

# Ethanol C<sub>2</sub>H<sub>5</sub>OH

No. H-10-141-30

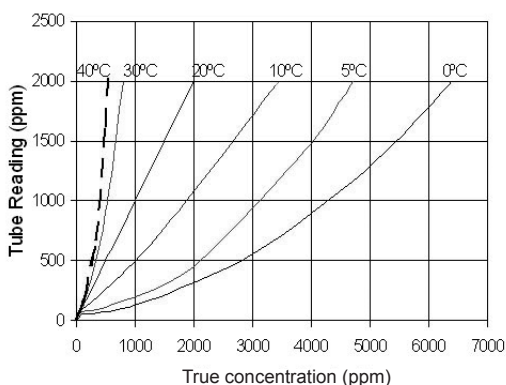


	Extended Range	Standard Range	Extended Range
Range (ppmv)	50-200#	100 - 2000	Do not extend
No. of Pump Strokes	2	1	
Sample Volume (mL)	200	100	
Sample Time (min)	2 x 3	3	
Correction Factor	0.5#	1	

# This CF only applies between 50-200 ppm; for higher concentrations use one stroke.

Precision (Relative Standard Deviation)\*: ≤±20%

Linearity with No. of Pump Strokes: r<sup>2</sup> = 0.87



Humidity: No effect 0-95% RH

Temperature Range: 0 - 40°C (32 - 104°F)

Storage Life: 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: Orange Yellow → Pale Green

Reaction Principle: C<sub>2</sub>H<sub>5</sub>OH + Cr(VI) + H<sub>2</sub>SO<sub>4</sub> → Cr(III) + Oxidation Products

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# Ethanol C<sub>2</sub>H<sub>5</sub>OH (continued) No. H-10-141-30

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*	Correction Factor
Methanol	1000	1000	1.0
Isopropanol	1000	750	1.3
tert-Butanol	1000	1300	0.77
Methyl mercaptan	500	300	1.7
H <sub>2</sub> S	100	0	-
CH <sub>4</sub>	25000	0	-
CO <sub>2</sub>	5000	0	-
CO	1000	0	-
NH <sub>3</sub>	400	0	-
NO	100	130	0.77
Benzene	100	0	-
n-Hexane	100	0	-
Ethyl acetate	1000	0**	-

\* Data based on Honeywell pumps and tubes used in standard range.

\*\* Faint brown color over entire tube, but no effect on ethanol reading.

Other Possible Interferences: Other alcohols and mercaptans.

DATA SHEETS