

**Performance**

Measuring Range	0.05 to 0.1 ppm	0.1 to 5 ppm	5 to 20 ppm
Number of Pump Strokes	10	5	1
Correction Factor	1/2	1	4
Sampling Time	1 minute per pump stroke		
Detecting Limit	0.01 ppm (n=10)		
Colour Change	White → Yellow		
Reaction Principle	$\text{COCl}_2 + (\text{CH}_3)_2\text{NC}_6\text{H}_4\text{CHO} \rightarrow (\text{CH}_3)_2\text{NC}_6\text{H}_4\text{CHCl}_2 + \text{CO}_2$ $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{CHCl}_2 + (\text{C}_6\text{H}_5)_2\text{NH} \rightarrow \text{Reaction Product}$		
Coefficient of Variation	10% (for 0.1 to 1 ppm), 5% (for 1 to 5 ppm)		
Shelf Life	1.5 Years		
Corrections for temperature & humidity	Temperature correction is necessary		
Store the tubes in the refrigerator to keep at 10°C (50°F) or below.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Hydrogen chloride	≥1/10 time	Plus error	Produces yellow discoloration
Chlorine	≥1/2 time	Plus error	Produces yellow discoloration
Nitrogen dioxide	≥1/5 time	Plus error	Produces yellow discoloration

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
0.1ppm	-	-