The most effective way to analyze halogens and sulfur also becomes a European Standard!

Flask-type Combustion Apparatus according to Schöniger

Mikro-K

Classical methods for the micro and semi-micro analysis for the determination of hetero-elements in organic compounds (**F**, **Cl**, **Br**, **I**, **S**, **P**, etc.) require a great deal of time, as well as elaborate equipment. The combustion in the oxygen filled flask being introduced by **Schöniger** and led to instrumental maturity by Elementar has the following advantages:

- easy handling
- digestion time less than 1 minute
- suitable for micro and semi-micro analysis
- free choice of the method of final concentration determination
- lowest purchasing and operating costs

Elementar Analysensysteme is the major German manufacturer of instruments for the elemental analysis of nonmetallic elements and offers with the **Mikro-K** a digestion unit according to Schöniger which fulfills all requirements of modern instrumental analysis - also regarding the current safety regulations. The performance of the basic concept is a recognized standard method and has proven to be good in hundreds of installations. The new draft of an European standard for the analysis of halogens and sulfur in waste shows how up-to-date the digestion method is. The instrumental basis is Mikro-K.

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100 years German Technology
for Quality and Environmental Control

Specification Mikro-K

Method:	Schöniger flask method in oxygen atmosphere. Fixing of the sample e.g. at filter paper on a sample holder and an ignator made of quartz and platinum. Insertion in a special Erlenmeyer flask filled with O_2. Electrical ignition and absorption of the combustion products in an aquaeous solution. Method of analysis by choice, e.g. ionchromatography, titration, etc. In accordance with a number of standard methods as well as European Standard CEN/TC 292/WG5N164E (draft) (”Characterization of waste - Halogen and sulfur content - oxygen combustion in closed systems and determination methods”)
Sample:	Substances with combustible organic content, solid or liquid, with low vapor pressure (for volatile substances capsules or capillaries can be used as containers). Typical sample weight is 5-50 mg (depending on combustible content and volatility in order to prevent from too high pressure during combustion).
Safety measures:	CE label for electrical safety Plexiglass safety shield Remote control of ignition Safety cabinet Special Erlenmeyer flask with reinforced walls (An additional safety measure is operation of instrument during ignition behind an additional shield)
Combustion flask:	750 ml (NS 29, wall reinforced)
Power supply:	230 V, 25 VA (during ignition)
Dimensions (cm):	25 x 43 x 20 (W x H x D)
Weight:	7 kg

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