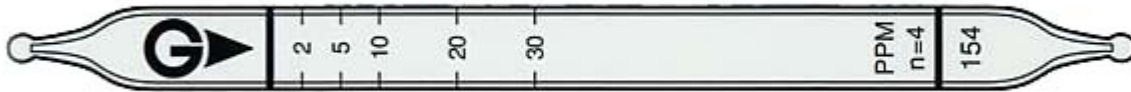


# Cyclohexanone

C<sub>6</sub>H<sub>10</sub>O  
Humidity Correction

NO. 154



## Performance

<b>Measuring Range</b>	2 to 30 ppm	30 to 75 ppm
<b>Number of Pump Strokes</b>	4	2
<b>Correction Factor</b>	1	2.5
<b>Sampling Time</b>	2 minutes per pump stroke	
<b>Detecting Limit</b>	0.2 ppm (n=4)	
<b>Color Change</b>	Pale Yellow → Yellow	
<b>Reaction Principle</b>	Cyclohexanone reacts with 2,4-dinitrophenylhydrazine to form dinitrophenylhydrazone to produce yellow in color.	
<b>Coefficient of Variation</b>	10% (for 2 to 10 ppm), 5% (for 10 to 30 ppm)	
<b>Shelf Life</b>	2 Years	
<b>Corrections for temperature &amp; humidity</b>	Temperature correction is necessary	
<b>Store the tubes in the refrigerator to keep at 10°C (50°F) or below.</b>		

## Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Ketones	-	Plus error	Produce yellow stain

## Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Furfural	1.0	4	2 to 30 ppm
Diacetone alcohol	by scale	2	2.5 to 100 ppm
Isophorone	1.0	8	2 to 30 ppm

## Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
25ppm	-	1.1 to 9.4%

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Policy Statement and Legal Notices

Nextteq is Gastec's Exclusive U.S. Master Wholesale Distributor. Gastec tubes and pumps are manufactured by the Gastec Corporation.