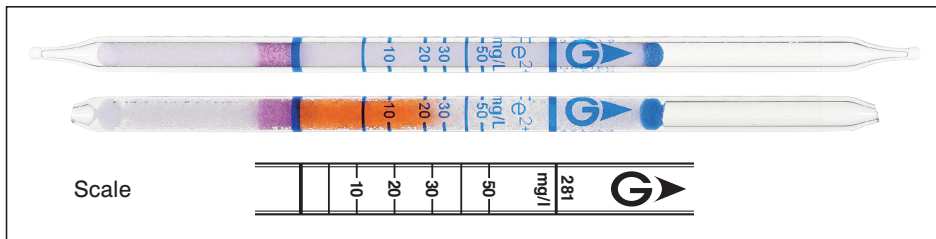


Iron (II) Fe^{2+}

No.281



Performance The minimum scale value (5mg/L) is not printed on the tube, but only the scale line is printed.

Measuring range	(5) to 50 mg/L
Sampling time	5 min
Detecting limit :	1.0 mg/L
Colour change :	White → Orange
Operating conditions :	Water temperature 0 to 40 °C (32 to 104 °F) correction not used
pH value :	pH 3.0 to pH 5.5
Relative standard deviation :	15 % (for 5 to 20 mg/L), 10 % (for 20 to 50 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
Zinc Zn^{2+}	≥ 5 mg/L	+	No (≤ 100 mg/L)
Cobalt Co^{2+}	≥ 5 mg/L	+	Orange (≥ 1 mg/L)
Cyanide ion CN^-	≥ 20 mg/L	-	No (≤ 100 mg/L)
Iron (III) Fe^{3+}	≥ 50 mg/L	+	Pale orange (≥ 50 mg/L)
Copper (I) Cu^+	≥ 5 mg/L	-	Pale orange (≥ 1 mg/L)
Copper (II) Cu^{2+}	≥ 10 mg/L	+	Pale blue (≥ 50 mg/L)
Nickel Ni^{2+}	≥ 5 mg/L	+	No (≤ 100 mg/L)
Manganese Mn^{2+}	≥ 50 mg/L	-	No (≤ 100 mg/L)
Phosphate ion PO_4^{3-}	≥ 100 mg/L	No	No (≤ 100 mg/L)

Calibration method

Iron standard solution