

KF Application Note No. K- 37

Title: Water in 2-methyl-5-mercaptotriadiazole

Summary: The water content of 2-methyl-5-mercaptotriadiazole is determined according to Karl Fischer using a special solvent mixture in order to prevent unwanted side reactions.

Sample: 2-methyl-5-mercaptotriadiazole

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, add 5 g salicylic acid and condition the mixture. Then add ca. 2 g sample and start the water determination.

Reagents:

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

Titration: Hydranal Composite 5 (Riedel-de Haën)

Settings: 701 KF Titrino

>titration parameters

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

>preselections

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