

VA Application Note No. V- 67

Title: Formaldehyde, acetaldehyde and acetone in methanol

Summary: Formaldehyde, acetaldehyde and acetone are determined in methanol as hydrazone after reaction with hydrazine sulphate

Sample: Methanol puriss p.a.

Sample none

Preparation:

Formaldehyde, acetaldehyde and acetone:

Electrolyte: Na₂HPO₄ / citric acid buffer, pH = 6.5, hydrazine sulphate

AE: Pt

RE: Ag/AgCl/KCl 3M

Parameters: DPPOL (-20 mV), SMDE

U_{start} = -850 mV, U_{end} = -1160 mV (Formaldehyde)

U_{start} = -1070 mV, U_{end} = -1320 mV (Acetaldehyde)

U_{start} = -1250 mV, U_{end} = -1600 mV (Acetone)

E_p (Formaldehyde) = -1050 mV

E_p (Acetaldehyde) = -1200 mV

E_p (Acetone) = -1350 mV

Results:	Formaldehyde µg/g	Acetaldehyde µg/g	Acetone µg/g
	/	8.8	46

Determination of formaldehyde, acetaldehyde and acetone

