

HI 96751

Sulfate Portable Photometer

- CAL CHECK™
- User calibration
- Certified calibration and verification standards
- BEPS (Battery Error Prevention System)
- TIMER function
- Auto shut-off
- GLP Features

Sulfate is widely present within natural waters in different concentrations. Sulfate concentration is to be kept within a strict range for drinking water, especially since this 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.

The HI 96751 measures the sulfate content in water samples in the 0 to 150 mg/L (ppm) range. Sulfate is precipitated with barium chloride crystals.

The instrument uses an exclusive positive-locking system to ensure that the cuvette is in the same place every time it is placed into the measurement cell.

The cuvette has an important role because it is an optical element and thus requires particular attention. It is important that both, the measurement and the calibration (zeroing) cuvettes, are optically identical to provide the same measuring conditions.

ORDERING INFORMATION

HI 96751 is supplied with sample cuvettes with caps (2), 9V battery and instructions.

CAL CHECK™ standards and testing reagents sold separately

HI 96751C includes photometer, sample cuvettes (2) with caps, 9V battery, scissors, cuvette cleaning cloth, instrument quality certificate, instruction manual and rigid carrying case.

CAL CHECK™ standards and testing reagents sold separately

REAGENTS AND STANDARDS

HI 96751-11 CAL CHECK™ standard cuvettes

HI 93751-01 Reagents for 100 tests

HI 93751-03 Reagents for 300 tests



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

SPECIFICATIONS	HI 96751 Sulfate
Range	0 to 150 mg/L (ppm)
Resolution	1 mg/L (ppm)
Accuracy @ 25°C (77°F)	±1 mg/L ±5% of reading
Light Source	light emitting diode
Light Detector	silicon photocell with narrow band interference filter @ 466 nm
Power Supply	9V battery
Auto-off	after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")
Weight	360 g (12.7 oz.)
Method	adaptation of the turbidimetric method

The reagent is in powder form and is supplied in packets. The amount of reagent is precisely dosed to ensure maximum repeatability.

For a complete list of Reagents, see Reagents Section 1B.