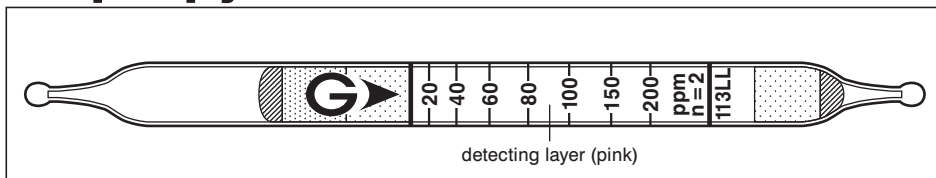


Isopropyl Alcohol $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$ or $i\text{-C}_3\text{H}_7\text{OH}$ No.113LL



Performance

| | | |
|------------------------|---------------|----------------|
| Measuring range | 20 to 200 ppm | 200 to 460 ppm |
| Number of pump strokes | 2 (200 ml) | 1 (100 ml) |
| Correction factor | 1 | 2.3 |
| Sampling time | 4 min | 2 min |

Detecting limit : 7 ppm (2 pump strokes)

Colour change : Pink → Pale blue

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 20 to 60 ppm), 5 % (for 60 to 200 ppm)

Shelf life : 2 years

Reaction principle



Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Changes colour by itself to |
|------------------------|---------------|--------------|-----------------------------|
| Alcohols | | + | Pale blue |
| Esters, Ketones | | No | No |
| Aliphatic hydrocarbons | | No | No |
| Aromatic hydrocarbons | | No | No |

Other substances measurable with this detector tube

| Substance | Correction | No. of pump strokes | Measuring range |
|----------------------|--------------|---------------------|-----------------|
| Propyl alcohol | by scale | 2 | 55 to 170 ppm |
| Ethylene glycol MBE | by scale | 2 | 60 to 400 ppm |
| Ethylene glycol MEE | Factor : 2.3 | 2 | 46 to 460 ppm |
| Ethylene glycol MME | Factor : 2.2 | 2 | 44 to 440 ppm |
| 1-Methoxy-2-propanol | Factor : 1.3 | 2 | 26 to 260 ppm |

MEE : monoethyl ether, MBE : monobutyl ether, MME : monomethyl ether

Calibration gas generation

Diffusion tube method