

# KF Application Note No. K- 31

**Title:** Water in 2-methyl-1,3-butadiene and 2,5-norbornadiene

**Summary:** The water content of 2-methyl-1,3-butadiene and 2,5-norbornadiene is determined according to Karl Fischer using a special solvent mixture in order to prevent unwanted side reactions.

**Sample:** 2-methyl-1,3-butadiene, 2,5-norbornadiene

**Sample Preparation:** none

**Instruments and Accessories:** 701 KF Titrino, 720 KFS Titrino or 758 KFD Titrino, 703 Titration Stand, printer

**Analysis:** Add ca. 5 mL sample with a syringe to the titration vessel containing 30 mL of the conditioned solvent mixture and start the water determination.

**Reagents:**

Solvent: methanol/1-propanol 1 : 2

Titration: Hydranal Composite 2 (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.sampl size: | on   |
| report:         | full |