



### Performance

|                                     |  |
|-------------------------------------|--|
| Measuring range :                   | 1 – 20 mg/l                                    |
| Sampling time :                     | 5 minutes                                      |
| Detecting limit :                   | 0.5 mg/l                                       |
| Colour change :                     | Pale orange → Bluish purple                    |
| Corrections for water temperature : | Unnecessary (0 – 35°C)                         |
| pH value :                          | pH 4.5 – pH 8.0                                |
| Relative standard deviation :       | 15 % (for 1 to 5 mg/l) 10 % (for 5 to 20 mg/l) |
| Shelf life :                        | 3 years  |

### Reaction principle

Hg + PAN (indicator) → Complex compound

### Possible coexisting substances and their interferences (NOTE : Page 2-5)

| Substance        | Concentration | Interference | Changes colour by itself to |
|------------------|---------------|--------------|-----------------------------|
| Fe <sup>2+</sup> | ≥ 0.5 mg/l    | –            | Reddish purple (≥ 0.5 mg/l) |
| Fe <sup>3+</sup> | ≥ 1 mg/l      | –            | No (≤ 100 mg/l)             |
| Cu               | ≥ 0.5 mg/l    | +            | Reddish purple (≥ 0.5 mg/l) |
| Zn               | ≥ 0.5 mg/l    | +            | Purple (≥ 0.2 mg/l)         |
| Mn               | ≥ 1 mg/l      | +            | Bluish purple (≥ 1 mg/l)    |
| Al               | ≥ 0.5 mg/l    | +            | No (≤ 100 mg/l)             |
| Ni               | ≥ 0.3 mg/l    | +            | Purple (≥ 0.3 mg/l)         |
| Co               | ≥ 0.2 mg/l    | +            | Purple (≥ 0.2 mg/l)         |

### Calibration method

Mercury standard solution