

# KF Application Note No. K- 22

**Title:** Water in pesticide formulations

**Summary:** The water content of pesticide formulations (in cyclohexanone) is determined according to Karl Fischer.

**Sample:** Solutions containing 40% or 60% pesticide in cyclohexanone

**Sample Preparation:** none

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

**Analysis:** Pour ca. 30 mL solvent into the titration vessel and condition it. Then add ca. 2 g sample using a syringe and start the water determination.

**Reagents:**

Solvent: Hydranal Working Medium K (Riedel-de Haën)

Titration: Hydranal Composite 5K (Riedel-de Haën)

**Results:** Sample A (40% pesticide): AVG(5) = 0.479 +/- 0.05 % water  
Sample B (60% pesticide): AVG(5) = 0.673 +/- 0.03 % water

**Settings:** 701 KFTitrino

>titration parameters

extr.time	0 s
stop crit.:	drift
stop drift	20 uL/min

>preselections

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