

## Accessories

### For Mini Titrator for Measuring Sulfur Dioxide in Wine, Part: [HA-HI84500](#)

#### ORP Electrode with Clogging Prevention System (CPS™) and BNC Connector

This is a glass body, refillable, open junction ORP electrode with a BNC connector. This electrode features a double junction reference, Clogging Prevention System (CPS™) technology, and platinum sensing ring.

#### 3.5M KCl electrolyte fill solution for double-junction electrodes (4 x 30mL)

This is a pH and ORP electrode fill solution that contains 3.5M KCl, which is specifically produced for double junction electrodes. The electrolyte level in refillable electrodes should be checked before performing any measurements. If the level is low, refill with the proper electrolyte solution to ensure optimum performance. This simple maintenance helps guarantee adequate head pressure to promote the flow of reference electrolyte into the sample being measured.

#### Low Range Titran, 230 ml

This is a 230 mL bottle of low range titrant with an expected range between 1.0 to 40.0 ppm of SO<sub>2</sub> of sulfur dioxide. The titrant solution is pre-standardized, making titrations fast, accurate, and easy to perform.

#### High Range Titran, 230 ml

This is a 230 mL bottle of high range titrant with an expected range between 30 to 400 ppm of SO<sub>2</sub> of sulfur dioxide. The titrant solution is pre-standardized, making titrations fast, accurate, and easy to perform

#### Pump Calibration Standard, 120 ml

This is a 120 mL bottle of pump calibration standard that is used to calibrate the dosing system of the HA-HI84500 Sulfur Dioxide Mini Titrator for Wine Analysis. A calibrated dosing pump allows for the accurate determination of the amount of titrant used when performing a titration. The amount of volume dosed along with the concentration of the titrant is used by the pre-programmed formula within the Mini Titrator in determining the exact concentration of sulfur dioxide. The pump calibration procedure should be performed anytime the titrant or ORP electrode is replaced.

#### Acid Reagent for Free & Total Sulfur Dioxide, 230 ml

This acid reagent is required for both low and high range determinations of sulfur dioxide in wine using the HA-HI84500 Sulfur Dioxide Mini Titrator for Wine Analysis. The acid reagent is used to lower the pH value of the sample prior to performing a titration. With 5 mL of reagent required per test, there is enough acid reagent for approximately 46 tests.

#### Alkaline Reagent for Total Sulfur Dioxide, 120 ml

This alkaline reagent is required for the determination of total sulfur dioxide in wine using the HA-HI84500 Sulfur Dioxide Mini Titrator for Wine Analysis. The alkaline reagent is used to raise the pH value of the sample prior to performing a total sulfur dioxide titration. With 5 mL of reagent required per total SO<sub>2</sub> test, there is enough alkaline reagent for approximate 24 tests.

#### Stabilizer Powder Packets for Sulfur Dioxide Mini Titrator (100 Packets)

These are packets of stabilizer reagent are required for determination of sulfur dioxide in wine using the HA-HI84500 Sulfur Dioxide Mini Titrator for Wine Analysis. The HI84500 mini titrator uses two different titrant solutions that contain different concentrations of potassium iodate to measure a wide range of sulfur dioxide concentration in wine. Both low and high range measurements require the addition of this HA-HI84500-62 stabilizer powder to convert iodate into iodine, which in turn reacts with sulfur dioxide. The HA-HI84500-62 powder is packaged into single use packets that are emptied into the sample prior to performing the titration.



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