KF Application Note No. K- 44

Title:	**Water in panthenol**

***Summary*:**	The water content in panthenol is determined according to Karl Fischer

Sample:	Panthenol

Sample Preparation:	Weigh about 1 g of the viscous sample into a dry Erlenmeyer flask and add about 15 g dry methanol. Close the flask with a septum stopper and mix.

Instruments and Accessories:	701 or 720 or 758 Titrino, 703 Titration Stand, Printer

Analysis:	Add about 20 mL Working Medium and about 1 mL Composite K to the titration vessel and condition it. Add about 2 g prepared sample mixture using a syringe and titrate the water content. Do the same for a blank with the methanol. **Reagents:** Solvent: Hydranal Working Medium K (Riedel de Haen) Titrant: Hydranal Composite 5K (Riedel de Haen)

Results:	AVG(3) = 3.97 +/- 0.10 % water

Settings:

720 KFS-Titrino

> titration parameters		> control parameters	
titr. direction:	„-„	EP at U	250 mV
pause 1	0 s	dynamics	100 mV
Start V:	off	stop crit:	drift
extr. Time	0 s	stop drift	20 uL/min
I(pol)	50 uA		