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Cyantesmo

Test paper for the detection of hydrocyanic acid and cyanides

Cyantesmo is used for the detection of hydrocyanic acid and cyanides in aqueous solutions resp. watery extracts (e.g. cyanide in waste water, amygdalin in almonds). Hydrocyanic acid in corn and flour treated with it and hydrocyanic acid in air.

Safety precautions:
Cyantesmo contains N,N,N',N'-Tetramethyl-4,4'-diaminodiphenylmethan 0.6 % CAS 101-61-1. DANGER May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up.

Color reaction:
The pale green test paper turns blue. Cyantesmo reacts very intensive in the gas zone above the level of the test solution.

Sensitivity limit:
0.2 mg/L HCN after 15 min reaction time.

Instructions for use:
1. Fill test solution into a narrow test tube!
2. Mix appr. 10 mL of the solution with 1 drop of concentrated sulphuric acid.
3. Shake the acidified solution immediately.
4. After shaking tear off the Cyantesmo test strip and dip it appr. 10 mm into the solution. Take care that a part of strip remains in the gas zone above the liquid level.
5. According to the concentration of hydrocyanic acid color changes from pale blue to dark blue. The most reactive zone – specially at low concentrations – is above the liquid level. At lowest concentrated hydrocyanic acid color changes not before 15 minutes. Concentrations lower than 0.2 mg/L HCN need a longer reaction time, e.g. during a night.
6. **Approaching the limit of sensibility a control test is recommended!**

Interferences:
Cyantesmo reacts very sensitive to cyanide solutions **weakly acidified** with sulphuric acid and does **not** react with **alkaline** solutions. Strongly acidic solutions destroy the Cyantesmo reagent.
To circumvent interferences by volatile oxidizing or reducing agents hydrocyanic acid can set free by sodium hydrogencarbonate.

Disposal:
Dispose of test strips and container to regulated waste treatment.

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