

MILWAUKEE Mi450 Photometer for the determination of COLOR & PHENOLS in wine analysis

Mi450 is a user-friendly photometer for monitoring phenols and color in wine analysis.

Determination of total phenols and color in wine is extremely important in order to decide the production process to be used.

Phenols and color develop during the entire course of life of the wine, and are dependent from factors such as pH, sulfur dioxide (SO₂) and Dissolved oxygen (O₂). The most important molecules are tannins and anthocyanins.

Milwaukee's Wine - Photometer are manufactured for easy use, are practical and accurate. Ideal for laboratory use.

The photometer has an advanced optical system based on a special tungsten lamp and a narrow band interference filter that allows most accurate and repeatable readings. The instruments are factory calibrated.



Mi450 Kit

Mi450 is supplied complete with: Total phenols reagents, Wine solvents, pipettes, syringes, cuvettes with cap, stopper small cuvettes, tissue for wiping cuvettes, batteries and instruction manual.



Easy Steps

Prepare the sample to be measured with wine or with reagents to measure Color, Phenols or Tint and zero the instrument. Insert each cuvet in the instrument and see the respective reading.

SPECIFICATIONS	
Range Color Density (I.C.)	White Wine: 0.000 to 1.000 Red Wine: 0.00 to 15.00
Range Tint (O.D.420/O.D.525)	White Wine: 0.00 to 9.99 Red Wine: 0.00 to 9.99
Range Total Phenols (g/l)	White Wine: 0.000 to 0.750 Red Wine: 0.00 to 5.00
Accuracy Color Density (I.C.)	White Wine: typical $\pm 5\%$ Red Wine: typical $\pm 4\%$
Accuracy Tint (O.D.420/O.D.525)	White Wine: typical $\pm 4\%$ Red Wine: typical $\pm 4\%$
Accuracy Total Phenols (g/l)	White Wine: typical $\pm 4\%$ Red Wine: typical $\pm 5\%$
Light Source	tungsten lamp with narrow band interference filter @420 nm, 525 and 610 nm
Sensor	silicon photocell
Method	colorimetric
Environment	0 to 50°C; max RH 95%
Battery Type	4 x 1.5V AA (included)
Auto-off	after 15 minutes of non-use
Dimensions	225 x 85 x 80 mm
Weight	0.5 kg

ACCESSORIES	
Mi550-020	Total phenols reagent set (20 tests)
Mi550S1-040	Wine solvent 1 (4 x 100 mL bottle)
Mi550S3-040	Wine solvent 3 (4 x 100 mL bottle)
Mi0004	Tissue for wiping cuvettes (4 pcs)
Mi0022	2000 μ L pipette (1 pc)
Mi0023	Pipette tips for 2000 μ L pipette (4 pcs)
Mi0026	200 μ L pipette (1 pc)
Mi0027	Pipette tips for 200 μ L pipette (25 pcs)
Mi0011	10 mL glass small cuvettes (2 pcs)
Mi0014	Caps for cuvettes for wine colorimeters (2 pcs)
Mi0013	Stopper 10 mL small cuvettes (2 pcs)
Mi0006	Battery 1.5V AA (4 pcs)
ORDERING INFORMATION	
Mi450 is supplied complete with: Total phenols reagents for 20 tests, Wine solvents (4 x 100 mL bottle), 2000 μ L pipette, 200 μ L pipette, 5 mL syringe, 1 mL short pipette, 3 mL pipette, 2 small cuvettes with cap, stopper 10 mL small cuvettes, tissue for wiping cuvettes, 4 x 1.5V AA batteries and instruction manual.	