



HI96751 Sulfate Portable Photometer

- **CAL Check™**
 - Enables users to check validity of calibration
- **BEPS**
 - Alerts the user of low battery power that could adversely affect reading
- **GLP Features**
 - Meets Good Laboratory Practices

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 HI96751 measures the sulfate content in water samples in the 0 to 150 mg/L (ppm) range. The method to measure sulfate is by measuring precipitate formed when barium chloride is added to the solution.

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 blank (zeroing) cuvettes are optically identical to provide the same measuring conditions.

| Specifications | HI96751 Sulfate |
|-------------------------------|--|
| Range | 0 to 150 mg/L (ppm) |
| Resolution | 1 mg/L |
| 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 | 193 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; sulfate is precipitated with barium chloride crystals and light absorbance of the suspension is measured |
| Ordering Information | <p>HI96751 is supplied with sample cuvettes with caps (2), 9V battery, instrument quality certificate and instructions. CAL Check™ standards and testing reagents sold separately</p> <p>HI96751C includes photometer, CAL Check™ standards, sample cuvettes (2) with caps, 9V battery, scissors, cuvette wiping cloth, instrument quality certificate, instruction manual and rigid carrying case. Reagents sold separately</p> |
| Reagents and Standards | <p>HI96751-11 CAL Check™ standard cuvettes</p> <p>HI93751-01 reagents for 100 tests</p> <p>HI93751-03 reagents for 300 tests</p> |

Standard reagents begin on page 10.70; CAL Check™ standard reagents begin on page 10.71

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instruments