

Ag/AgCl reference electrode *No. 04-00013*

Thank you for choosing a Sensolytics miniaturized Ag/AgCl reference electrode.

The purpose of the reference electrode is to complete the measuring circuit and to provide a stable and reproducible potential against which the working electrode is polarized. The contact is made through a liquid junction of porous ceramic frit that allows the reference electrolyte to contact the measuring solution. A salt bridge is formed from the sample through the electrolyte to the silver-silver chloride reference element. A direct contact of a reference element to the solution would also complete the circuit, but we recommend this only for very small currents.

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In order to avoid dehydration of the gel reference electrode during transport, it is delivered with a cap that is filled with electrolyte. Store the reference electrode in a repository containing a solution of 3 M KCl immediately after the first removal of the cap and after each use of the electrode. Prevent the reference electrode from dehydration at any time. A drying out of the gel electrolyte dramatically decreases the lifetime of the reference electrode.