

KF Application Note No. K- 28

Title: Water in colour paste

Summary: The water content of colour paste is determined according to Karl Fischer.

Sample: Colour paste

Sample Preparation: Weigh ca. 20 g sample into a dry septum flask. Add ca. 50 ... 70 g solvent mixture (also weighed) and a stirring bar and stopper the flask. Stir for 1 h, then let the mixture settle.

Instruments and Accessories: 701 KF Titrino, 720 KFS Titrino or 758 KFD Titrino, 703 Titration Stand, printer

Analysis: Pour ca. 20 mL methanol into the titration vessel and condition it. Then inject ca. 5 mL sample extract (weighed) using a syringe and start the water determination.
The blank of the solvent mixture is determined in the same way.

Reagents:

Solvent: solvent mixture: methanol/p-xylene/chloroform 1 : 1 : 1 (as dry as possible)
methanol (dry)
Titrant: Hydranal Composite 1 (Riedel-de Haën)

Results: AVG(3) 0.178 +/- 0.02 % water

Settings: 701 KF Titrino

>titration parameters
extr.time 5 s
stop crit.: time
t(delay) 1 s

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