

# COMPENDIUM OF INTERNATIONAL METHODS OF ANALYSIS FOR SPIRITUOUS BEVERAGES AND ALCOHOLS

## UV absorption of rectified alcohols of vitivinicultural origin (Type IV)

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### **OIV-MA-BS-21 Absorbance test in UV light of neutral alcohol**

#### Type IV method

#### **1. Purpose and scope**

This method can be used to determine the optical permeability of neutral alcohol liable to enter into the composition of certain alcoholic beverages.

#### **2. Principle**

The optical permeability of the sample in the wavelength range from 220 to 270 nm is measured against a defined reference substance with high optical permeability.

#### **3. Apparatus**

1. UV-visible spectrophotometer.
2. Quartz cells 10 mm thick, with identical spectral transmission.

#### **4. Reagents**

Hexane for spectroscopy.

#### **5. Procedure**

- Rinse the tanks clean beforehand with a sample solution and then fill with the sample, dry the tanks outside,
- treat the reference cell (n) with hexane in the same way and fill it,
- determine the absorbance value and build the graph.

#### **6. Expression of results**

The absorbance values recorded at 270, 240, 230 and 220 nm should not exceed the following values: 0.02, 0.08, 0.18 and 0.3. The absorbance curve must be smooth and regular.

#### **7. Bibliography**

- Methods of analysis of neutral alcohol applicable in the wine sector. EEC Regulation No. 1238/92 (May 8, 1992), EEC Regulation No. 2009/92 (July 20, 1992).