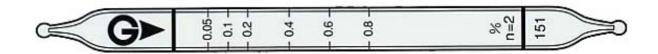
Acetone CH3COCH3 No.151



Performance

Measuring Range	0.05 to 0.8%	0.8 to 2.0%	
Number of Pump Strokes	2	1	
Correction Factor	1	2.5	
Sampling Time	2 minutes per pump stroke		
Detecting Limit	0.003% (n=2)		
Colour Change	Orange ─► Dark green		
Reaction Principle	$CH_3COCH_3 + Cr^{6+} + H_2SO_4 + H_2O \longrightarrow Cr^{3+}$		
Coefficient of Variation	10% (for 0.05 to 0.2 %), 5% (for 0.2 to 0.8 %)		
Shelf Life	3 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
Sulphur dioxide	<u>≥</u> 500 ppm	Plus error	Produce green stain
Hydrogen sulphide	<u>≥</u> 500 ppm	Plus error	Produces dark green stain
Alcohols, Esters, Ketones	-	Plus error	Produce dark green stain
Propane	<u>≥</u> 0.2%	Yes	Produce dark green for whole layer
Aromatic Hydrocarbons	<u>≥</u> 500 ppm	Plus error	Produce dark green

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Cyclohexene	1.0	1	0.05 to 0.8%

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
500ppm	750ppm	2.1 to 13%