

Miniature reference argentochloride gel electrode

Type: Mini RCE.GEL.L60.C1

Description

Miniature reference argentochloride gel electrode is for potentiometric measurements connection with Miniature ion selective electrodes for potentiometric measurements of Chloride Sodium ions. Calcium and Potassium concentration in aqueous solutions following prior calibration. The conductive connection of the internal electrolyte (KCl enclosed gel) in a plastic tube is mediated by a frit.

Electrodes are applicable to all commonly used measuring apparatus, with input resistance of at least $10^{12} \Omega$.



Physical Parameters

Weight of ISE with cable: approx. 17 gms
Diameter: 6 mm
Standard Length: 60 mm
Standard electrical connecting cable: 1 m

The min. measurable sample volume: 5 ml for standard immersion of ISEs

Conditioning and storage solution: saturated KCl

Temperature range: 0-60 °C pH range: 2-12 pH

Cable output to potentiostat

C1 - 4 mm banana plug (standard)

Device advantages

- Maintenance-free electrode no need to top up the internal electrolyte (KCl gel)
- The frit ensures minimal leakage of the internal electrolyte
- Due to the miniature dimensions of the reference argentochloride gel electrode and ISEs, it is possible to use smaller amounts of solutions and chemicals
- Possibility of integration with a Flow cell for single ISE with integrated stirring
 possible automation and continuous measurement

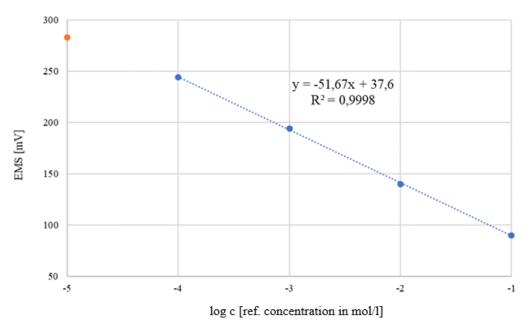


Additional accessory equipment

Mini *-ISE.L60.C*	Miniature ion selective eletrodes
FC.1ISE.1REF	Flow cell for single ion selective electrode with integrated stirring
MPH 472	Universal potentiostat, Monokrystaly
PP10.M*.T*	Peristaltic pump
2PP.T*	Dual Channel Peristaltic Pump

Example of measurement

An example of a calibration graph for Mini Cl-ISE.L60.C1 (linear calibration range: 10^{-1} to 10^{-4} mol/l) in connection with a Mini RCE.GEL.L60.C1.



A *USB milivoltmetr USB-M15* from the Monokrystaly company was used for potentiometric measurement. KCl samples with a concentration of 10^{-1} to 10^{-5} mol/l were diluted with distilled water.

Ordering Information

- The order is specified by whole product code
- Minimum order quantity 1 electrode
- Delivery time for standard electrode is 4-6 weeks from receipt of order
- Delivery time for non-standard electrode depends on final technical specification of order

Example of Order

- 5 pieces - Mini RCE.GEL.L60.C1



References

Development of this product was supported by the Agency for Entrepreneurship and Innovation - OP PIK program of the Ministry of Industry and Trade of the Czech Republic and co-financed by the European Regional Development Fund, project ISE, CZ.01.1.02/0.0/0.0/21_374 /0027289.