

KF Application Note No. K-25

Summary: The water content of potato crisps is determined according to Karl Fischer using the oven method (140 °C).

Sample: Potato crisps

Sample

Preparation: Break the crisps into small pieces (without opening the package).

Instruments and

Accessories: 701 KF Titrino, 720 KFS Titrino or 758 KFD Titrino, 703 Titration

Stand, 707 KF Drying Oven, printer

Analysis: Dry the sample boats in an oven at 200 °C for 30 min and then allow

them to cool in a desiccator.

Heat the 707 KF Drying Oven to 140 °C and set the flow rate of the air stream to 100 mL/min. Weigh exactly ca. 1.5 g sample into the aluminium insert of a dry sample boat. Start the determination with the «start» button on the 707. During the purge time put the sample boat into the cold compartment of the oven and close the oven tube. After the purge time the sample boat is automatically transported into the hot oven compartment.

report:

full

The blank of the sample boats is determined in the same way.

Reagents:

Solvent: methanol (dry)

Titrant: Hydranal Composite 5 (Riedel-de Haën)

Results: AVG(3) = 1.79 +/- 0.02 % water

707 KF Oven 701 KF Titrino Settings: temperature 140 °C >titration parameters unit gas flow: mL/min 180 s extr.time min.gas flow 70 mL/min stop crit.: drift 20 uL/min gas type: air stop drift purge time 15 s >preselections cond.time 0 s req.smpl size: on