

## Accessories

### For Mini Titrator for Measuring Formol Number in Wine & Fruit Juice, Part: HA-HI84533

#### Refillable Combination pH Electrode with BNC Connector

The HA-HI1131B is a glass body, refillable, double junction pH electrode with a BNC connector. This electrode has a single ceramic junction in the outer reference cell and the spherical pH sensing portion is made with high temperature glass. This design consideration is ideal for laboratory samples, beer and other liquid samples, as well as general purpose use.



#### Stainless Steel Temperature Probe

This stainless steel NTC Thermistor temperature probe with a 1 meter cable length allows for temperature compensated measurements with a phono connector input.

**Temperature Range:** - 5.0 to 105.0°C, 23.0 to 221.0°F, 268.2 to 378.2 K

**Temperature Resolution:** 0.1 °C, 0.1 °F, 0.1 K

**Temperature Accuracy:** +/-0.1°C, +/-0.4°F, +/-0.2 K



#### Titrant for Formol Number Mini Titrator

The HA-HI84533-50 is a 230 mL bottle of titrant solution. This titrant solution is used for both the low and high ranges of formol number. The titrant is pre-standardized, eliminating the need for any volumetric glassware or a analytical balance and ensuring titrations are fast, accurate, and simple to perform.



#### Pump Calibration Standard for Formol Number Mini Titrator

The HA-HI84533-55 is a 120 mL bottle of pump calibration solution that is used to calibrate the dosing system of the HA-HI84533 Formol Number Mini Titrator for Wine and Fruit Juice 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 HI84533 in determining the exact amount of total assimilable nitrogen. The pump calibration procedure should be performed anytime the titrant or pH electrode is replaced. Routine calibration is recommended to ensure the highest of accuracy when performing a titration



#### Formol Base Reagent for Formol Number Mini Titrator

The -HI84533-61 is a 230 mL bottle of formol base reagent required for wine and fruit juice samples using the HA-HI84533 Formol Number Mini Titrator. The formol base reagent is used to ensure adequate reaction with amino acids and nitrogen compounds present in wine or fruit juice samples. This reaction frees hydrogen ions in an amount proportional to the available nitrogen, which the titrant neutralizes to provide an accurate determination of total assimilable nitrogen.



1295 Morningside Ave Units 16, 17, & 18  
Toronto ON M1B 4Z4 Canada  
Telephone: 416-261-4865 Fax: 416-261-7879  
[www.sciogene.com](http://www.sciogene.com)

## pH Adjustment Reagent for Formol Number Mini Titrator

The HI84533-62 is a 30 mL bottle of pH adjustment reagent that is used for samples on the HA-HI84533 Formol Number Mini Titrator for Wine and Fruit Juice Analysis. The HA-HI84533 mini titrator is designed to determine both low and high range values of formol number in wine and fruit juice. Determination requires the addition of HA-HI84533-62 pH adjustment reagent to raise the pH value of the sample before addition of formol reagent and subsequent titration



## Hydrogen Peroxide Reagent for Formol Number Mini Titrator

The HA-HI84533-60 is a 30 mL bottle of hydrogen peroxide reagent that is used for samples on the HA-HI84533 Formol Number Mini Titrator for Wine and Fruit Juice Analysis. The HA-HI84533 mini titrator is designed to determine both low and high range values of formol number in wine and fruit juice. Wine or fruit juice samples containing high levels of sulfur dioxide ( $\text{SO}_2$ ) may introduce error in determining formol number. With such samples, it is necessary to add several drops of HA-HI84533-60 hydrogen peroxide reagent to neutralize the  $\text{SO}_2$  prior to titration



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