

### **Application Note**

# Determination of alcohol content in Portuguese white wine by Alcohol meter

Industry : Food and Beverage Instrument : Alcohol meter

Measurement method : Resonant frequency oscillation

### 1. Scope

This is an example about determination of the alcohol content (vol%), specific gravity (t/t) and density (g/cm³) in Portuguese white wine. The alcohol meter can be used enough for determination of these applications on the wine making process.

Technical note: The alcohol sample must be distilled as per the procedure specified on local regulations before the alcohol content can be measured with this alcohol meter.

## 2. Apparatus

- · Alcohol meter ALM-155
- Distillation apparatus

## 3. Sample

·Portuguese white wine

# 4. Reagent

•Pure water for rinsing

#### 5. Procedure

- A: Alcohol content (vol%):
- 1) Take distilled sample solution into beaker
- 2) Introduce the sampling nozzle into the beaker
- 3) Press [Meas.] button on the instrument
- B: Specific gravity (t/t) and Density  $(g/cm^3)$ :
- 1) Take wine sample solution into beaker
- 2) Introduce the sampling nozzle into the beaker
- 3) Press [Meas.] button on the instrument

#### 6. Measurement results

	Procedure A	Procedure B	
	Alcohol (vol%) at 20°C	S.G. (t/t)	Density (g/cm <sup>3</sup> )
1	8.70	0.99884	0.99705
2	8.69	0.99885	0.99706
3	8.70	0.99885	0.99706
Mean	8.70	0.99885	0.99706
SD	0.01	0.00	0.00
RSD(%)	0.07	0.00	0.00

