

HI 93751

Sulfate



Sulfate Meter

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.

Specifications

HI 93751 (Sulfate)	
Range	0 to 150 mg/L
Resolution	1 mg/L
Accuracy (@20°C/68°F)	±1 mg/L ±5% of reading
Light Source	LED (Light Emitting Diode) 470 nm
Light Life	Life of the instrument
Light Detector	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 710009	Shockproof rubber boot, blue	HI 731321	Measuring cuvet (4 pcs)
HI 710010	Shockproof rubber boot, orange	HI 731325	Cuvet cap (4 pcs)
HI 731318	Tissue for wiping cuvetts (4 pcs)	HI 93751-01	Reagent kit for 100 tests (SO ₄ ²⁻)
HI 93703-50	Cuvet cleaning solution (230 mL)	HI 93751-03	Reagent kit for 300 tests (SO ₄ ²⁻)

Ordering Information

HI 93751 is supplied with 2 cuvetts, battery and instructions.

For a comprehensive list of accessories, see sections U and V