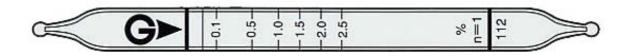
Ethanol C₂H₅OH No.112



Performance

Number of Pump Strokes 2 1 1/2 Correction Factor 0.2 1 3 Sampling Time 1.5 minutes per pump stroke Detecting Limit 0.004% (n=2) Colour Change Pink → Pale blue Reaction Principle Ethyl alcohol reduces cromic acid to discolour pale blue stain. C₂H₅OH + Cr⁵+ + H₂SO₄ → Cr³+ Coefficient of Variation 15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %) Shelf Life 3 Years Corrections for Temperature correction is necessary	i citorinanoc			
Correction Factor 0.2 1 3 Sampling Time 1.5 minutes per pump strokeDetecting Limit 0.004% (n=2)Colour ChangePale blueReaction PrincipleEthyl alcohol reduces cromic acid to discolour pale blue stain. $C_2H_5OH + Cr^{6+} + H_2SO_4 \longrightarrow Cr^{3+}$ Coefficient of Variation 15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %)Shelf Life 3 YearsCorrections for temperature & humidityTemperature correction is necessary	Measuring Range	0.01 to 0.05%	0.05 to 2.5%	2.5 to 7.5%
Sampling Time 1.5 minutes per pump stroke 0.004% (n=2) Colour Change Pink → Pale blue Reaction Principle Ethyl alcohol reduces cromic acid to discolour pale blue stain. C₂H₅OH + Cr⁶+ + H₂SO₄ → Cr³+ Coefficient of Variation 15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %) Shelf Life 3 Years Corrections for temperature & humidity Temperature correction is necessary	Number of Pump Strokes	2	1	1/2
Detecting Limit 0.004% (n=2) Colour Change Pink → Pale blue Reaction Principle Ethyl alcohol reduces cromic acid to discolour pale blue stain. C₂H₅OH + Cr⁶+ + H₂SO₄ → Cr³+ Coefficient of Variation 15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %) Shelf Life 3 Years Corrections for temperature & humidity Temperature correction is necessary	Correction Factor	0.2	1	3
Colour Change Pink \longrightarrow Pale blue Reaction Principle Ethyl alcohol reduces cromic acid to discolour pale blue stain. $C_2H_5OH + Cr^{6+} + H_2SO_4 \longrightarrow Cr^{3+}$ Coefficient of Variation 15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %) Shelf Life 3 Years Corrections for temperature & humidity Temperature correction is necessary	Sampling Time	1.5 minutes per pump stroke		
Reaction PrincipleEthyl alcohol reduces cromic acid to discolour pale blue stain. $C_2H_5OH + Cr^{6+} + H_2SO_4 \longrightarrow Cr^{3+}$ Coefficient of Variation15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %)Shelf Life3 YearsCorrections for temperature & humidityTemperature correction is necessary	Detecting Limit	0.004% (n=2)		
Coefficient of Variation 15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %) Shelf Life 3 Years Corrections for temperature & humidity Temperature correction is necessary	Colour Change	Pink → Pale blue		
Shelf Life 3 Years Corrections for temperature & humidity Temperature correction is necessary	Reaction Principle	Ethyl alcohol reduces cromic acid to discolour pale blue stain. $C_2H_5OH + Cr^{6+} + H_2SO_4 \longrightarrow Cr^{3+}$		
Corrections for temperature & humidity Temperature correction is necessary	Coefficient of Variation	15% (for 0.05 to 0.5 %), 10% (for 0.5 to 2.5 %)		
temperature & humidity	Shelf Life	3 Years		
Store the tubes at cool and dark place.	Corrections for temperature & humidity	Temperature correction is necessary		
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Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Carbon monoxide	-	No effect	No discoloration
Carbon dioxide	-	No effect	No discoloration
Alcohols	-	Plus error	Produces pale blue stain

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
1000ppm	1000ppm	3.3 to 19%