

POTASSIUM IODIDE

STARCH paper

for determination of nitrite and free chlorine

Color reaction:

The test paper shows blue-violet spots or rings on a white background.

Method of Application:

a) Detection of nitrite

One drop of the acidic sample solution ($\text{pH} < 2$) is applied to the test paper. At the place of application a blue-violet spot (for high nitrite concentrations) or a blue-violet ring (for low nitrite concentrations) is formed, which however disappears within a few seconds. Thus immediate evaluation is necessary.

Limit of sensitivity: 1 mg/L nitrite (NO_2^-).

b) Detection of free chlorine

One drop of the neutral sample solution ($\text{pH} 6-7$) is applied to the test paper. At the place of application a blue-violet spot (for high chlorine concentrations) or a blue-violet ring (for low chlorine concentrations) is formed, which however disappears within a few seconds. Thus in this case too, immediate evaluation is necessary.

Limit of sensitivity: 1 mg/L free chlorine (Cl_2).

Interferences:

All oxidizing reagents, which can liberate iodine from potassium iodide (KI), also show a positive reaction.