

# KF Application Note No. K- 42

**Title:** Water in silicon oil

**Summary:** The water content of silicon oil is determined according to Karl Fischer by coulometric titration

**Sample:** Silicon oil

**Sample Preparation:** none

**Apparatus and Accessories:** 737 KF Coulometer, cell without diaphragm, 728 Magnetic Stirrer, Printer

**Analysis:** Fill about 80 mL Coulomat AG-H and 20 mL toluene into the cell and condition it until the drift is below 10  $\mu\text{g}/\text{min}$  and stable. Rinse the syringe with sample before each injection. Inject about 0.5 g sample into the cell (sample size by difference weighing) and start the automatic determination.

**Reagents:** Hydranal Coulomat AG-H (Riedel de Haen)  
Toluene

**Results:** AVG(3) = 115 +/- 2.6 ppm water

**Settings:**

737 KF Coulometer	
smpl. Requ.	On
d. start	16 $\mu\text{g}/\text{min}$
extr.	15 s
stop drift:	auto
delay time	3 s
report:	full