



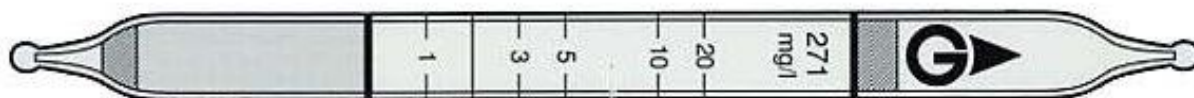
The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Mercury

Hg

NO.GAS271



Performance

| | |
|--|---|
| Measuring Range | 1 to 20 mg/l |
| Sampling Time | 5 minutes |
| Detecting Limit | 0.5 mg/l |
| Colour Change | Pale orange → Bluish purple |
| Reaction Principle | Hg + PAN (Indicator) → Complex compound |
| Coefficient of Variation | 15% (for 1 to 5 mg/l), 10% (for 5 to 20 mg/l) |
| Shelf Life | Up to 3 Years |
| Corrections for temperature & humidity | Unnecessary |
| Store the tubes at cool and dark place. | |

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Change colour by itself |
|------------------|---------------|--------------|--|
| Fe ²⁺ | ≥0.5 mg/l | Minus error | Reddish purple discoloration (≥0.5 mg/l) |
| Fe ³⁺ | ≥1 mg/l | Minus error | No discoloration (≤100 mg/l) |
| Cu | ≥0.5 mg/l | Plus error | Reddish purple discoloration (≥0.5 mg/l) |
| Zn | ≥0.5 mg/l | Plus error | Purple (≥0.2 mg/l) |
| Mn | ≥1 mg/l | Plus error | Bluish purple discoloration (≥1 mg/l) |
| Al | ≥0.5 mg/l | Plus error | No discoloration (≤100 mg/l) |
| Ni | ≥0.3 mg/l | Plus error | Pale yellow discoloration (≥0.3 mg/l) |
| Co | ≥0.2 mg/l | Plus error | Blackish grey discoloration (≥0.2 mg/l) |

Calibration gas generation Mercury standard solution

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