



Performance

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|---|--|
| Measuring Range | 10 to 300 ppm |
| Number of Pump Strokes | 2 |
| Correction Factor | 1 |
| Sampling Time | 4 minutes per pump stroke |
| Detecting Limit | 2 ppm (n=2) |
| Colour Change | Yellow → Blackish brown → Light blue after few minutes |
| Reaction Principle | $\text{CH}_3\text{CO}_2(\text{CH}_2)_3\text{CH}_3 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$ |
| Coefficient of Variation | 15% (for 10 to 100 ppm), 10% (for 100 to 300 ppm) |
| Shelf Life | 2 Years |
| Corrections for temperature & humidity | Temperature correction is necessary |

Store the tubes at cool and dark place.

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Change colour by itself |
|-----------------------|---------------|--------------|---|
| Alcohols | - | Plus error | Dark brown (few minutes later) → Pale blue |
| Ketones | - | Plus error | |
| Esters | - | Plus error | |
| Aromatic Hydrocarbons | - | Plus error | |

Other substance measurable with this detector tube

| Substance | Correction | No. of Pump Strokes | Measuring Range |
|------------------|--------------|---------------------|-----------------|
| Isobuty Acrylate | Factor: 0.26 | 2 | 2.6 to 78 ppm |
| Butyl Acrylate | Factor 0.7 | 2 | 7 to 210 ppm |

Calibration gas generation Diffusion tube method

| TLV-TWA | TLV-STEL | Explosive range |
|---------|----------|-----------------|
| 150ppm | 200ppm | 1.7 to 7.6% |