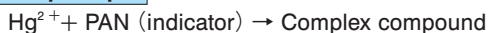


## Performance

Measuring range	1 to 20 mg/L
Sampling time	5 min
Detecting limit :	0.5 mg/L
Colour change :	Pale orange → Bluish purple
Operating conditions :	Water temperature 0 to 35 °C (32 to 95 °F) correction not used
pH value :	pH 4.5 to pH 8.0
Relative standard deviation :	15 % (for 1 to 5 mg/L), 10 % (for 5 to 20 mg/L)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	36 months

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Iron (II) $\text{Fe}^{2+}$	$\geq 0.5$ mg/L	–	Reddish purple ( $\geq 0.5$ mg/L)
Iron (III) $\text{Fe}^{3+}$	$\geq 1$ mg/L	–	No ( $\leq 100$ mg/L)
Copper (II) $\text{Cu}^{2+}$	$\geq 0.5$ mg/L	+	Reddish purple ( $\geq 0.5$ mg/L)
Zinc $\text{Zn}^{2+}$	$\geq 0.5$ mg/L	+	Purple ( $\geq 0.2$ mg/L)
Manganese $\text{Mn}^{2+}$	$\geq 1$ mg/L	+	Bluish purple ( $\geq 1$ mg/L)
Aluminum $\text{Al}^{3+}$	$\geq 0.5$ mg/L	+	No ( $\leq 100$ mg/L)
Nickel $\text{Ni}^{2+}$	$\geq 0.3$ mg/L	+	Purple ( $\geq 0.3$ mg/L)
Cobalt $\text{Co}^{2+}$	$\geq 0.2$ mg/L	+	Purple ( $\geq 0.2$ mg/L)

## Calibration method

Mercury standard solution