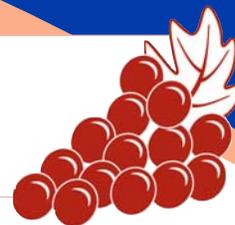




# Mi 456 - Mini-titrator

## for the determination of TITRABLE TOTAL ACIDITY for wine analysis

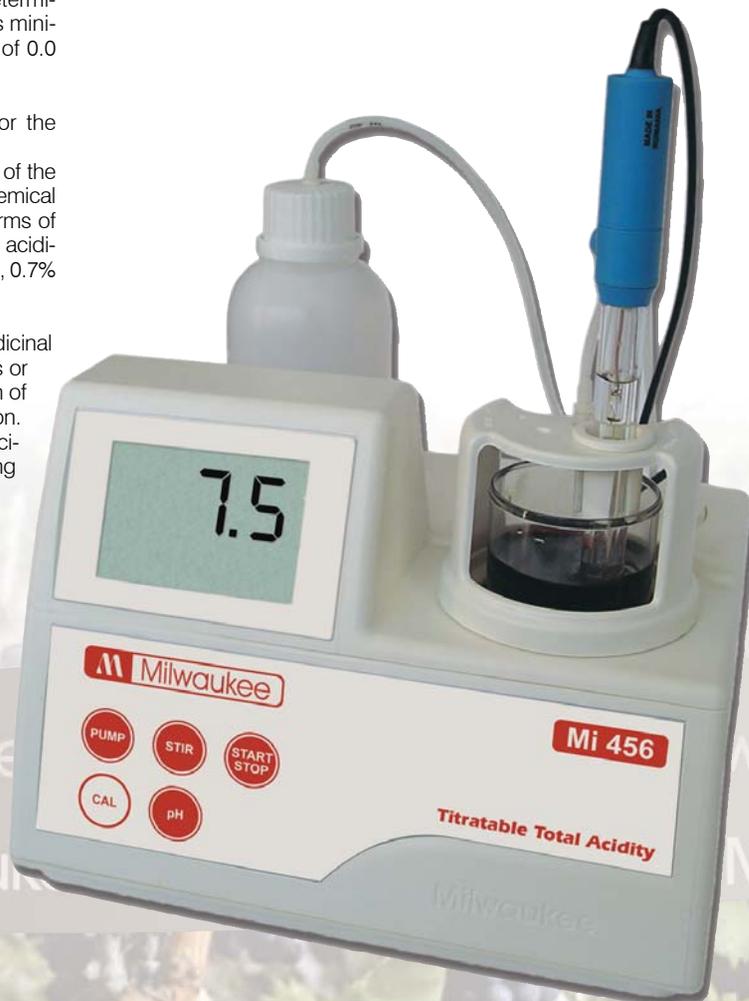


Mi456 is a user-friendly microprocessor-based mini-titrator for the determination of the titratable total acidity in the process of wine making. This mini-titrator gives you direct readings in g/L of tartaric acid, with a range of 0.0 to 25.0 g/L.

The instrument comes with a pre-programmed analysis method for the titratable total acidity measurements on wine sample.

Also called TA and sometimes total acidity, titratable acidity is the sum of the fixed and volatile acids present in a wine. This is determined by a chemical process called titration. The titratable acidity is usually expressed in terms of tartaric acid, even though the other acids are also measured. Titratable acidity is expressed either as a percentage or as grams per liter. For example, 0.7% TA is the same as 7 grams per liter (or 7 g/l) TA.

Acidity in the must will result in a poor fermentation and a slightly medicinal and flat taste. Too much acid will give the wine an unpleasant sourness or tartness. Some acid is necessary for fermentation, and up to one-fourth of the initial acid content will be consumed by the yeast during fermentation. Low-acid musts are usually corrected by adding tartaric acid (the principle acid in grapes), malic acid, citric acid, or acid blend. An acid testing kit is indispensable in measuring initial acidity.



### Glass electrode & Temp Probe

pH electrodes and Temperature Probe are supplied with the Mi456.



### Accessories

- Mi556-001 Calibration standard TA (100 mL bottle)
- Mi556-002 Titrant TA (100 mL bottle)
- Mi556-003 Buffer pH 7.0 (100 mL bottle)
- Mi556-004 Buffer pH 8.2 (100 mL bottle)
- MA919B/1 pH Electrode
- MA831R Temperature probe
- MA9011 Refilling Electrolyte Solution 3.5M KCl, for ORP electrodes, 230 mL bottle
- Mi0009 Small stir bars (5 pcs)
- Mi0020 50 mL beaker (4 pcs)
- Mi0022 2000  $\mu$ L pipette (1 pc)
- Mi0023 Pipette tips for 2000  $\mu$ L pipette (4 pcs)

### Ordering Information

Mi456 is supplied complete with: Calibration standard TA, Titrant TA, Buffer pH 7.0, Buffer pH 8.2, MA919B/1 pH Electrode, MA831R Temperature probe, MA9011 Refilling Electrolyte Solution 3.5M KCl, for pH electrodes 230 mL bottle, small stir bar, 2 x 50 mL beakers, 2000  $\mu$ L pipette, test tube set, O-ring, 1 mL syringe, power cable and instruction manual.

Mi456	Titratable Total Acidity
Range	0.0 to 25.0 g/L of tartaric acid
Resolution	0.1 g/L
Accuracy	5% of reading
Method	acid-base titration method
Principle	end-point titration
pH calibration	1 point in selected end-point: 7.00 pH or 8.20 pH
Sample Volume	2 mL
Temperature Compensation	Automatic from 0.0 to 100.0°C
pH electrode	MA919B/1 (included)
Temperature Probe	MA831R (included)
Pump Volume	0.5 mL/min
Stirring Speed	1500 rpm
Environment	0 to 50°C; max RH 95%
Power Supply	220V/50 Hz; 10VA
Dimensions	208 x 214 x 163 mm
Weight	2.2 Kg

