

KF Application Note No. K- 2

Title: Water in methyl ethyl ketone peroxide
(butanone peroxide)

Summary: The water content of methyl ethyl ketone peroxide is determined according to Karl Fischer using two-component reagents in order to prevent unwanted side reactions. (Separate solvent is used to ensure a high excess of sulphur dioxide and amine in the titration vessel.)

Sample: Methyl ethyl ketone peroxide (butanone peroxide)

Sample Preparation: none

Instruments and Accessories: 701 KF Titrino or 720 KFS Titrino, 703 Titration Stand, printer

Analysis: Add ca. 0.2 ... 0.5 g sample to 20 mL conditioned solvent using a syringe, then start the automatic determination. In order to obtain highly reproducible results it is necessary to exchange the solvent after each determination.

Reagents:

Solvent: Hydranal Solvent (Riedel-de Haën)

Titrant: Hydranal Titrant 5 (Riedel-de Haën)

Results: AVG(5) = 0.785 +/- 0.009 % water

Settings: 701 KF Titrino

>titration parameters

extr.time	30 s
stop crit.:	drift
stop drift	30 uL/min

>preselections

conditioning:	on
req.smpl size:	on
report:	full