

Methacrylonitrile**NO.192****Performance**

Measuring Range	0.2 to 0.5 ppm	0.5 to 10 ppm	10 to 32 ppm
Number of Pump Strokes	4	2	1
Correction Factor	0.4	1	3.2
Sampling Time	2 minutes per pump stroke		
Detecting Limit	0.1 ppm (n=4)		
Color Change	Yellow → Red		
Reaction Principle	Acrylonitrile is decomposed by acid to liberate hydrogen cyanide which react with mercuric chloride to generate hydrogen chloride. The generated hydrogen chloride discolors indicator to red.		
Coefficient of Variation	10% (for 0.5 to 4 ppm), 5% (for 4 to 10 ppm)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Unnecessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Nitriles ($\geq \text{C}_3$)	-	Plus error	Discolors red stain
Acetone cyanohidrin	-	Plus error	Discolors red stain
Alcohols, Esters, Ketones	20 ppm	Minus error	No discoloration
Aromatic hydrocarbons	20 ppm	Minus error	No discoloration
Hydrogen chloride, Hydrogen cyanide	-	No effect	No discoloration

Calibration gas generation Diffusion tube method

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TLV-TWA	TLV-STEL	Explosive range
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