIFICATION

- **Product Name:** 111.8 mS/cm Conductivity Calibration Solution
- **Product Code:** AI1134
- **Recommended Use:** Calibration/Checking for conductivity meters and/or sensors
- **Manufacturer:**
 - *Apera Instruments, LLC*
 - 6540 Singletree Dr., Columbus, OH 43229, USA
 - **Phone:** +1-614-285-3080
 - **Email:** info@aperainst.com
 - **Website:** <https://aperainst.com>
- **Emergency Phone:** CHEMTREC: +1-800-424-9300 (24 hours)

SECTION 2: Hazard(s) Identification

- **GHS Classification:** Not classified as hazardous under GHS criteria
- **Signal Word:** *None*
- **Hazard Statements:** Not hazardous under normal use
- **Pictograms:** None required
- **Precautionary Statements:**

- Wash hands thoroughly after handling
- Avoid contact with eyes and prolonged skin exposure
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS Number	% by Weight	TSCA Listed
Potassium Chloride (KCl)	7447-40-7	~7-9%	Yes
Water (Deionized)	7732-18-5	Balance	Yes
Optional: Preservatives/Dye	Proprietary	< 0.05%	Yes

Exact percentages may vary slightly. Composition does not pose health hazards in typical usage.

SECTION 4: First-Aid Measures

- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
- **Skin Contact:** Wash with soap and water.
- **Inhalation:** Not expected to cause inhalation risk. Move to fresh air if needed.
- **Ingestion:** Rinse mouth. Seek medical advice if symptoms occur.

SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or CO₂

- **Special Hazards:** None known
- **Protective Equipment:** Firefighters should wear full protective gear

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Avoid contact with eyes
- **Spill Cleanup:** Absorb with inert material and dispose in accordance with regulations
- **Environmental Precautions:** Avoid discharge into drains or environment

SECTION 7: Handling and Storage

- **Handling:** Avoid eye contact. Use clean equipment to avoid contamination.
- **Storage:** Store tightly closed at room temperature, away from direct sunlight. Do not freeze.

SECTION 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No OSHA PEL or ACGIH TLV applicable for listed ingredients in diluted form
- **Engineering Controls:** Not required under normal use
- **PPE:**
 - Eye Protection: Safety glasses if splashing is possible
 - Skin Protection: Gloves for prolonged contact
 - Respiratory Protection: Not required

SECTION 9: Physical and Chemical Properties

- **Appearance:** Clear, colorless liquid
- **Odor:** Odorless
- **pH:** Neutral (~6.5–7.5)
- **Conductivity:** 111.8 mS $\pm$ 1% @ 25°C
- **Melting/Freezing Point:** ~0°C
- **Boiling Point:** ~100°C
- **Flash Point:** Not applicable
- **Solubility:** Fully soluble in water
- **Specific Gravity:** ~1.06 – 1.09

SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions
- **Reactivity:** Not reactive under normal use
- **Incompatible Materials:** Strong oxidizers
- **Hazardous Decomposition:** None known

SECTION 11: Toxicological Information

- **Likely Routes of Exposure:** Skin, eye contact, ingestion
- **Symptoms:** May cause mild irritation to eyes or skin
- **Acute Toxicity:** Not toxic under normal exposure
- **Carcinogenicity:** Not listed by IARC, NTP, or OSHA

SECTION 12: Ecological Information

- **Ecotoxicity:** Not expected to be harmful at working concentrations
- **Persistence and Degradability:** Readily biodegradable
- **Bioaccumulative Potential:** Low
- **Mobility in Soil:** High

SECTION 13: Disposal Considerations

- **Waste Disposal:** Dispose in accordance with local, state, and federal regulations
- **Container Disposal:** Rinse thoroughly before recycling or disposal

SECTION 14: Transport Information

- **DOT/IATA/IMDG:** Not regulated as hazardous material
- **UN Number:** Not applicable

- **Transport Hazard Class:** None
- **Packing Group:** Not applicable

SECTION 15: Regulatory Information

- **TSCA Status:** All ingredients listed or exempt
- **SARA Title III (Sections 302, 311/312, 313):** Not subject to reporting in dilute form
- **California Proposition 65:** Not listed
- **REACH Compliance (if EU-bound):** Ingredients are exempted or pre-registered

SECTION 16 – OTHER INFORMATION

- **Prepared By:** Apera Instruments Regulatory Affairs
- **Date of Preparation:** August 27, 2025
- **Version:** 2.0
- **Disclaimer:** The information above is believed to be accurate, but is not exhaustive. It is the user's responsibility to ensure safe use under their specific conditions.