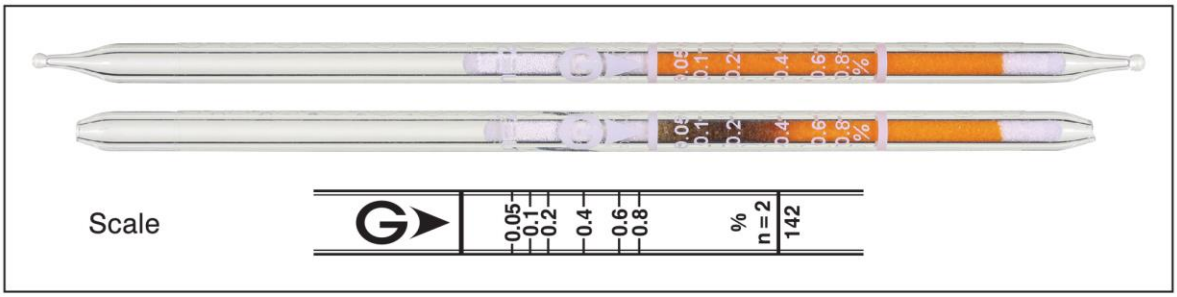
wiserise marine

# Butyl Acetate

**Part No.:142**

# Butyl Acetate $CH_3CO_2(CH_2)_3CH_3$ or $CH_3CO_2C_4H_9$ No.142




## Performance

| | |
|---|---|
| Measuring range | 0.05 to 0.8 % |
| Number of pump strokes | 2 (200 mL) |
| Correction factor | 1 |
| Sampling time | 1.5 min |

Detecting limit : 0.015 % (2 pump strokes)
Colour change : Orange → Greenish brown
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 15 % (for 0.01 to 0.2 %), 10 % (for 0.2 to 0.8 %)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 36 months

## Reaction principle

$CH_3CO_2(CH_2)_3CH_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

## Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Changes colour by itself to |
|---|---|---|---|
| Propane | ≧ 0.2 % | Cannot use | Pale brown (whole layer) (≧ 0.2 %) |
| Alcohols, Esters, Ketones | | + | Greenish brown |
| Toluene | ≧ 25 ppm | Two layers (Greemish brown & Pale brown) | Pale brown (≧ 15 ppm) |
| Hydrogen sulphide | ≧ 100 ppm | | Greenish brown (≧ 25 ppm) |
| Sulphur dioxide | ≧ 100 ppm | | Brown (≧ 50 ppm) |

## Calibration gas generation

Static gas dilution method



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