

# THE CBS CLASSIFICATION SYSTEM

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1. **Reviews and books**
  - a) Books on TLC
  - b) Books containing one or several chapters on TLC
  - c) Books containing frequent TLC information spread over several chapters of other information
2. **Fundamentals, theory and general**
  - a) General b) Thermodynamics and theoretical relationship
  - c) Relationship between structure and chrom. behaviour
  - d) Measurement of physico-chemical and related values
  - e) Optimization of solvent systems
  - f) Validation of methods
3. **General techniques** (unless they are restricted to the application within one or two classification sections)
  - a) New apparatus/techniques for sample preparation
  - b) Separation material
  - c) New apparatus for sample application/dosage
  - d) New apparatus/techniques for chromatogram development
  - e) New apparatus/techniques for pre- or post-chromatographic derivatization
  - f) New apparatus/techniques for quantitative evaluation
  - g) New apparatus/techniques for other TLC steps (distinguished from section 4)
4. **Special techniques**
  - a) Automation of sample preparation/application
  - b) Automation of complex chromatogram developing techniques
  - c) Automation, computer application in quantitative chromatogram evaluation
  - d) Combination of TLC with other chromatographic techniques
  - e) Combination of TLC with other (non-chromatographic) techniques...MS, IR...etc.
5. **Hydrocarbons and halogen derivatives**
  - a) Aliphatic hydrocarbons
  - b) Cyclic hydrocarbons
  - c) Halogen derivatives
  - d) Complex hydrocarbon mixtures
6. **Alcohols**
7. **Phenols**
8. **Substances containing heterocyclic oxygen**
  - a) Flavonoids
  - b) Other compounds with heterocyclic oxygen
9. **Oxo compounds, ethers and epoxides**
10. **Carbohydrates**
  - a) Mono- and oligosaccharides, structural studies
  - b) Polysaccharides, mucopolysaccharides, lipopolysaccharides
11. **Organic acids and lipids**
  - a) Organic acids and simple esters
  - b) Prostaglandins
  - c) Lipids and their constituents
  - d) Lipoproteins and their constituents
  - e) Glycosphingolipids (gangliosides, sulfatides, neutral glycosphingolipids)
12. **Organic peroxides**
13. **Steroids**
  - a) Pregnane and androstane derivatives
  - b) Estrogens
  - c) Sterols
  - d) Bile acids and alcohols
  - e) Ecdysones and other insect steroid hormones
14. **Steroid glycosides, saponins and other terpenoid glycosides**
15. **Terpenes and other volatile plant ingredients**
  - a) Terpenes
  - b) Essential oils
16. **Nitro and nitroso compounds**
17. **Amines, amides and related nitrogen compounds**
  - a) Amines and polyamines
  - b) Catecholamines and their metabolites
  - c) Amino derivatives and amides (excluding peptides)
18. **Amino acids and peptides, chemical structure of proteins**
  - a) Amino acids and their derivatives
  - b) Peptides and peptidic proteinous hormones
19. **Proteins**
20. **Enzymes**
21. **Purines, pyrimidines, nucleic acids and their constituents**
  - a) Purines, pyrimidines, nucleosides, nucleotides
  - b) Nucleic acids, RNA, DNA
22. **Alkaloids**
23. **Other substances containing heterocyclic nitrogen**
  - a) Porphyrins and other pyrroles
  - b) Bile pigments
  - c) Indole derivatives
  - d) Pyridine derivatives
  - e) other N-heterocyclic compounds
24. **Organic sulfur compounds**
25. **Organic phosphorus compounds** (other than phospholipids)
26. **Organometallic and related compounds**
  - a) Organometallic compounds
  - b) Boranes, silanes and related non-metallic compounds
  - c) Coordination compounds
27. **Vitamins and various growth regulators** (non-peptidic)
28. **Antibiotics, Mycotoxins**
  - a) Antibiotics
  - b) Aflatoxins and other mycotoxins
29. **Pesticides and other agrochemicals**
  - a) Chlorinated insecticides
  - b) Phosphorus insecticides
  - c) Carbamates
  - d) Herbicides
  - e) Fungicides
  - f) Other types of pesticides and various agrochemicals
30. **Synthetic and natural dyes**
  - a) Synthetic dyes
  - b) Chloroplasts and other natural pigments
31. **Plastics and their intermediates**
32. **Pharmaceutical and biomedical applications**
  - a) Synthetic drugs
  - b) Pharmacokinetic studies
  - c) Drug monitoring
  - d) Toxicological applications
  - e) Plant extracts
  - f) Clinico-chemical applications and profiling body fluids
  - g) Herbal and traditional medicines
33. **Inorganic substances**
  - a) Cations
  - b) Anions
34. **Radioactive and other isotopic compounds**
35. **Other technical products and complex mixtures**
  - a) Surfactants
  - b) Antioxidants and preservatives
  - c) Various specific technical products
  - d) Complex mixtures and non-identified compounds
36. **Thin-layer electrophoresis**
37. **Environmental analysis**
  - a) General papers
  - b) Air pollution
  - c) Water pollution
  - d) Soil pollution
38. **Chiral separations**

XX. (abstract number underlined) refers to HPTLC related publication or application using HPTLC materials