## **KF** Application Note No. K-3

Title:	Water in	ammonium	and	potassium	peroxodisul-
	phate (pe	rsulphates)			

Summary:	The water content of ammonium and potassium peroxodisulphate is
	determined according to Karl Fischer using two-component rea-
	gents. To prevent unwanted side reactions the determinations are
	carried out at -20 °C. Because the potassium salt is insoluble in the
	solvent, a high-frequency mixer is used to disintegrate the salt parti-
	cles.

Sample: Ammonium and potassium peroxodisulphate

Sample			
Preparation:	none		

Instruments and Accessories:	701 KF Ti tron PT 12	trino or 720 KFS Titrino, 703 Titration Stand, printer, Poly- 200 Disintegrator, low temperature circulation system	
Analysis	Wait for a	steady drift below 6 ul /min then add ca 1 15 a sample	
	using a glass weighing spoon. An extraction time of 2 min with intensive stirring (Polytron PT 1200, speed «3») has been used for the automatic determination.		
	Reagents:		
	Solvent:	50% formamide + 50% Hydranal Solvent (Riedel-de Haën)	
	Titrant:	Hydranal Titrant 5 (Riedel-de Haën)	

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K <sub>2</sub> S	S <sub>2</sub> O <sub>8</sub> : A	VG(5) = 419 +/- 28 ppm water

Settings:	701 KF Titrino	
	>titration parameters	
	extr.time	120 s
	stop crit.:	drift
	stop drift	20 uL/min
	>preselections	
	conditioning:	on
	req.smpl size:	on
	report:	full