



HI 93751

Sulfate Photometer with 470 nm LED

Sulfate is widely present in natural waters in different concentrations.

Sulfate concentration is to be kept within a strict range for drinking water, especially since the value can be high near mine drainage points

Sulfate is also rigorously tested in the production of beverages such as beer, due to its significant effect upon odor and taste.

Sulfate is added to certain types of boilers to help precipitate calcium and magnesium and to inhibit encrustation.

On the other hand, too much sulfate can be corrosive in high pressure boilers, electric turbines and their heat exchangers.

In fact, in these applications it is important to keep the level below a specific limit.

Similar checks of sulfate presence are carried out in water used for different production cycles, including those of semiconductors.

HI 93751 measures the sulfate ion concentration using a turbidimetric method. The turbidity of the sample, after the addition of reagents, is proportional to the strength of sulfate present.

Specification

Range	0 to 150 mg/L
Resolution	1 mg/L
Accuracy	±1 mg/L ±5% of reading
Light Source	LED 470 nm
Light Life	Life of the instrument
Light Detection	Silicon Photocell
Battery Type / Life	1 x 9V / approx. 40 hours of continuous use; auto-off after 10 minutes of non use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	180 x 83 x 46 mm (7.1 x 3.3 x 1.8")
Weight	290 g (10 oz.)
Method	Adaptation of the turbidimetric method. The reaction between sulfate and the reagent causes turbidity in the sample

Accessories

HI 93703-50 Solution for Cleaning Cuvets

Accessories

HI 731321 Glass Cuvet for HI 937xx & HI 832xx Series Meters

HI 731325 Cuvet Cap Turbidity Meters & HI 937xx Series Meters

HI 710009 Shockproof Boot, Blue

HI 710010 Shockproof Boot, Orange

HI 731318 Tissue for Wiping Cuvets

Reagents & Standards

HI 93751-03 Sulfate, Turbidimetric Method (300 Tests)



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