

Reference Electrode



KRE05

Hg/Hg₂SO₄ Reference Electrode

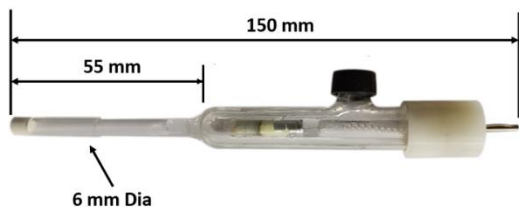
Mercury/Mercurous Sulphate Reference Electrode (Hg/Hg₂SO₄). This reference electrode uses a filling solution of potassium sulphate. The Hg/Hg₂SO₄ reference electrode is recommended when chloride ion cannot be tolerated in the electrolyte.

Technical Specification

Purpose	For acidic medium (aqueous)
E°	+0.674V (at 25°C vs. NHE)
Typical variance	±5mV
Refilling electrolyte	1M K ₂ SO ₄ solution
Inner Diaphragm	Porous frit
Outer Diaphragm	Porous frit
Electrode Pin	Compatible with KLyte Alligator clip
Temperature range (°C)	5-100 (Approx.)
Shaft material	Borosilicate Glass
Shaft diameter (Top)*	12mm
Shaft diameter (Bottom)*	6mm
Length*	150mm
Immersion length*	>12mm; <60mm

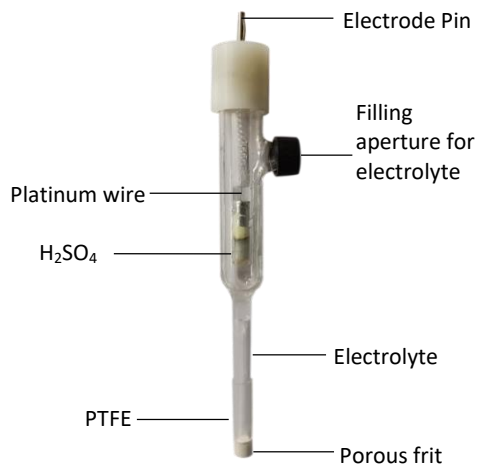
**Please refer to the image of electrode dimensions*

Electrode dimensions



Mercury/Mercurous Sulphate (Hg/Hg₂SO₄ in 0.5M H₂SO₄). This reference electrode is used in some cases where the use of chloride ions is no desirable. The electrode potential of this system is 0.680V vs. SHE. It is used in alkaline solutions only.

Maintenance and Handling



Hg/ Hg₂SO₄ reference electrode

➤ **Electrolyte refilling procedure:** The solution in the glass tube refillable. To do that carefully remove black cap, use a syringe to refill the glass tubing. Tap the tubing for removing the air bubble and the fit the cap again.

➤ You can see solution is pushed through the porous tip.

➤ **Precautions:**

- Handle with care to avoid breakage
- Store upright at room temperature
- Do not attempt to open the electrode
- Keep away from strong impact
- Stable under recommended use.
- Avoid mechanical shock.
- No hazardous reactions under normal conditions.

➤ **Replicable Ceramic Tip:** We will supply ceramic tip along with the electrode.

➤ **Conditioning:** Before you use the reference electrode tap the glass tube and make sure no air bubble is trapped in the lower portion of the tubing. The electrode should be dipped into 0.5M Hg/Hg₂SO₄ solution immediately and left overnight before use.

➤ **Use:** Before you use the reference electrode tap the glass tube and make sure no air bubble is trapped in lower portion of tubing.

➤ **Storing the electrode:** Proper storage of the reference electrodes is required to prevent damage when not in use. The porous frit at the bottom of the electrode should always remain wet since it allows ionic transport. Otherwise, the solution inside the pores will dry out, causing high resistance, an increase in noise, or even the potential out of control.

Optional Parts:



KEC10A
Banana Cable Set



KEC10B
Banana Connector Pin



KA01 (Red), KA02 (Black)
Alligator Clip

Our Valuable Clients



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Product Information Leaflet



Hg/Hg₂SO₄ Reference Electrode
Product ID: KRE05

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