

HI 83741 Photometer

FOR THE DETERMINATION OF IRON IN WINE



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Iron contents of wine derive from the grapes, which typically contain low level of iron, from the soil and from the contact of iron containing alloys used during processing, transport and conservation. At low concentrations, iron plays an important role since it favors oxidation, it alters the sensory characteristics of wine and it participates in the formation of complexes with tannins and phosphates which result in instabilities, know as casse. Casse is seen initially as a milky white cloud and later as a precipitate. Iron content of wine can be found from very low amounts up to 20 mg/L.

Another important reason for monitoring the iron content in wine is that iron concentrations between 8 and 10 mg/L can be considered dangerous to humans.

HANNA instruments® HI 83741 measures the iron concentrations of both white and red wines. HI 83741 makes it possible to quickly and easily determine the state of your wine, and to act on it in case it may be necessary.

\$495.00

ESTIMATED RETAIL PRICE



Iron Concentration & Casse

Wine containing less than 8 mg/L of iron: there is no risk of casse

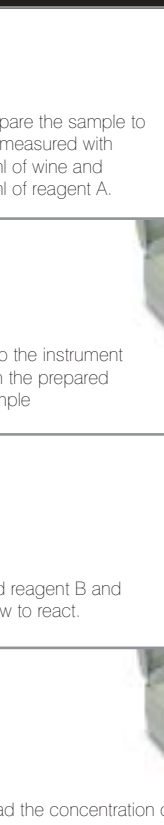



Wine containing more than 8 mg/L of iron: it is necessary to check the stability since there may be the possibility for casse to occur

Wine containing 8 to 15 mg/L of iron: wine is subject to casse and needs treatment with SO₂, citric acid or ascorbic acid

Wine containing over 15 mg/L of iron: wine is highly subject to casse and needs treatment with potassium ferricyanide.

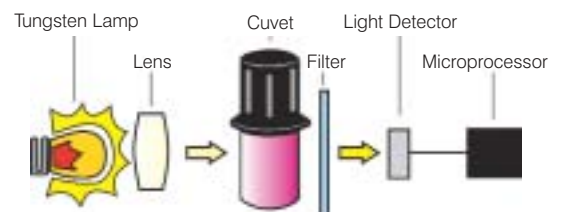
HANNA's HI 83741 is an invaluable instrument to monitoring this crucial parameter in the process of wine making. With a few simple steps wine makers can quickly and accurately measure iron content in wine directly in mg/L.

4 Easy Steps to Measuring Iron in Wine

1	Prepare the sample to be measured with 1 ml of wine and 9 ml of reagent A.	
2	Zero the instrument with the prepared sample.	
3	Add reagent B and allow to react.	
4	Read the concentration of iron expressed in mg/L.	

Optical system of HI 83741

The HI 83741 uses a tungsten light source and a narrow band filter of 560 nm



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Ordering Information

HI 83741 is supplied complete with reagents for 5 tests, 1000 μ l pipette, 1 mL pipette, (2) cuvetts with caps, tissue for wiping cuvetts, scissors, 12 VDC power adapter, (4) 1.5V AA batteries and instruction manual in a hard carrying case.



Specifications	HI 83741 Iron Photometer
Range	0.0 to 15.0 mg/L
Accuracy	Typical \pm 5%
Light Source	Tungsten lamp with narrow band interference filter @ 560 nm
Sensor	Silicon photocell
Method	The reaction of iron with the reagent causes the sample to turn purple
Environment	0 to 50°C; max 95% RH non-condensing
Battery Type	(4) 1.5V AA batteries/12 VDC adapter
Auto Shut-off	After 15 minutes of non-use
Dimensions	225 x 85 x 80 mm
Weight	500 g

Recommended Accessories

- HI 83741-20 Iron reagents (20 tests)
- HI 731318 Cuvet tissue (4 pcs)
- HI 731341 1000 μ L pipette
- HI 731351 1000 μ L pipette tips (25 pcs)
- HI 731321 Glass cuvetts (4 pcs)
- HI 710006 12 VDC power supply

3 year
LIMITED WARRANTY

Authorized Distributor



HANNA[®]
instruments
With Great Products, Come Great Results™