KF Application Note No. K-14

Title:	Water in diesel fuel and petrol (gasoline)	
Summary:	The water content of diesel fuel and petrol (gasoline) is determined according to Karl Fischer. Because of the low water content the determinations are carried out by coulometric titration.	
Sample:	Diesel fuel T105 Gasoline 313 and T51	
Sample Preparation:	none	
Instruments an Accessories:	d 737 KF Coulometer, cell without diaphragm, 728 Magnetic Stirrer, printer	
Analysis:	until the drift is steady and below 10 ug/min. Prior to each injection rinse the syringe with the sample solution. Inject 2 5 g sample into the cell (the exact sample mass is determined by difference weigh- ing) and start the automatic determination.	
	Reagents: Hydranal Coulomat AG-H (Riedel-de Haën)	
Results:	Diesel T105: Gasoline 313: Gasoline T51:	AVG(3) = 94.3 +/- 2.3 ppm water AVG(3) = 45.9 +/- 1.5 ppm water AVG(3) = 108.8 +/- 3.5 ppm water
Settings:	737 KF Coulometer	
	smpl.req: d.start extr. stop drift: delay time	on 20 ug/min 0 s auto 3 s

full

report: