KF Application Note No. K-30

Title:	Water in bismuth subnitrate (BiONO ₃)	
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Summary:	Karl Fischer.	bismuth subnitrate is determined according to
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Sample:	Bismuth subnitrate (BiONO ₃)	
Sample		
Preparation:	Weigh ca. 5 g sample into a dry septum flask. Add 50 mL dry methanol (also weighed) and a stirring bar and stopper the flask. Stir for 1 h, then let the mixture settle for 5 min.	
Instruments and Accessories:	701 KF Titrino, 720 KFS Titrino or 758 KFD Titrino, 703 Titration Stand, printer	
Analysis:	Pour ca. 20 mL methanol into the titration vessel and condition it. Then inject ca. 3 mL sample extract (without any undissolved BiONO ₃) using a syringe and start the automatic determination. The exact sample mass is determined by difference weighing.	
	Reagents:	
	Solvent: methanol (dry)	
	Titrant: Hydranal Composite 5 (Riedel-de Haën)	
Desulta		
Results:	AVG(3) = 1.65 +/- 0.006 % water	
Settings:	701 KF Titrino	
	>titration parameters	
	extr.time	20 s
	stop crit.:	drift
	stop drift	20 uL/min
	>preselections	
	conditioning:	on
	req.smpl size:	on full
	report:	IUII