

QUANTOFIX[®]Cyanide

Pack content:

1 aluminium container with 100 test strips
1 bottle Cyanide-1 1 measuring vessel with 5 mL mark
1 bottle Cyanide-2 1 small measuring spoon

Measuring range:

1–30 mg/L CN⁻

Color gradation:

0 · 1 · 3 · 10 · 30 mg/L CN⁻

Safety precautions:

Cyanide-2 contains chloramine T 1–5% and pyridine 5–44% CAS 127-65-1, 110-86-1. DANGER May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing dust. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

General indications:

Remove only as many test strips as are required. Close the container immediately after removing a strip. Do not touch the test field.

Additional indications:

To obtain correct results with this test, the pH value of the sample must be < 10. Therefore, the pH value of the sample must be first measured (for example with pH-Fix 0–14, REF 921 10). If the solution has a pH value > 10, add some drops of diluted sulfuric acid to lower it to 6–7.

Instructions for use:

1. Rinse the measuring vessel with the test solution and fill it to the 5 mL mark.
2. Add 1 spoon Cyanide-1 (buffer solution) to the sample.
3. Add 5 drops Cyanide-2 to the sample.
4. Shake carefully.
5. **Immediately** dip the test strip into the sample.
6. Wait 45 seconds.
7. Shake off excess liquid.
8. Compare **within 10 seconds** with the color scale.

Interferences:

This test detects free cyanide and cyanide complexes which are decomposed by chlorine. Thiocyanates (SCN⁻) above 1 mg/L lead to a similar coloration. Iodide and bromide in concentrations of 5 mg/L and above lead to a fading of the color reaction, and in major concentrations may inhibit the color reaction. Sulfide ions (S²⁻) up to 20 mg/L do not interfere. Higher concentrations also decrease or inhibit the color reaction. If the pH value of the sample is > 10, then the capacity of the buffer solution will not be sufficient to lower the pH to the optimal value of 6–7. In this case, prior to the test, the pH value of the sample should be adjusted to 6–7 by drop wise addition of diluted sulfuric acid.

Disposal:

Dispose of used strips at an authorised hazardous waste collection point.

Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature not above +30 °C).

If correctly stored, the test kit may be used until the use-by-date printed on the packaging.

Product data and ordering information

Type	Semi-quantitative test strips
Presentation	Tube of 100 test strips with reagents
Color reaction	white to violet
Gradation	0 · 1 · 3 · 10 · 30 mg/l (ppm) CN ⁻
REF	91318

