

CHROMATES - COLORIMETRIC MONOTEST

1. PRINCIPLE OF THE METHOD

Measurement of the colour intensity of the red-violet complex formed by reaction of hexavalent chromium with diphenylcarbazides in an acidic environment. The reading is made by spectrophotometer at a wavelength of 545 nm.

2. NUMBER OF ANALYSES PER HYDROCHECK KIT

20

3. MEASURING RANGE

Working on the sample as is, 0.05 to 1.8 ppm CrO_4^{2-} can be determined. This field can be expanded by dilution or concentration of the sample.

4. PROCEDURE

- 4.1 Use the test tube with the white cap to set the photometer to zero (zero test).
- 4.2 In a tube with black cap, add one level No. 1 teaspoon of M/1 reagent.
- 4.3 Add 5 mL of water to be analysed and shake.
- 4.4 Add 2 drops of M/2 reagent and shake again.
- 4.5 After 5 minutes (colour development), take the reading on the photometer.

5. INTERFERENCES

Nitrates > 1 ppm.

Calcium, Iron and Lead > 10 ppm.

Mercury and Molybdenum > 200 ppm.

Other substances normally present in water do not interfere.