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## 8. SUBSTANCES CONTAINING HETERO CYCLIC OXYGEN

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See also 1695, 1698, 1737, 1908, 2637.

## 15b. Essential oils

For additional information see C.A.:  
119 (1993) 278876x.

## 15c. Bitter substances

See 2223.

## 16. NITRO AND NITROSO COMPOUNDS

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For additional information see C.A.:  
119 (1993) 216516w.

See also 1549, 2358.

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For additional information see C.A.:

- 119 (1993) 269295e;  
120 (1994) 26674u.

See also 1541, 1576, 1663, 1664, 1871, 2349, 2664, 2686, 2687, 2688.

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See also 2674.

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**17d. Other amine derivatives and amides (excl. peptides)**

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See also 1739, 2350.

**18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS**

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## 20. ENZYMES AND ENZYME ACTIVITY ESTIMATION

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21. PURINES, PYRIMIDINES, NUCLEIC ACIDS AND THEIR CONSTITUENTS

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## 21b. Nucleic acids, RNA

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### 33. CLINICO-CHEMICAL APPLICATIONS

#### 33a. General papers and reviews

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#### 34. FOOD ANALYSIS

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- 34c. Organoleptically important compounds (flavors, odors, volatiles)
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##### 35b. Air pollution (complex mixtures; single compounds by cross-reference only)

See 1546, 1688, 1704, 1806, 2766.

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- 23e. *Other N-heterocyclic compounds*
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#### 33a. General papers and reviews

See 393.

#### 33b. Complex mixtures and profiling (single compounds by cross-reference only)

See 277, 327, 343, 406.

## 34. FOOD ANALYSIS

34b. *Complex mixtures (single compounds by cross-reference only)*  
 See 262, 263, 279, 329.

34c. *Organoleptically important compounds (flavors, odors, volatiles)*  
 See 441.

## 35. ENVIRONMENTAL ANALYSIS

35a. *General papers and reviews*  
 See 255, 419.

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## Electrophoresis

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## 19. PROTEINS

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## 33b. Complex mixtures and profiling (single compounds by cross-reference only)

- See 779, 784, 786, 787, 788, 794, 795, 798, 802, 817, 916, 926, 931, 933, 1030, 1047, 1054, 1068, 1070, 1085, 1159, 1232, 1239, 1269.

## 34. FOOD ANALYSIS

## 34b. Complex mixtures (single compounds by cross-reference only)

- See 755, 772, 974, 1273.

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# Flow-Through (Bio)Chemical Sensors

By M. Valcárcel and M.D. Luque de Castro, Department of Analytical Chemistry,  
University of Córdoba, 14004 Córdoba, Spain

Techniques and Instrumentation in Analytical Chemistry Volume 16

Flow-through sensors are more suitable than classical probe-type sensors for addressing real (non-academic) problems. The external shape and operation of flow-through (bio)chemical sensors are of great practical significance as they facilitate sample transport and conditioning, as well as calibration and sensor preparation, maintenance and regeneration, all of which result in enhanced analytical features and a wider scope of application. This is a systematic presentation of flow-through chemical and biochemical sensors based on the permanent or transient immobilization of any of the ingredients of a (bio)chemical reaction (i.e. the analyte, reagent, catalyst or product) where detection is integrated with the analytical reaction, a separation process (dialysis, gas diffusion, sorption, etc.) or both.

The book deals critically with most types of flow-through sensors, discussing their possibilities and shortcomings to provide a realistic view of the state-of-the-art in the field. The large numbers of figures, the wealth of literature references and the extensive subject index complement the text.

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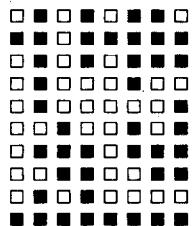
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