

N,N-Dimethyl acetamide

CH<sub>3</sub>CON(CH<sub>3</sub>)<sub>2</sub>

NO. 184

**Performance**

<b>Measuring Range</b>	1.5 to 5 ppm	5 to 60 ppm	60 to 240 ppm
<b>Number of Pump Strokes</b>	4	2	1
<b>Correction Factor</b>	0.3	1	4
<b>Sampling Time</b>	2 minutes per pump stroke		
<b>Detecting Limit</b>	0.5 ppm (n=4)		
<b>Color Change</b>	Pink → Pale yellow		
<b>Reaction Principle</b>	$\text{CH}_3\text{CON}(\text{CH}_3)_2 + \text{NaOH} \longrightarrow \text{R-NH}_2$ $2\text{R-NH}_2 + \text{H}_2\text{SO}_4 \longrightarrow (\text{R-NH}_2)_2\text{SO}_4$		
<b>Coefficient of Variation</b>	15% (for 2 to 10 ppm), 10% (for 10 to 30 ppm)		
<b>Shelf Life</b>	3 Years		
<b>Corrections for temperature &amp; humidity</b>	Temperature correction is necessary		
<b>Store the tubes at cool and dark place.</b>			

**Possible coexisting substances and their interferences (NOTE)**

Substance	Concentration	Interference	Change color by itself
Amines	-	Plus error	Pale yellow
Ammonia	-	Plus error	Pale yellow
Hydrazine	-	Plus error	Pale yellow

**Calibration gas generation** Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
10ppm	-	-

## Policy Statement and Legal Notices

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