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FORMAL CATEGORIES IN THE SYSTEMATIC CATALOGUE FOR CHEMISTRY – F1V
(page heading)

- 0 **General overview**
- 1 **Textbooks**
- 2 **Compendia, reviews, guidelines, summaries and lecture notes**
- 3 **Specialised dictionaries, encyclopaedias, terminology, nomenclature**
- 4 **Bibliographies, documentation**
- 5 **Audiovisual media, films etc.**
- 6 **Tables, tabulations, spectral catalogues etc.**
- 7 **Doctoral theses, *Habilitation* theses, comprehensive and significant reprints**
- 8 **Conferences, proceedings, schools, symposia**
- 9 ***Festschriften* and memorial publications with scientific content**

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS – Z2S
(page heading)

- 000 aa - ac
- 001 ad - af
- 002 ag - ai
- 003 aj - al
- 004 am - ao
- 005 ap - ar
- 006 as - ass
- 007 ast - au
- 008 av - ax
- 009 ay - az
- 010 ba - bc
- 011 bd - bf
- 012 bg - bi
- 013 bj - bl
- 014 bm - bo
- 015 bp - br
- 016 bs - bss
- 017 bst - bu
- 018 bv - bx
- 019 by - bz
- 020 ca - cc
- 021 cd - cf
- 022 cg - ci
- 023 cj - cl
- 024 cm - co
- 025 cp - cr
- 026 cs – css

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

027 cst - cu
028 cv - cx
029 cy - cz
030 da - dc
031 dd - df
032 dg - di
033 dj - dl
034 dm - do
035 dp - dr
036 ds - dss
037 dst - du
038 dv - dx
039 dy - dz
040 ea - ec
041 ed - ef
042 eg - ei
043 ej - el
044 em - eo
045 ep - er
046 es - ess
047 est - eu
048 ev - ex
049 ey - ez
050 fa - fc
051 fd - ff
052 fg - fi
053 fj - fl

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

054 fm - fo
055 fp - fr
056 fs - fss
057 fst - fu
058 fv - fx
059 fy - fz
060 ga - gc
061 gd - gf
062 gg - gi
063 gj - gl
064 gm - go
065 gp - gr
066 gs - gss
067 gst - gu
068 gv - gx
069 gy - gz
070 ha - hc
071 hd - hf
072 hg - hi
073 hj - hl
074 hm - ho
075 hp - hr
076 hs - hss
077 hst - hu
078 hv - hx
079 hy - hz
080 ia - ic

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

081 id - if
082 ig - ii
083 ij - il
084 im - io
085 ip - ir
086 is - iss
087 ist - iu
088 iv - ix
089 iy - iz
090 ja - jc
091 jd - jf
092 jg - ji
093 jj - jl
094 jm - jo
095 jp - jr
096 js - jss
097 jst - ju
098 jv - jx
099 jy - jz
100 ka - kc
101 kd - kf
102 kg - ki
103 kj - kl
104 km - ko
105 kp - kr
106 ks - kss
107 kst - ku

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

108 kv - kx
109 ky - kz
110 la - lc
111 ld - lf
112 lg - li
113 lj - ll
114 lm - lo
115 lp - lr
116 ls - lss
117 lst - lu
118 lv - lx
119 ly - lz
120 ma - mc
121 md - mf
122 mg - mi
123 mj - ml
124 mm - mo
125 mp - mr
126 ms - mss
127 mst - mu
128 mv - mx
129 my - mz
130 na - nc
131 nd - nf
132 ng - ni
133 nj - nl
134 nm - no

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

135 np - nr
136 ns - nsp
137 nst - nu
138 nv - nx
139 ny - nz
140 oa - oc
141 od - of
142 og - oi
143 oj - ol
144 om - oo
145 op - or
146 os - oss
147 ost - ou
148 ov - ox
149 oy - oz
150 pa - pc
151 pd - pf
152 pg - pi
153 pj - pl
154 pm - po
155 pp - pr
156 ps - pss
157 pst - pu
158 pv - px
159 py - pz
160 qa - qc
161 qd - qf

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

162 qg - qi
163 qj - ql
164 qm - qo
165 qp - qr
166 qs - qss
167 qst - qu
168 qv - qx
169 qy - qz
170 ra - rc
171 rd - rf
172 rg - ri
173 rj - rl
174 rm - ro
175 rp - rr
176 rs - rss
177 rst - ru
178 rv - rx
179 ry - rz
180 sa - scg
181 scha - schc
182 schd - schf
183 schg - schi
184 schj - schl
185 schm - scho
186 schp - schr
187 schs - schss
188 schst - schu

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

189 schv - schx
190 schy - schz
191 sd - sf
192 sg - si
193 sj - sl
194 sm - so
195 spa - spc
196 spd - spf
197 spg - spi
198 spj - spl
199 spm - spo
200 spp - spr
201 sps - spss
202 spst - spu
203 spv - spx
204 spy - spz
205 sq
206 sr
207 ss
208 sta - stc
209 std - stf
210 stg - sti
211 stj - stl
212 stm - sto
213 stp - str
214 sts - stss
215 stst - stu

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

216 stv - stz
217 su
218 sv - sx
219 sy - sz
220 ta - tc
221 td - tf
222 tg - ti
223 tj - tl
224 tm - to
225 tp - tr
226 ts - tss
227 tst - tu
228 tv - tx
229 ty - tz
230 ua - uc
231 ud - uf
232 ug - ui
233 uj - ul
234 um - uo
235 up - ur
236 us - uss
237 ust - uu
238 uv - ux
239 uy - uz
240 va - vc
241 vd - vf
242 vg - vi

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

- 243 vj - vl
- 244 vm - vo
- 245 vp - vr
- 246 vs - vss
- 247 vst - vu
- 248 vv - vx
- 249 vy - vz
- 250 wa - wc
- 251 wd - wf
- 252 wg - wi
- 253 wj - wl
- 254 wm - wo
- 255 wp - wr
- 256 ws - wss
- 257 wst - wu
- 258 wv - wx
- 259 wy - wz
- 260 xa - xc
- 261 xd - xf
- 262 xg - xi
- 263 xj - xl
- 264 xm - xo
- 265 xp - xr
- 266 xs - xss
- 267 xst - xu
- 268 xv - xx
- 269 xy - xz

NUMBER KEYS FOR ALPHABETIC REFERENCE USING THE FIRST TWO LETTERS (page heading)

- 270 ya - yc
- 271 yd - yf
- 272 yg - yi
- 273 yj - yl
- 274 ym - yo
- 275 yp - yr
- 276 ys - yss
- 277 yst - yu
- 278 yv - yx
- 279 yy - yz
- 280 za - zc
- 281 zd - zf
- 282 zg - zi
- 283 zj - zl
- 284 zm - zo
- 285 zp - zr
- 286 zs - zss
- 287 zst - zu
- 288 zv - zx
- 289 zy - zz

VA Review journals, periodicals, handbooks

- 1040 Chemical Abstracts
 - 1041 Semi-annual Index for CA
 - 1042 Collective index for CA
 - 1044 Ring Systems Handbook
 - 1045 Chemical Abstracts Service Source Index (CASSI)
- 1060 Beilstein's *Handbuch der Organischen Chemie*
 - 1070 Beilstein collective index
 - 1080 Beilstein complete formula index
- 1097 Gmelin's *Handbuch der Anorganischen Chemie*
(with incorporated supplements)
 - 1099 Index for Gmelin's *Handbuch*
- 1110 *Fortschritte der chemischen Forschung* - Topics in Current Chemistry
- 1120 Periodicals

VB Bibliographies and reference works; history and didactics of chemistry and pharmacy; occupational safety.

- 1010 – 1999 Bibliographies and reference works,**
(of general character; not specialised to a single sub-field).
- 1010 General reference works;**
reference works for general chemistry cf. VC 1000 ff.
- 1025 Bibliographies of periodicals titles. Lists of abbreviations and titles; abbreviations for general standards; catalogues of abbreviations.**
- 1030 Current bibliographies.**
Current bibliographies for specific sub-fields are found under the corresponding systematics topics with the key for bibliographies of journals; cf. VA 1000 ff.
- 1070 Retrospective bibliographies and library catalogues.**
Bibliographies and catalogues for specific sub-fields are found under the corresponding systematics topics with the key for bibliographies.
- 1100 - 1399 Language dictionaries**
- 1100 Multilingual dictionaries,**
- 1100.27 Ordered by the number keys with reference to the lesser-known language**
(see explanatory remarks in the Wiki online).
- 1100 Chemistry and pharmacy in general**
- 1100.03 For general chemistry; mathematics, statistics and data processing.**
- 1100.05 For physical and theoretical chemistry;**
- 1100.07 For analytical chemistry;**
- 1100.08 For inorganic chemistry;**
- 1100.11 For organic chemistry;**
- 1100.14 For applied and technical chemistry;**
- 1100.18 For general pharmacy;**
- 1100.19 For pharmaceutical chemistry and molecular pharmacology;**
- 1100.23 For pharmacology and toxicology;**
- 1100.26 For pharmaceutical biology;**
- 1100.27 For pharmaceutical technology including biopharmacy;**
- 1110 +Z2S Language dictionaries.**
For usage please consult the Wiki entry and the examples there.
- 1700 Bibliographic reference works on chemists and pharmacists/pharmacologists including address lists and catalogues of scientific research institutions.**
- 1710 +Z2S Personal bibliographies,**
Ordered according to the number keys (CSN of the editor).
- 2000 Popularisations; trivial literature; books for young people.**
- 2100 Interdisciplinary questions on science and philosophy. Ethics in chemical research. General considerations concerning chemical and pharmaceutical research.**
- 2300 - 3399 History of chemistry and pharmacy**
- 2300 +F1V General overviews**
- 2310 +F1V Antiquity**
- 2320 +F1V Middle Ages**
- 2330 +F1V Alchemy**
- 2340 +F1V Modern period overall; the chemical industry**
- 2360 +F1V History of chemistry to the end of the 18th century**
- 2380 +F1V History of chemistry in the 19th and 20th centuries**
- 2390 +F1V History of chemistry in the 21st century**
- 2400 +F1V History of specific problems and sub-fields of chemistry and pharmacy**
- 2410 +F1V History of organic chemistry**
- 2420 +F1V History of analytical chemistry**
- 2450 +F1V History of pharmacy and pharmacology**
- 2460 +F1V History of pharmacy and pharmacology in individual countries**
- 2470 +F1V History of pharmacy and pharmacology in Germany**
- 2480 +F1V History of pharmacy and pharmacology in Austria**

- 2510 +Z2S** Collected works of chemists and pharmacists/pharmacologists,
Ordered according to the number keys (corresponding to the respective scientist); subcategories with a decimal point and the last three digits of the year of publication.
- 2800** Anthologies of classic works
- 2810 +Z2S** Individual classic works,
Ordered by authors using the number keys and CSN of the editor; e.g. Ostwald's classics.
- 3100** Biographies and biographical material on various chemists and pharmacists/ pharmacologists.
- 3110 +Z2S** Biographies and autobiographies of chemists and pharmacists/pharmacologists,
Including biographical material such as compilations of letters and correspondence, ordered by the number keys of the subject and CSN of the author or editor.
- 3410 +Z2S** *Festschriften* for individual scientists,
Ordered by the number keys of the subject and CSN of the editor.
- 3710 +Z2S** *Festschriften* and memorials for groups,
(e.g. companies such as Hoechst or BASF), ordered by the number keys of the group and CSN of the editor.
- 4010 +F1V** Research planning; chemical industry; pharmaceutical industry.
Indiv. signum: 4010.0: Documents from the Hoechst archives; 4010.1: Boehringer Mannheim Yearbook; 4010.2: Research Activities in Pharmacology, Univ. of Heidelberg; 4010.3: Volkswagen Foundation, Report.
- 4045** Didactics and methodology in chemistry and pharmacy in general.
- 4048** Aspects of professional education for chemistry and related professions; guides for students; educational aspects for pharmaceutical centres *cf.* VR 2650.
- 4050 - 4064** Didactics and methodology in chemistry and pharmacy at:
- 4050** Universities
Curricula etc. for chemistry and pharmacy; continuing education.
- 4051** Technical colleges, adult education, correspondence and online courses;
- 4052** High schools, upper forms (classes 11-12);
- 4053** Middle schools, middle forms (classes 7-10);
- 4054** Technical schools;
- 4055** Secondary and elementary schools.
- 4060 - 4080** Didactic aids and teaching materials for:
- 4060** Universities
For university-level textbooks cf. the corresponding systematics categories.
- 4061** Technical colleges, adult education, correspondence and online courses;
- 4062** High schools, upper forms (classes 11-12);
- 4063** Middle schools, middle forms (classes 7-10);
- 4064** Technical schools;
- 4065** Secondary and elementary schools;
- 4071** Textbooks for technical colleges, adult education, correspondence and online courses.
- 4072 - 4084** School textbooks for:
- 4072** High schools, upper forms (classes 11-12);
- 4073** Middle schools, middle forms (classes 7-10);
- 4074** Technical schools;
- 4075** Secondary and elementary schools.
- 4090 - 4104** Curricula and examination programmes for:
- 4090** Universities;
- 4091** Technical colleges, adult education, correspondence and online courses;
- 4092** High schools, upper forms (classes 11-12);
- 4093** Middle schools, middle forms (classes 7-10);
- 4094** Technical schools;
- 4095** Secondary and elementary schools.
- 4100 - 4179** Occupational safety
- 4100 +F1V** Laboratory equipment and operations; technical drafting in the laboratory; catalogues of charges and fees.
- 4130 +F1V** Laws governing the use of chemicals, utensils and foodstuffs; good laboratory practice; for hazardous materials ordinances and pharmaceuticals laws, *cf.* VR 2500.
- 4150 +F1V** Occupational safety; protective measures.
- 4170 +F1V** Radiological protection; handling and working with radioactive materials.

- 4190 +F1V Patents**
(see also the systematic category *Jurisprudence*).
- 4200 +F1V Technical terminology, general aspects of nomenclature;**
Nomenclature for specific sub-fields can be found in the corresponding systematics categories under the key for nomenclature.
- 4300 +F1V Introductions to the use of the literature in the fields of chemistry and pharmacy;**
Conventional evaluation of the chemical literature etc.; data bank searches; chemistry information systems and data banks cf. VC 6700.
- 4400 +F1V Guidelines for writing and publishing contributions to the chemical literature; good scientific practice; planning conferences in English for chemists and others.**
- 4500 +F1V Address lists of companies and sources of material.**
- 4600 +F1V Catalogues of chemicals and reagents;**
Indiv. signum: 4600.0 Aldrichimica Acta; 4600.1 Schriftenreihe Pigmente. Degussa.
- 4650 +F1V Sales catalogues for laboratory glassware.**
- 4700 +F1V Sales catalogues for electronics and experimental apparatus.**
- 4750 +F1V Other sales catalogues,**
Achema Jahrbücher.

VC General chemistry; mathematics, statistics and data processing in chemistry and pharmacy.

- 1000 – 1099 Reference works and tables, specialised dictionaries and handbooks on general chemistry.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VC 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VC 1000.
- 2000 - 4990 Complete publications series, multi-volume works and multi-volume handbooks which treat the entire field of chemistry.**
(In alphabetical order).
- 5000 - 5200 General chemistry**
- 5000 Overviews**
 - 5010 Textbooks**
 - 5020 Compendia, reviews, guides, summaries, lecture notes.**
 - 5030 Nomenclature, terminology.**
 - 5040 Bibliographies**
 - 5070 Doctoral theses, *Habilitation* theses, reprints.**
 - 5080 Conferences, symposia**
 - 5085 Progress reports**
 - 5100 General instruction manuals for chemistry teaching laboratories; general laboratory handbooks; for laboratory equipment, occupational safety, cf. VB 4100 ff.**
 - 5200 Compilations of exercises, “problems and solutions“; chemical computation; SI units system; stoichiometry see also VB 4090; study and examination programmes, see also VC 6000 ff.**
- 6000 - 6709 Mathematics, statistics and data processing in chemistry and pharmacy.**
- 6000 +F1V Mathematics for chemists.**
 - 6050 +F1V Chemometrics, statistics and data processing in chemistry and pharmacy; pattern recognition.**
 - 6080 +F1V Special software and software catalogues for chemistry and pharmacy; programming.**
 - 6100 +F1V Mathematics and numerical methods in theoretical chemistry, including numerically-oriented data processing (computational chemistry); for graph theory in chemistry, see also VE 5650, quantum chemistry.**
 - 6150 +F1V Artificial intelligence; expert systems.**
 - 6200 +F1V Computer graphics**
 - 6250 +F1V Molecular modelling, molecular design; drug design.**
 - 6280 +F1V Synthesis planning; structure-activity relations.**
 - 6300 +F1V Simulation**
Modelling, experiment planning, optimisation methods.
 - 6320 +F1V Reaction simulation**
 - 6340 +F1V Process simulation**
 - 6400 +F1V Computers in the laboratory.**
Computer – experiment coupling; chemometrics in analytical chemistry; statistical evaluation of analytical data; optimisation methods in analytical chemistry; error analysis, error estimation.
 - 6450 +F1V Automation, process control, process optimisation.**
 - 6500 +F1V Computer applications in the chemical industry.**
 - 6700 +F1V Chemical information systems;**
Documentations (structure documentation and structure searches); information storage and retrieval systems; data-base research.
- 7600 Dissertations and *Habilitation* theses from the University of Bayreuth in the field of chemistry.**
- 8000 Comprehensive in-house dissertations and *Habilitation* theses including “history of chemistry and pharmacy“.**
- 8600 Reprints of articles from the Chemistry Department of the University of Bayreuth.**
- 9000 Reprints of articles from the faculties for chemistry and pharmacy of specific universities.**
- 9500 DIN norms.**

VE Physical and theoretical chemistry

- 1000 – 1099** Reference works and tables, specialised dictionaries and handbooks for physical and theoretical chemistry.
These works are classified according to the year of appearance of the first edition. After the year 2000, VE 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VE 1000.
- 2000 - 4990** Complete publications series, multi-volume works and multi-volume handbooks for the entire field of physical and theoretical chemistry.
(In alphabetical order).
- 5000 - 9909** Physical and theoretical chemistry in general
- 5000** General overviews
 - 5010** Textbooks: see also under the corresponding systematic categories;
 - 5020** Compendia, reviews, guides, summaries, lecture notes;
 - 5030** Nomenclature, terminology;
 - 5040** Bibliographies;
 - 5070** Doctoral theses, *Habilitation* theses, reprints;
 - 5074** In-house Masters theses;
 - 5075** In-house dissertations;
 - 5080** Conferences, symposia;
 - 5085** Progress reports;
 - 5100** Laboratory handbooks; physical-chemical teaching laboratories.
For descriptions of physical-chemical methods, see also VN 7000 ff.
 - 5200** Compilations of exercises; “problems and solutions”; laboratory assignments; see also VC 5200: General chemistry: compilations of exercises etc.
 - 5300 +F1V** Chemical bonding; atomic structure; molecular structure; intermolecular forces (intermolecular bonding); dipoles; for dielectric properties see also VE 5600, theoretical chemistry; for complexes cf. VE 7800.
 - 5600 +F1V** Theoretical chemistry in general;
Indiv. signum: 5600.0 Advances in Quantum Chemistry 5600.1 Theoretical Chemistry (Spec. Per. Rep. Chem. Soc. London).
 - 5650 +F1V** Quantum chemistry.
 - 5700 +F1V** Group theory in chemistry; molecular symmetry; symmetry in general.
 - 5720 +F1V** Ligand-field theory
 - 5740 +F1V** Theory of molecular vibrations;
 - 5780 +F1V** Theoretical chemistry of chemical systems; chaos; fractals; non-equilibrium systems; Chemical evolution; biochemical evolution; self-organisation.
 - 5790 +F1V** Cosmochemistry (astrochemistry).
 - 5800 +F1V** Reaction kinetics; relaxation; reaction mechanisms;
Indiv. signum: 5800.0 Progress in Reaction Kinetics 5800.1 Comprehensive Chemical Kinetics 5800.2 Reaction Kinetics (Spec. Per. Rep. Chem. Soc. London).
 - 5830 +F1V** Low-temperature chemistry.
 - 5850 +F1V** High-temperature chemistry; plasma chemistry.
 - 5860 +F1V** High-vacuum techniques.
 - 5870 +F1V** High-pressure chemistry.
 - 5880 +F1V** Ultrasonic chemistry (sonochemistry).
 - 5900 +F1V** Transport processes (diffusion, mass transport etc.); solid-state reactions cf. VE 9400, rheology.
 - 6000 +F1V** Thermodynamics; differential-thermal analysis (DTA); combustion processes.
Indiv. signum: 6000.0 Chemical Thermodynamics (Spec. Per. Rep. Chem. Soc. London).
 - 6300 +F1V** Electrochemistry; redox potentials; organic semiconductors.
See also VG 8000, electroanalysis; see also VN 6040, galvanic technology; see also VN 6050, applied electrochemistry, batteries, fuels; pure organic electrochemistry, cf. VK 5660. Indiv. signum: 6300.0, Electrochemistry (Spec. Per. Rep. Chem. Soc. London); 6300.1, Modern Aspects of Electrochemistry; 6300.2, Advances in Electrochemistry and Electrochemical Engineering; 6300.3, Advances in Electrochemical Science and Engineering.
 - 6350 +F1V** Electrolytes; hydrogen-ion concentration, pH measurements; acid-base equilibria, buffer solutions; ion exchangers cf. VG 7800.

- 7000 +F1V Interface chemistry (surface chemistry).**
Indiv. signum: 7000.0 Advances in Colloid and Interface Science.
- 7020 +F1V Adsorption, desorption.**
- 7040 +F1V Catalysis.**
*Indiv. signum: 7040.0 Advances in Catalysis 7040.1 Catalysis Reviews
7040.2 Catalysis (Spec. Per. Rep. Chem. Soc. London).*
- 7060 +F1V Surface-active materials (tensides);** see also VK 7900.
- 7070 +F1V Foams**
- 7080 +F1V Emulsions**
- 7090 +F1V Aerosols;** see also VX 8240.
- 7100 +F1V Membranes; membrane transport; biomembranes;** see also WE 5000 ff.
- 7300 +F1V Structure of liquids.**
- 7600 +F1V Mixed phases; solutions** see also VE 7300; **structure of liquids;**
electrolyte solutions *cf.* VE 6350.
- 7800 +F1V Complex intermolecular forces** *cf.* VE 5300 (**coordination compounds**);
occlusion and addition compounds.
See also VH 9600, inorganic complexes,
see also VK 5800, organic complexes,
see also VK 7150, macrocyclic compounds.
- 8000 +F1V Colloids; macromolecules.**
*Indiv. signum: 8000.0 Colloid Science (Spec. Per. Rep. Chem. Soc. London);
8000.1 Advances in Colloid and Interface Science 8000.2 Macromolecular
Chemistry (Spec. Per. Rep. Chem. Soc. London).*
Technical chemistry of polymers, *cf.* VN 5900 ff.; see also VK 8000,
organic chemistry: polymers.
- 8100 +F1V Cluster compounds, cluster ions, metallic clusters** *cf.* VH 9600; see also
occlusion compounds, VE 7800; see also **supramolecular structures, VK 7150.**
- 8300 +F1V Photochemistry; nuclear radiations, nuclear chemistry, radiochemistry;**
see also VH 5600, **photochemistry of inorganic materials;** see also VK 5600,
photochemistry of organic compounds; see also VN 6080, **nuclear technology.**
*Indiv. signum: 8300.0 Photochemistry (Spec. Per. Rep. Chem. Soc. London)
8300.1 Radiochemistry (Spec. Per. Rep. Chem. Soc. London).*
- 8400 +F1V Isotopes; isotope effects;**
Tritium; Deuterium.
- 8600 +F1V Spectroscopy (theory only within this category);**
*application of individual methods, cf. VG 8900-9800; symposia on
spectroscopic methods, cf. VG 8908; theory of molecular vibrations, cf. VE 5740.*
- 8700 +F1V Optical rotational dispersion (ORD), circular dichroism (CD); optical activity
in general.**
- 9000 +F1V Magnetochemistry; NMR, cf. VG 9500; ESR, cf. VG 9700.**
- 9300 +F1V Solid-state chemistry in general;**
Indiv. signum: 9300.0 Advances in Solid-state Chemistry.
- 9350 +F1V Structure and models of solids;**
*Crystallography; crystal structures; crystal chemistry; stereochemistry.
For stereochemistry, see also VH 5800, inorganic stereochemistry;
VK 5800, organic stereochemistry.*
- 9400 +F1V Solid-state reactions**
- 9500 +F1V Methods of solid-state chemistry, physical properties of solids;**
phase diagrams; crystallisation, X-ray structure analysis *cf.* VG 9900.
- 9530 +F1V One- and two-dimensional systems; organic conductors.**
- 9550 +F1V Liquid crystals**
- 9580 +F1V Opto-electronic materials; photochromic compounds; electrochromic materials;**
electrochromics.
- 9600 +F1V Mineralogy; zeolites, geochemistry, mineralogical techniques:** *cf.* VN 6060.
- 9650 +F1V Metallurgy;** see also VN 6020, **inorganic materials.**
- 9670 +F1V Materials science, glass chemistry;** see also VN 6020, **inorganic materials.**
- 9800 +F1V Mechanochemistry, tribochemistry.**
- 9850 +F1V Nanotechnology, nanoparticles, nanostructured materials, smart materials,**
mesoscopic systems.
- 9900 +F1V Experimental physical chemistry;**
Physical-chemical measurements, temperature measurements, etc.;
physical-chemical teaching laboratories, cf. VE 5100.

VG Analytical chemistry

- 1000 - 1099** Reference works and tables, specialised dictionaries and handbooks for the entire field of analytical chemistry.
These works are classified according to the year of appearance of the first edition. After the year 2000, VG 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VG 1000.
- 2000 - 4990** Complete publications series, multi-volume works and multi-volume handbooks for the entire field of analytical chemistry.
(In alphabetical order).
- 5000 - 9909** Analytical chemistry in general
- 5000** General overviews;
 - 5010** Textbooks; see also under the corresponding systematics categories;
 - 5020** Compendia, reviews, guides, summaries, lecture notes;
 - 5030** Nomenclature, terminology;
 - 5040** Bibliographies;
 - 5070** Doctoral theses, *Habilitation* theses, reprints;
 - 5074** In-house Masters theses;
 - 5075** In-house dissertations;
 - 5080** Conferences, symposia;
 - 5085** Progress reports;
 - 5100** General guides for teaching laboratories in analytical chemistry.
See also VG 6001, qualitative analysis and VG 6101, quantitative analysis.
 - 5150** Combinations of several analytic methods. Analytic methods for particular groups and elements.
See also VG 6000, qualitative analysis and VG 6100, quantitative analysis.
 - 5170 +F1V** Automation (automatic analysis); autoanalysis; rapid tests; flow injection analysis, sampling.
 - 5200 +F1V** Compilations of exercises, “problems and solutions“, calculation exercises for analytical chemistry.
 - 5500 +F1V** Archaeological chemistry; archaeometry.
 - 6000 +F1V** Qualitative analysis in general;
For purity controls of chemicals and reagents see also VG 5100, laboratory guides.
 - 6100 +F1V** Quantitative analysis in general;
See also VG 5100, laboratory guides.
 - 6500 +F1V** Classical methods of general elemental analysis.
 - 6550 +F1V** Gravimetric analysis; general overview of precipitates.
 - 6600 +F1V** Titrimetric analysis; chemical equilibrium/analysis; spectrometric titration; monographs on indicators.
See also VG 8050, conductometric analysis; see also VG 8100, potentiometric analysis; see also VG 7000, radiochemical analysis; see also VG 7100, thermometric analysis.
 - 6620 +F1V** Analytical complex chemistry; complexometric analysis; chelating agents; organic reagents in analytical chemistry; masking in analytical chemistry.
 - 6650 +F1V** Gas analysis; analysis of gases in metals.
See also VG 7400, gas chromatography.
 - 6700 +F1V** Qualitative and quantitative microanalysis.
 - 6800 +F1V** Trace analysis,
(e.g. in metals or in organic material), see also VG 6000, qualitative analysis.
 - 6820 +F1V** Sensor technology
 - 6830 +F1V** Chemical sensor technology;
 - 6840 +F1V** Electrochemical sensor technology;
 - 6850 +F1V** Optical sensors;
 - 6860 +F1V** Biosensors;
 - 6870 +F1V** Physical sensors;
 - 6880 +F1V** Other types of sensors.
 - 6900 +F1V** Microscopic analysis and quantitative stereology; thermomicroscopy.
See also VW 5050, microscopy in pharmaceutical biology.
 - 7000 +F1V** Radiochemical analysis; activation analysis; liquid scintillation measurements; isotope dilution analysis; geological age determinations etc.
See also VE 8300, nuclear chemistry; and VE 8400, isotopes.
 - 7100 +F1V** Calorimetry; thermometric analysis.
Differential thermal analysis cf. VE 6000.

- 7200 +F1V Chromatography in general; extraction analysis.**
Indiv. signum: 7200.0 Advances in Chromatography.
- 7300 +F1V Paper and thin-layer chromatography; HPTLC; HPPLC; ring-oven technique; capillary analysis.**
Indiv. signum: 7300.0 Progress in Thin-layer Chromatography and Related Methods.
- 7400 +F1V Gas chromatography.**
See also VG 6650, gas analysis; and VG 9800, mass spectrometry.
Indiv. signum: 7400.0 Gas Chromatography Abstracts; from 1970 on under the title: Gas und Liquid Chromatography Abstracts.
- 7500 +F1V HPLC**
Column chromatography; liquid chromatography; SFC (supercritical fluid chromatography).
- 7600 +F1V Gel chromatography (gel filtration; exclusion chromatography; gel permeation chromatography); affinity chromatography.**
- 7650 +F1V Ligand-exchange chromatography**
- 7700 +F1V Separation by centrifugation.**
Ultracentrifugation.
- 7800 +F1V Ion-exchange chromatography, also general use of ion-exchange media.**
Indiv. signum: 7800.0 Ion Exchange. A Series of Advances.
- 7850 +F1V Ion-pair chromatography.**
- 8000 +F1V Electroanalysis (electrochemical analysis).**
See also VE 6300, Electrochemistry – Indiv. Signum: 8000.0, electroanalytical chemistry.
- 8050 +F1V Conductometry,**
See also VG 6600, quantitative analysis.
- 8100 +F1V Potentiometry,**
See also VG 6600, quantitative analysis.
- 8130 +F1V Voltametry, voltammetry and polarography.**
- 8160 +F1V Coulometry**
- 8200 +F1V Electrophoresis in general;**
See also VG 7200 ff., chromatography.
- 8250 +F1V Substrate-free electrophoresis,**
Capillary electrophoresis; HPCE; micellar electrokinetic chromatography (MEKC).
- 8300 +F1V Electrophoresis with substrates;**
- 8350 +F1V Paper electrophoresis;**
- 8400 +F1V Gel electrophoresis.**
- 8500 +F1V Polarimetry;**
Optical rotational dispersion (ORD); circular dichroism (CD) and optical activity in general, cf. VE 8700.
- 8600 +F1V Refractometry**
- 8650 +F1V Interferometry**
- 8700 +F1V Spectral analysis; emission spectroscopy; atomic spectra.**
- 8730 +F1V Flame spectrometry; atomic-absorption spectroscopy (atomic-absorption flame spectrometry).**
Indiv. signum: 8730.0 Annual Reports on Analytical Atomic Spectroscopy.
- 8750 +F1V Fluorescence analysis; atomic-fluorescence spectroscopy; luminescence analysis; fluorimetry.**
- 8760 +F1V Phosphorescence spectroscopy (phosphorimetry).**
- 8800 +F1V Colourimetry and photometry (spectrophotometry);**
For colourimetric reagents see also VG 6620.
- 8850 +F1V Laser chemistry, laser spectroscopy.**
- 8900 +F1V Spectroscopic methods in general;**
Combinations of several methods: see also VK 5660 and VH 5660, theory; cf. VE 8600, matrix-isolation spectroscopy; Indiv. signum: 8900.0, Spectroscopic Properties of Inorganic and Organometallic Compounds (Spec. Per. Rep. Chem. Soc. London); 8900.1, Molecular Spectroscopy (Spec. Per. Rep. Chem. Soc. London).
- 8930 +F1V Spectroscopic methods not individually listed: plasma spectroscopy etc.**
- 8950 +F1V Mossbauer spectroscopy.**
- 8970 +F1V X-ray spectroscopy.**
- 9000 +F1V Ultraviolet spectroscopy and VIS spectroscopy**
(spectroscopy in the visible range).
- 9100 +F1V Photoelectron spectroscopy; photoeffect; ultraviolet photoelectron spectroscopy (UPS); Auger spectroscopy.**

- 9200 +F1V Infrared spectroscopy;**
also for infrared theory in general: cf. VE 8600.
- 9300 +F1V Raman spectroscopy; molecular spectra; vibrational spectroscopy;**
infrared and Raman spectroscopy combined.
Theory of molecular vibrations, cf. VE 5740; Indiv. signum: 9300
Vibrational Spectra and Structure. A Series of Advances, Ed. J.P. Durig.
- 9400 +F1V Microwave spectroscopy.**
- 9450 +F1V Reflection spectroscopy.**
- 9500 +F1V NMR spectroscopy; magnetic resonance spectroscopy (NMR and**
ESR combined); NQR spectroscopy 9500.5, NMR Eds. Diehl,
Fluck und Kosfeld 9500.6; NMR Spectrometry Abstracts.
(Nuclear quadrupole resonance).
- 9700 +F1V Electron spin resonance spectroscopy (ESR; EPR = electron**
paramagnetic resonance); electron spectroscopy.
Indiv. signum: 9700.0 Electron Spin Resonance (Spec. Per. Rep. Chem.
Soc. London).
- 9730 +F1V ICR spectroscopy (ion cyclotron resonance spectroscopy).**
- 9800 +F1V Mass spectrometry.**
See also VG 7400, gas chromatography; Indiv. signum: 9800.0 Advances in
Mass Spectrometry; 9800.1 Mass Spectrometry (Spec. Per. Rep. Chem. Soc.
London); 9800.2 Fortschritte der Massenspektrometrie (Progress in Mass
Spectrometry); 9800.3 Mass Spectrometry Reviews.
- 9900 +F1V X-ray structural analysis**
(X-ray diffraction); electron microscopy; diffraction of light; neutron
diffraction; electron diffraction.
- 9900a Organic analysis, e.g. analysis of functional groups etc.: cf. VK 5680.**

VH Inorganic chemistry

- 1000 – 1099 Reference works and tables, specialised dictionaries and handbooks for the entire field of inorganic chemistry.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VH 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VH 1000.
- 2000 – 4990 Complete publications series, multi-volume works and multi-volume handbooks for the entire field of inorganic chemistry.**
(In alphabetical order).
- 5000 – 9759 Inorganic chemistry in general**
- 5000 General overviews**
- 5010 Textbooks on inorganic and general chemistry.**
See also VC 5010, general chemistry, and under the corresponding systematics categories.
- 5020 Compendia, reviews, guides, summaries, lecture notes;**
- 5030 Nomenclature, terminology;**
- 5040 Bibliographies;**
- 5070 Doctoral theses, *Habilitation* theses, reprints;**
- 5074 In-house Masters theses;**
- 5075 In-house dissertations;**
- 5080 Conferences, symposia;**
- 5085 Progress reports.**
- 5100 General guides for teaching laboratories in inorganic chemistry.**
See also VH 5501, preparative inorganic chemistry; VG 5100, analytical chemistry teaching laboratory; VG 5150, analytic methods for particular groups and elements; VG 6001, qualitative analysis; VG 6101, quantitative analysis.
- 5200 Compilations of exercises; “problems and solutions“.**
See also VC 5200, General Chemistry: exercises.
- 5500 +F1V Preparative inorganic chemistry; inorganic synthesis.**
See also VH 8001 ff., Chemistry of specific elements; Indiv. signum: 5500.0, Inorganic Syntheses; 5500.1, preparative inorganic reactions; 5500.2, Annual Reports in Inorganic and General Syntheses.
- 5600 +F1V Photochemistry in the field of inorganic chemistry.**
See also VE 8300, photochemistry, nuclear chemistry.
- 5640 +F1V Working with isotopes in inorganic chemistry.**
See also VE 8300 photochemistry, nuclear chemistry; and VE 8400, isotopes; isotope effects.
- 5660 +F1V Physical-chemical methods in inorganic chemistry.**
For analytical methods, cf. VG 5700 +F1V, theoretical inorganic chemistry. Structure and symmetry principles cf. VH 5800 and VE 5700, theoretical chemistry. Indiv. signum: 5700.0 Electronic Structure and Magnetism of Inorganic Compounds (Spec. Per. Rep. Chem. Soc. London).
- 5800 +F1V Inorganic stereochemistry; symmetry principles; structure principles**
See also VH 5700, theoretical inorganic chemistry; VH 9500, inorganic ring systems; VH 9600, inorganic complexes; VE 7800, complexes; VE 9300 ff., stereochemistry, crystal chemistry.
- 6000 +F1V Reaction mechanisms in inorganic chemistry.**
See also VE 5800, chemical reaction kinetics; Indiv. signum: 6000.0, Inorganic Reaction Mechanisms (Spec. Per. Rep. Chem. Soc. London); 6000.1, Inorganic Reactions and Methods. Ed. J.J. Zuckerman.
- 7900 +F1V Specific inorganic chemistry; inorganic chemistry of various elements, e.g. transition metals; Indiv. signum: 7900.0, Transition Metal Chemistry A Series of Advances; 7900.1; Inorganic Chemistry of the Transition Elements, 7900.2 Inorganic Chemistry of the Main-group Elements (Spec. Per. Rep. Chem. Soc. London).**
- 8000 Chemistry of individual elements.**
Metal-organic compounds cf. VH 9700; element-organic compounds (apart from metal-organic compounds) cf. VK 7700 ff.; analytical methods cf. VG 5100 ff. Indiv. signum: 8010.0 Fluorine Chemistry Reviews; 8010.1 Advances in Fluorine Chemistry 8015.0 Topics in Sulfur Chemistry; 8020.0, Chemistry and Physics of Carbon; 8022.0, Topics in Phosphorus Chemistry.

8000.0	<i>Inert gases</i>
8001	He Helium
8002	Ne Neon
8003	Ar Argon
8004	Kr Krypton
8005	Xe Xenon
8006	Ra Radon
8007	H Hydrogen
8008	O Oxygen
8009	N Nitrogen
8009.0	<i>Halogens</i>
8010	F Fluorine
8011	Cl Chlorine
8012	Br Bromine
8013	I Iodine
8014	At Astatine
8015	S Sulphur
8016	Se Selenium
8017	Te Tellurium
8018	Po Polonium
8019	B Boron
8020	C Carbon
8021	Si Silicon
8022	P Phosphorus
8023	As Arsenic
8024	Sb Antimony
8025	Bi Bismuth
8026.0	<i>Alkalis</i>
8026	Li Lithium
8027	Na Sodium
8028	K Potassium
8029	NH ₄ Ammonium
8030	Rb Rubidium
8031	Cs Caesium
8032	Fr Francium
8032.0	<i>Alkaline Earths</i>
8033	Be Beryllium
8034	Mg Magnesium
8035	Ca Calcium
8036	Sr Strontium
8037	Ba Barium
8038	Ra Radium
8039	Zn Zinc
8040	Cd Cadmium
8041	Hg Mercury
8042	Al Aluminium
8043	Ga Gallium
8044	In Indium
8045	Tl Thallium
8045.0	<i>Rare Earths</i>
8046	Sc Scandium
8047	Y Yttrium
8048	La Lanthanum <i>and Lanthanides</i>
8049	Ce Cerium
8050	Pr Praseodymium
8051	Nd Neodymium
8052	Pm Promethium
8053	Sm Samarium
8054	Eu Europium
8055	Gd Gadolinium
8056	Tb Terbium
8057	Dy Dysprosium
8058	Ho Holmium

- 8059 Er Erbium
8060 Tm Thulium
8061 Yb Ytterbium
8062 Lu Lutetium
8062.0 *Actinides*
8063 Ac Actinium
8064 Ti Titanium
8065 Zr Zirconium
8066 Hf Hafnium
8067 Th Thorium
8068 Ge Germanium
8069 Sn Tin
8070 Pb Lead
8071 V Vanadium
8072 Nb Niobium
8073 Ta Tantalum
8074 Pa Protactinium
8075 Cr Chromium
8076 Mo Molybdenum
8077 W Tungsten
8078 U Uranium
8079 Mn Manganese
8080 Ni Nickel
8081 Co Cobalt
8082 Fe Iron
8083 Cu Copper
8084 Ag Silver
8085 Au Gold
8085.0 *Platinum Metals*
8086 Ru Ruthenium
8087 Rh Rhodium
8088 Pd Palladium
8089 Os Osmium
8090 Ir Iridium
8091 Pt Platinum
8092 Tc Technetium
8093 Re Rhenium
8093.0 *Transuranic Elements*
8094 Np Neptunium
8095 Pu Plutonium
8096 Am Americium
8097 Cm Curium
8098 Bk Berkelium
8099 Cf Californium
8100 Es Einsteinium
8101 Fm Fermium
8102 Mv Mendelevium
- 9500 +F1V Inorganic ring systems and inorganic polymers; inorganic fibres.
9600 +F1V Inorganic complexes (coordination compounds); metal clusters; metal-metal bonding.
See also VH 5800, inorganic stereochemistry; see also VE 7800, complexes.
- 9700 +F1V Metal-organic compounds; metal-chelate synthesis of the metal-organic compounds; see also VK 5500, element-organic compounds
(excluding metals) cf. VK 7700 ff. Indiv. signum: 9700.0, Advances in Organometallic Chemistry; 9700.1, Organometallic Compounds of the Group IV Elements; 9700.2, Organometallic Chemistry (Spec. Per. Rep. Chem. Soc. London); 9700.3, Journal of Organometallic Chemistry. Library; 9700.4, Comprehensive Metal-organic Chemistry; 9700.5, Advances in Metal-organic Chemistry.
- 9750 +F1V Bio-inorganic chemistry;
Indiv. signum: 9750.0 Metal Ions in Biological Systems, Ed. H. Sigel.

VK Organic chemistry

- 1000 - 1099 Reference works and tables, specialised dictionaries and handbooks for the entire field of organic chemistry.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VK 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VK 1000.
- 2000 - 4990 Complete publications series, multi-volume works and multi-volume handbooks for the entire field of organic chemistry.**
(In alphabetical order).
- 5000 - 8809 Organic chemistry in general.**
Preparative methods, reactions etc.; specific compounds and classes of compounds are not found in the systematics for preparative chemistry, reaction mechanisms etc., as a rule, but rather under 7000 ff and 8500 ff. In case of doubt, one should look under both of these relevant systematics categories.
- 5000 General overviews**
- 5010 Textbooks;**
See also VC 5010, General chemistry, and under the corresponding systematics categories.
- 5020 Compendia, reviews, guides, summaries, lecture notes;**
- 5030 Nomenclature, terminology;**
- 5040 Bibliographies;**
- 5070 Doctoral theses, *Habilitation* theses, reprints;**
- 5075 In-house dissertations;**
- 5080 Conferences, symposia;**
- 5085 Progress reports;**
- 5100 General guides for teaching laboratories in organic chemistry; organic chemistry in general.**
See also VK 5501, preparative organic chemistry; VK 5681, organic analysis; VK 5660, experimental techniques in organic chemistry.
- 5200 Compilations of exercises; “problems and solutions”; see also exercises.**
- 5500 +F1V Preparative organic chemistry; organic synthesis.**
See also VK 5100, organic chemistry teaching laboratories, and VK 6000, reaction mechanisms. Monographs on particular types of reactions cf. VK 6000. Indiv. signum: 5500.0, Neuere Methoden der Präparativen Organischen Chemistry; 5500.1, Organic Syntheses. Ann. Publ.; 5500.2, Organic Syntheses. Coll. Vols.; 5500.3, Synthetic Methods of Organic Chemistry. Synthetische Methoden der Organischen Chemistry; 5500.4, Macromolecular Syntheses; 5500.6, Kinetics and Mechanisms of Polymerization; 5500.7, Annual Reports in Organic Synthesis, Eds. J. McMurry and R.B. Miller; 5500.8, General and Synthetic Methods (Spec. Per. Rep. Chem. Soc. London); 5500.9, Organic Synthesis. Theory and Applications.
- 5550 - 5589 Catalysis in organic chemistry.**
- 5550 +F1V Formal key to the systematics in the field of chemistry.**
- 5560 +F1V Homogeneous metal catalysis;**
- 5570 +F1V Heterogeneous catalysis;**
- 5580 +F1V Organo-catalysis, enzymatic catalysis.**
- 5600 +F1V Photochemistry of organic compounds; nuclear radiations from organic compounds.**
See also VE 8300, photochemistry; nuclear chemistry. Indiv. signum: 5600.0, Advances in Photochemistry; 5600.1, Annual Review of Photochemistry.
- 5640 +F1V Working with isotopes in organic chemistry.**
See also VE 8300, photochemistry; nuclear chemistry, see also VE 8400, isotopes; isotope effects; spectroscopy of tagged compounds, cf. VG 8900 ff.
- 5660 +F1V Physical-chemical methods in organic chemistry,**
Experimental techniques in organic chemistry; purification methods for organic compounds; structure investigations; organic electrochemistry. Specific analytical methods cf. VG; see also VK 5680, organic analysis. Theoretical discussions, see also VE, physical and theoretical chemistry. Indiv. signum: 5660.0, Progress in Electrochemistry of Organic Compounds.

- 5680 +F1V Organic analysis**
(identification of functional groups etc.); organic elemental analysis, see also VG 6000 ff., analytical chemistry; see also VK 5660, experimental techniques in organic chemistry; see also VK 5100, organic chemistry teaching laboratories.
Indiv. signum: 5680.0, Organic Analysis.
- 5700 +F1V Theoretical organic chemistry.**
See also VK 5600, photochemistry; see also VK 5800, organic stereochemistry; see also VK 6000, organic reaction mechanisms; see also VE 5600 ff., theoretical chemistry.
- 5800 +F1V Organic stereochemistry; organic complexes.**
See also VK 5700, theoretical organic chemistry; see also VH 5800, inorganic stereochemistry; see also VE 9300 ff., stereochemistry; crystal chemistry. Indiv. signum: 5800.0, Progress in Stereochemistry; 5800.1, Topics in Stereochemistry.
- 6000 +F1V Reaction mechanisms in organic chemistry; reactive intermediates; radicals. Monographs on individual types of reactions.**
See also VK 5500, preparative organic chemistry; see also VK 5700, theoretical organic chemistry; see also VE 5800, reaction kinetics. Indiv. signum: 6000.0, Friedel-Crafts and Related Reactions; 6000.1, Organic Reaction Mechanisms; 6000.2, Organic Reactions; 6000.3, Advances in Oxygenated Processes.
- 7000 +F1V Monographs on specific compounds and classes of compounds, excepting natural products and insofar as they belong to no individual systematics category.**
Indiv. signum: 7000.0, Advances in Alicyclic Chemistry; 7000.1, Advances in Alicyclic Chemistry. Suppl.; 7000.2, Aromatic and Heteroaromatic Chemistry (Spec. Per. Rep. Chem. Soc. London); 7000.3, Aliphatic Chemistry; 7000.4, Alicyclic Chemistry; 7000.5, Saturated Heterocyclic Chemistry.
- 7100 +F1V General hydrocarbon chemistry; aliphatic and alicyclic compounds.**
- 7150 +F1V Supramolecular structures.**
Macrocyclic compounds; cage structures; crown ethers, cyclophanes, metacyclophanes (calixarenes), clathrates, macrolides, fullerenes; see also VK 8500 ff., bio-organic chemistry and particular natural products; see also VS 8700, antibiotics; see also VE 7100, membranes; see also VE 7800, complexes, inclusion and addition compounds.
- 7200 +F1V Heterocyclic compounds.**
See also VK 7400, organo-nitrogen compounds; crown ethers cf. VK 7150.
Indiv. signum: 7200.0, Advances in Heterocyclic Chemistry; 7200.1, Chemistry of Heterocyclic Compounds, Ed. A. Weissberger; 7200.2, Physical Methods of Heterocyclic Chemistry, Ed. A.R. Katritzky; 7200.3, Heterocyclic Compounds, Ed. R.C. Elderfield; 7200.4, Heterocyclic Chemistry (Spec. Per. Rep. Chem. Soc. London); 7200.5, Comprehensive Heterocyclic Chemistry, Ed. A.R. Katritzky; 7200.6, Progress in Heterocyclic Chemistry.
- 7300 +F1V Carbonyl and carboxyl compounds,**
organic oxonium salts, quinones.
- 7400 +F1V Organo-nitrogen compounds,**
thiocyanates, see also VK 8560; proteins, see also VK 7200, heterocyclic compounds.
- 7700 Element-organic compounds;**
Metal-organic compounds cf. VH 9700; organo-nitrogen compounds cf. VK 7400; Chemistry of individual elements cf. VH 8000 ff. Indiv. signum: 7700.0, Organic Compounds of Sulphur, Selenium and Tellurium (Spec. Per. Rep. Chem. Soc. London); 7710.0, Fluorocarbon and Related Chemistry (Spec. Per. Rep. Chem. Soc. London); 7715.0, Organic Chemistry of Bivalent Sulphur; 7722.0, Organic Phosphorus Compounds; 7722.1, Organophosphorus Chemistry (Spec. Per. Rep. Chem. Soc. London).
- 7700.0 Inert Gases**
- | | |
|--------|------------|
| 7701 | He Helium |
| 7702 | Ne Neon |
| 7703 | Ar Argon |
| 7704 | Kr Krypton |
| 7705 | Xe Xenon |
| 7706 | Ra Radon |
| 7707 H | Hydrogen |
| 7708 O | Oxygen |
| 7709 | N Nitrogen |

7709.0	<i>Halogens</i>
7710	F Fluorine
7711	Cl Chlorine
7712	Br Bromine
7713	I Iodine
7714	At Astatine
7715 S	S Sulphur
7716	Se Selenium
7717	Te Tellurium
7718	Po Polonium
7719	B Boron
7720	C Carbon
7721	Si Silicon
7722	P Phosphorus
7723	As Arsenic
7724	Sb Antimony
7725	Bi Bismuth
7726.0	<i>Alkalis</i>
7726	Li Lithium
7727	Na Sodium
7728	K Potassium
7729	NH ₄ Ammonium
7730	Rb Rubidium
7731	Cs Caesium
7732	Fr Francium
7732.0	<i>Alkaline Earths</i>
7733	Be Beryllium
7734	Mg Magnesium
7735	Ca Calcium
7736	Sr Strontium
7737	Ba Barium
7738	Ra Radium
7739	Zn Zinc
7740	Cd Cadmium
7741	Hg Mercury
7742	Al Aluminium
7743	Ga Gallium
7744	In Indium
7745	Tl Thallium
7745.0	<i>Rare Earths</i>
7746	Sc Scandium
7747	Y Yttrium
7748	La Lanthanum <i>and Lanthanides</i>
7749	Ce Cerium
7750	Pr Praseodymium
7751	Nd Neodymium
7752	Pm Promethium
7753	Sm Samarium
7754	Eu Europium
7755	Gd Gadolinium
7756	Tb Terbium
7757	Dy Dysprosium
7758	Ho Holmium
7759	Er Erbium
7760	Tm Thulium
7761	Yb Ytterbium
7762	Lu Lutetium
7762.0	<i>Actinides</i>
7763	Ac Actinium
7764	Ti Titanium
7765	Zr Zirconium
7766	Hf Hafnium
7767	Th Thorium

7768	Ge Germanium
7769	Sn Tin
7770	Pb Lead
7771	V Vanadium
7772	Nb Niobium
7773	Ta Tantalum
7774	Pa Protactinium
7775	Cr Chromium
7776	Mo Molybdenum
7777	W Wolfram
7778	U Uranium
7779	Mn Manganese
7780	Ni Nickel
7781	Co Cobalt
7782	Fe Iron
7783	Cu Copper
7784	Ag Silver
7785	Au Gold
7785.0	<i>Platinum metals</i>
7786	Ru Ruthenium
7787	Rh Rhodium
7788	Pd Palladium
7789	Os Osmium
7790	Ir Iridium
7791	Pt Platinum
7792	Tc Technetium
7793	Re Rhenium
7793.0	<i>Transuranic elements</i>
7794	Np Neptunium
7795	Pu Plutonium
7796	Am Americium
7797	Cm Curium
7798	Bk Berkelium
7799	Cf Californium
7800	Es Einsteinium
7801	Fm Fermium
7802	Mv Mendeleevium

7900 +F1V Tensides; cleansing agents.

See also VE 7000 ff., interface chemistry.

8000 +F1V Polymers;

Liquid-crystal polymers, see also VE 8000; physical chemistry of colloids and macromolecular technology of polymers, cf. VN 5900 ff.

Indiv. signum: 8000.0 Reviews in Macromolecular Chemistry.

8200 +F1V Pigments and dyes;

Functionalised pigments, see also VN 5800, dyestuff industry, colouration, dyeing.

8250 +F1V Light-sensitive compounds; luminescent substances.

Optoelectronic materials cf. VE 9580; photochromic compounds cf. VE 9580.

8500 +F1V Natural products in general;

Bio-organic chemistry; secondary metabolites; 8500.2, Bioorganic Chemistry Frontiers see also WD 5000 ff. (secondary metabolites); structure-activity relations of biologically active compounds; molecular recognition; see also VW 5300 P, material components of plants. Indiv. signum: 8500.0, Fortschritte der Chemie organischer Naturstoffe; 8500.1, Aliphatic and Related Natural Product Chemistry (Spec. Per. Rep. Chem. Soc. London).

8520 +F1V Lipids.

Indiv. signum: 8520.0, Progress in the Chemistry of Fats and other Lipids; 8520.1, Advances in Lipid Research.

8530 +F1V Etheric oils; odorants, perfumes, aromas.

See also VN 8100 and VN 8300.

8540 +F1V Steroids.

See also VK 8670, hormones.

8550 +F1V Terpenes, terpenoids, flavonoids and other natural pigments.

Indiv. signum: 8550.0 Terpenoids and Steroids (Spec. Per. Rep. Chem. Soc. London).

- 8560 +F1V Proteins; amino-acids; amines.**
See also VK 7400, organo-nitrogen compounds. Indiv. signum: 8560.0, Advances in Protein Chemistry; 8560.1, Amino-acids, Peptides and Proteins (Spec. Per. Rep. Chem. Soc. London).
- 8570 +F1V Nucleic acids, nucleosides, nucleotides.**
- 8580 +F1V Carbohydrates.**
Indiv. signum: 8580.0, Advances in Carbohydrate Chemistry; 8580.1, Methods in Carbohydrate Chemistry 8580.2 Carbohydrate Chemistry (Spec. Per. Rep. Chem. Soc. London).
- 8600 +F1V Glucosides**
- 8620 +F1V Alkaloids, purines.**
Indiv. signum: 8620.0 The Alkaloids 8620.1 The Alkaloids (Spec. Per. Rep. Chem. Soc. London).
- 8640 +F1V Organic tanning agents,**
tannines.
- 8660 +F1V Vitamins.**
Indiv. signum: 8660.0 The Vitamins.
- 8670 +F1V Hormones; prostaglandines.**
See also VS 7400-7900; see also VK 8540, steroid tissue hormones cf. VS 7900.
- 8700 +F1V Enzymes.**
See also biotechnology, VN 8900 ff.
Indiv. signum: 8700.0, Methods in Enzymology; 8700.1, Index: Methods in Enzymology.
- 8800 +F1V Other natural products.**

VN Applied and technical chemistry

- 1000 – 1099 Reference works and tables, specialised dictionaries and handbooks for the entire field of applied and technical chemistry.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VN 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VN 1000.
- 2000 - 4990 Complete publications series;**
Multi-volume works and multi-volume handbooks for the entire field of applied and technical chemistry. (In alphabetical order).
- 5000 - 6109 Applied and technical chemistry in general**
- 5000 General overviews**
 - 5010 Textbooks;**
See also VC 5010, general chemistry, and under the corresponding systematics categories.
 - 5020 Compendia, reviews, guides, summaries, lecture notes;**
 - 5030 Nomenclature, terminology;**
 - 5040 Bibliographies;**
 - 5070 Doctoral theses, *Habilitation* theses, reprints;**
 - 5075 In-house dissertations;**
 - 5080 Conferences, symposia;**
 - 5085 Progress reports;**
 - 5100 Practical technical chemistry in general; guides to teaching laboratories.**
 - 5200 Compilations of exercises; computational problems in technical chemistry.**
- 5400 - 5879 Technical organic chemistry.**
- 5400 +F1V Organic synthesis on an industrial scale; technical organic chemistry in general.**
 - 5420 +F1V Natural products processing;**
Fats, oils, waxes etc.; see also VK 8500, natural products.
 - 5430 +F1V Coal chemistry**
 - 5450 +F1V Petroleum chemistry and petrochemicals industry; natural gas, liquefied gas.**
See also QR 534, petroleum industry.
 - 5470 +F1V Fuels**
 - 5480 +F1V Explosives**
 - 5490 +F1V Wood chemistry.**
See also ZS 5000, wood and cellulose industry.
 - 5500 +F1V Paper: manufacture and analysis.**
See also ZS 5500, paper industry.
 - 5510 +F1V Cellulose, wood pulp; recycled paper; pasteboard.**
 - 5510a Surface-active materials: tensides, detergents, cleaning agents etc.**
See also VE 7060 ff and VK 7900.
 - 5550 +F1V Glues; adhesives; adhesive compounds; adhesion.**
 - 5750 +F1V Pigment technology; paints; enamels; coatings.**
Indiv. signum: 5750.0 Progress in Organic Coatings.
 - 5800 +F1V Pigment industry; technology of pigments and dyes; dyeing and colouration.**
Food colourings cf. VN 8100; see also VK 8200, organic chemistry: pigments and dyes.
 - 5830 +F1V Tanning-agent industry, tanning.**
See also VK 8640, tanning agents.
 - 5850 +F1V Photography (chemical aspects); reproduction technology; reprography.**
 - 5870 +F1V Construction chemistry.**
- 5900 +F1V Technology of polymers (chemical fibres, plastics); macromolecular products; textile chemistry.**
See also VE 8000, physical chemistry of colloids and macromolecules; see also VK 8000, organic chemistry: polymers; see also ZM 5000 ff.
- 5920 +F1V Plastics manufacture**
 - 5940 +F1V Plastics processing**
 - 5970 +F1V Plastics industry.**
See also QR 525.
 - 5980 +F1V Plastics analysis**
- 6000 +F1V Technical inorganic chemistry**
- 6010 +F1V Inorganic synthesis on an industrial scale.**
e.g. ammonia synthesis, fertiliser production cf. VN 6100.

- 6020 +F1V Inorganic materials**
See also VE 9650, metallurgy; see also VE 9670, materials science.
- 6020a Inorganic polymers cf. VN 5900 ff. and VH 9500.**
- 6030 +F1V Corrosion**
- 6040 +F1V Galvanic technology; electrophoretic painting (electro-deposition).**
See also VE 6300, electrochemistry; ZM 7625 ; ZN 7625.
- 6050 +F1V Fuel cells; fuels; batteries; applied electrochemistry; solar cells; hydrogen as an energy carrier.**
See also VE 6300, electrochemistry; see also VE 6350, electrolytes; see also VG 8000, electroanalysis; see also ZP 4120.
- 6060 +F1V Mineralogical technology; flotation; molecular sieves; capillary chemistry.**
See also VE 9300 ff. solid-state chemistry; crystal chemistry; mineralogy; zeolites, cf. VE 9600.
- 6080 +F1V Nuclear technology; nuclear chemistry.**
See also VE 8300, photochemistry; nuclear chemistry; see also VE 8400, isotopes; isotope effects.
- 6100 +F1V Fertilisers; plant hormones (plant-growth agents); growth regulators.**
- 7000 – 7359 Chemical process technology**
- 7000 +F1V Chemical process technology in general.**
Chemical sensors; large-scale processes; control technology; cybernetic methods in chemical technology; automatic control systems for production processes; see also VC 6450.
- 7030 +F1V Mathematical fundamentals of chemical process technology; computational methods.**
See also VC 6320 ff.
- 7040 +F1V Pyrolysis**
- 7050 +F1V Physical-chemical fundamentals of chemical process technology.**
- 7100 +F1V Basic operations chemical process technology (unit operations).**
- 7120 +F1V Separation methods in general (materials separation).**
- 7130 +F1V Purification methods (materials purification).**
- 7150 +F1V Mechanical process technology (mechanical processes in general).**
- 7160 +F1V Mixing; stirring; agglomeration etc.**
- 7170 +F1V Comminution; pulverisation; atomisation; particle measurement technology; particle-size analysis.**
- 7180 +F1V Mechanical separation methods,**
sieving, air classification, classification, sedimentation, elutriation, centrifugation, flotation cf. VN 6060.
- 7190 +F1V Filtration**
- 7200 +F1V Thermal separation methods in general.**
- 7220 +F1V Distillation**
- 7230 +F1V Extraction**
- 7240 +F1V Drying; freeze drying; refrigeration technology.**
- 7260 +F1V Other processes:**
Evaporation, crystallisation, absorption, adsorption, desorption, sublimation, sintering.
- 7280 +F1V Bio-process technology; biosensors.**
See also VN 8900 ff. biotechnology.
- 7300 +F1V Reaction technology.**
Process optimisation cf. VC 6450.
- 7320 +F1V Apparatus design and construction; chemical reactors; chemical plants.**
- 7330 +F1V Measurement and control technology.**
- 7340 +F1V Catalysis in chemical process technology.**
See also VE 7040, catalysis.
- 7350 +F1V Reaction kinetics, reaction times.**
See also VE 5800.
- 7500 +F1V Analytical methods in technology.**
See also VG, analytical chemistry; plastics analysis, cf. VN 5980.
- 7550 +F1V Metals analysis**
- 8000 +F1V Food chemistry, nutritional science and food technology in general.**
See also VT 5250, nutritional science.
Indiv. signum: 8000.0, Handbuch der Lebensmittel Chemie; 8000.1, Advances in Food Research.
- 8100 +F1V Foodstuffs; preservation and preservatives; food microbiology; food additives; food colourings.**
Specific foodstuffs: fats, proteins, carbohydrates cf. VK 8500 ff; aromas cf. VK 8530; dietetic foods cf. VS 9650.

- 8150 +F1V Drinking water; medicinal springs.**
Water analysis and water processing in general, cf. VN 9360.
- 8200 +F1V Stimulants, drinks and tobacco.**
Wine, beer, coffee, spices etc.; spices see also VW 5900 ff., spice plants.
- 8300 +F1V Daily needs, cosmetics.**
Indiv. signum: 8300.0 Kosmetik-Jahrbuch.
- 8400 +F1V Food analysis and food assessment; identification of additives (contaminants).**
- 8500 +F1V Food laws.**
See also VB 4130, PN 426.
- 8600 +F1V Packaging of foods and packaging materials.**
- 8700 +F1V Pesticides, herbicides, insecticides,**
Pesticides, fungicides, herbicides, disinfection agents; see also VS 8450, antiseptics, antimycotics, skin disinfection agents.
- 8800 +F1V Forensic chemistry.**
See also VT 5300, toxicological analysis.
- 8900 +F1V Biotechnology; industrial microbiology.**
See also VK 8700, enzymes; biological process technology cf. VN 7280.
Indiv. Signum: 8900.0, Jahrbuch der Biotechnologie.
- 8930 +F1V Analytical biotechnology; process analysis.**
- 8950 +F1V Biotechnological synthesis.**
See also VN 8200 beer; wine; see also VK 5500, organic synthesis.
- 8980 +F1V Genetic engineering.**
- 9200 +F1V Ecological chemistry (environmental chemistry).**
Indiv. signum: 9200.0 Environmental Chemistry (Spec. Per. Rep. Chem. Soc. London).
- 9250 +F1V Chemical aspects of environmental stress and environmental protection; radioactive waste; chemical industry and environmental safety of chemical plants and nuclear power plants.**
- 9280 +F1V Environmental chemicals and pollutants; environmental toxicology.**
- 9300 +F1V Environmental analysis techniques; measurement technology; surveillance technology.**
- 9330 +F1V Purification and chemical cleaning methods in environmental protection, general.**
- 9350 +F1V Ecological chemistry of the atmosphere,**
air pollution; air purification.
- 9360 +F1V Ecological chemistry of water supplies,**
water pollution; water analysis; waters pollution control and purification; water treatment; desalination; see also VN 8150, drinking water.
- 9380 +F1V Ecological chemistry of the soil,**
soil chemistry; soil pollution; soil analysis; soil purification.
- 9400 +F1V Waste treatment.**
Refuse disposal; waste dumps.
- 9450 +F1V Recycling**
- 9500 +F1V Alternative materials in general; renewable resources.**
Particular materials: see under the corresponding systematics categories.
- 9800 +F1V Chemistry in everyday life.**
See also VN 8000 ff.

VR Pharmacy and pharmacology (general)

- 1000 - 1099 Reference works and tables, specialised dictionaries and handbooks for the entire field of pharmacy and pharmacology.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VR 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VR 1000.
- 2000 Official pharmacopoeias and their commentaries and supplements for Germany;**
the edition date is added to the symbol, e.g. DAB 10 = 2010.
- 2050 International pharmacopoeias;**
(the release date denotes the edition).
- 2100 Pharmacopoeias from other countries;**
(CSN of the country in the notation of the SWD, and the version number denotes the edition).
- 2400 Bibliographies**
- 2500 Pharmaceutical law; pharmacy law; narcotic drugs law; general overview of commerce in drugs and toxic substances.**
See also VT 5300, toxicology.
- 2520 Guidelines for the pharmaceutical examination; drug certification.**
- 2650 Education, licensing of pharmacists; occupational profile of pharmacists.**
- 3000 - 3099 Conferences, symposia.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VR 3000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VR 3000.
- 3100 - 4990 Complete publications series, progress reports and yearbooks for pharmacy and pharmacology.**
(In alphabetical order).
- 5000 General overviews of pharmacy and pharmacology**
- 5010 Textbooks;**
- 5020 Reviews, compendia etc.;**
- 5030 Pharmaceutical and medical terminology;**
- 5100 General pharmaceutical teaching laboratories**
(for pharmaceutical technicians, etc.)
- 5200 Compilations of exercises; computations.**
See also VC 6050, statistics and data processing in chemistry and pharmacy.
- 5800 - 9509 Organisational considerations and best practice for pharmacies.**
- 5800 +F1V General overviews;**
home medication; advisory books for pharmacies.
- 5900 +F1V The pharmacy; equipping a pharmacy, etc.,**
managerial economics for pharmacists.
- 6000 +F1V Formularies, prescriptions; prescription of drugs.**
- 6500 +F1V Advance preparation of prescription drugs.**
- 6600 +F1V Price schedules for pharmaceuticals.**
- 7000 +F1V Storage of pharmaceuticals;**
long-term stability of pharmaceuticals cf. VX 5600.
- 7500 +F1V Lists of certified pharmaceuticals (“red list” for Germany, etc.); over-the-counter drugs; prescription drugs.**
- 7600 +F1V Dosage tables.**
- 9000 +F1V Other topics on best practice for pharmacies.**
- 9500 +F1V Pharmaceuticals catalogues from previous centuries; nostrums.**

VS **Pharmaceutical chemistry and molecular pharmacology**

- 1000 - 1099 Reference works and tables, specialised dictionaries and handbooks for pharmaceutical chemistry and molecular pharmacology.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VS 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VS 1000.
- 2000 - 4990 Complete publications series; multi-volume works and multi-volume handbooks for pharmaceutical chemistry and molecular pharmacology.**
(In alphabetical order).
- 5000 - 5909 Pharmaceutical chemistry and molecular pharmacology in general:**
- 5000 General overviews;**
 - 5010 Textbooks;**
 - 5020 Reviews, compendia, lecture notes etc.;**
 - 5075 In-house dissertations;**
 - 5100 Pharmaceutical chemistry teaching laboratories.**
 - 5300 +F1V Analytical chemistry of particular groups of pharmaceuticals, including valuation; pharmaceutical analysis.**
Indiv. signum: 5300.0 Jahrbuch Pharmedia.
 - 5350 +F1V Synthesis of pharmaceuticals; design and development of pharmaceuticals; structure-activity relations.**
See also VC 6250, drug design.
 - 5360 +F1V Drug safety; clinical drugs testing.**
See also VX 5500, quality controls; drug safety in the pharmacy.
 - 5380 +F1V Pharmacogenetics.**
 - 5400 +F1V Clinical chemistry; urine examination (urine analysis); molecular pharmacology; pathobiochemistry.**
Indiv. signum: 5400.0 Progress in Drug Metabolism.
 - 5410 +F1V Laboratory courses in biopharmacy, clinical chemistry, molecular pharmacology.**
See also VX 8500, biopharmacy.
 - 5450 +F1V Biotransformation (metabolism of foreign substances); Xenobiotics; Pro-pharmaceuticals (Pro-drugs).**
See also VX 8550, pharmacokinetics.
 - 5700 +F1V Side effects of drugs; teratogenic drugs.**
For drug toxicology, see also VT 5300. Indiv. signum: 5710, Side Effects of Drugs; 5711, Side Effects of Drugs. Annual.
 - 5800 +F1V Interactions of drugs.**
 - 5900 +F1V Pharmacodynamics of drug receptors, chronopharmacology.**
- 7000 - 9409 Specific groups of drugs and active pharmaceutical substances.**
- 7000 +F1V Comprehensive literature.**
For compilations of pharmaceutical agents cf. VR 7500.
 - 7100 +F1V Central nervous system: drugs and active agents, anaesthetics; sleep-inducing drugs (hypnotics); analgesics; antiepileptics; narcotics, etc.**
 - 7150 +F1V Psychopharmaceuticals.**
 - 7200 +F1V Drug misuse and addiction.**
Narcotic plants and their narcotic drug products, cf. VW 5950.
 - 7300 +F1V Peripheral nervous system: pharmaceuticals and active agents.**
Local anaesthetics, muscle relaxants, parasympatholytics, etc.
 - 7350 +F1V Sensory organs: pharmaceuticals and active agents.**
Eye medications (ophthalmics), see also VX 8400; ear medications, dermatics, skin care agents, sunscreen agents, etc.
 - 7380 +F1V Diseases of the respiratory system: pharmaceuticals.**
Cough medicines (antitussives), antiasthmatics, etc.
 - 7400 +F1V Pituitary-diencephalon system (hypothalamus-pituitary system): active agents.**
See also VK 8670, hormones.
 - 7500 +F1V Thyroid and parathyroid: pharmaceuticals and active agents.**
Thyreo-calcitonin etc. see also VK 8670, hormones.
 - 7600 +F1V Pancreas: pharmaceuticals and active agents.**
Antidiabetic agent insulin; glucagon etc.: see also VK 8670, hormones.

- 7700 +F1V Adrenal insufficiency: pharmaceuticals and active agents.**
Cortisone: see also VK 8670, hormones.
- 7800 +F1V Gonads: pharmaceuticals and active agents.**
Estrogens; progestogens; androgens; contraceptives: see also VK 8620; alkaloids: see also VK 8540; steroids: see also VK 8670, hormones.
- 7900 +F1V Allergies and tissue hormones: pharmaceuticals and active agents.**
Histamines; antihistamines (histamine antagonists); serotonin and serotonin antagonists antiallergenics etc. see also VK 8670, hormones.
- 8000 +F1V Blood: pharmaceuticals and active agents.**
Blood plasma; blood serum; blood clotting; anticlotting agents; blood preservation; plasma substitutes (plasma expanders); lipid reducers.
- 8100 +F1V Cardiovascular system (heart and circulatory system): pharmaceuticals and active agents.**
Cardiac medicines; circulatory-system medicines; antihypertensives; antihypotonics; antiarrhythmics; heart glycosides: see also VK 8600, glycosides.
- 8200 +F1V Gastrointestinal tract; liver: pharmaceuticals and active agents.**
Gastrointestinal medicines; liver therapeutic medicines; liver protective agents; laxatives, constipation medicines; cholagogues.
- 8300 +F1V Kidneys and urinary tract: pharmaceuticals and active agents,**
diuretics; antidiuretics.
- 8400 +F1V Contrast agents (X-ray contrast agents).**
- 8450 +F1V Antiseptics; antimicrobials; skin disinfectants.**
See also VN 8700, disinfectants and pest-control agents.
- 8500 +F1V Chemotherapy and chemotherapeutic agents;**
antituberculosis medicines (tuberculostatics); antimalarials; anthelmintics, etc. See also VS 8700, antibiotics; chemotherapy of tumours: cf. VS 9100; Indiv. signum 8500.0, Antibiotics and Chemotherapy. Chemotherapy: see also XI 3100 ff.
- 8600 +F1V Sulfonamides**
- 8620 +F1V Specific sulfonamides.**
- 8700 +F1V Antibiotics**
Indiv. signum: 8700.0 Handbook of Antibiotic Compounds.
- 8720 +F1V Specific antibiotics.**
(Cutting according to the name of the antibiotic)
- 8750 +F1V Virucides (antiviral agents).**
- 8760 +F1V Inflammation inhibitors (antiphlogistics); antipyretics.**
Cortisone cf. VS 7700; antihistamines cf. VS 7900.
- 8780 +F1V Antirheumatics.**
Cortisone cf. VS 7700.
- 9000 +F1V Vaccines; antisera (immunoserums).**
- 9100 +F1V Tumours: pharmaceuticals and active agents.**
Cytostatics; alkylating agents (alkylation substances); mitosis toxins (mitosis inhibitors); antimetabolites; chemotherapy agents; antibiotics etc.
- 9200 +F1V Immunopharmacology; immunopharmacological drugs; immunosuppressants; immune stimulants.**
- 9300 +F1V Photochemotherapy**
- 9400 +F1V Drugs which cannot be assigned to any single group:**
Radiopharmacology: see also VS 9100, therapy of tumours; antimetabolites, see also VS 9100, therapy of tumours; vascular agents etc.
- 9450 +F1V Phytotherapy and phytopharmaceuticals.**
See also VW 5300, phytochemistry; see also VW 5500 ff., medicinal plants; see also VW 6200 ff., folk medicines and homeopathic medicines.
- 9500 +F1V Veterinary medicines.**
- 9600 +F1V Nursing-care products.**
- 9650 +F1V Infant nutrition; dietetic foods.**
See also VN 8000 ff., food chemistry; see also VT 5250, nutritional science.
- 9900 +F1V Other “pharmaceutical products“:**
Folk medicines, natural medicines, home remedies, cf. VW 6200 ff.; homeopathic medicines cf. VW 8000 ff.

VT Pharmacology and toxicology

- 1000 - 1099 Reference works and tables, specialised dictionaries and handbooks for pharmacology and toxicology.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VT 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VT 1000.
- 2000 - 4990 Complete publications series, progress reports and yearbooks for pharmacology and toxicology.**
(In alphabetical order).
- 5000 - 9009 Pharmacology and toxicology:**
- 5000 General overviews;**
 - 5010 Textbooks;**
 - 5020 Reviews, compendia, lecture notes etc.;**
 - 5075 In-house dissertations;**
 - 5100 Teaching laboratories in pharmacology and toxicology for pharmacists.**
 - 5200 +F1V Pharmacology (experimental pharmacology); methods in pharmacology; clinical pharmacology.**
 - 5250 +F1V Nutritional science, dietetics.**
See also VN 8000 ff., food chemistry see also VS 9650 infant nutrition; dietetic foods see also YT 2000 ff.
 - 5300 +F1V Toxicology.**
Toxins in general; testing for poisons; poisoning; antidotes; toxicological analysis; toxicology of specific medicines, cf. VS 7000 ff. (toxicological-chemical analysis, identification of poisons).
 - 5350 +F1V Chemicals: toxicology;**
carcinogens; mutagens; teratogens; "chemistry and health".
 - 5400 +F1V Animal toxins in general.**
 - 5500 +F1V Snake toxins; amphibian toxins; fish toxins; toxins of other vertebrates.**
 - 5600 +F1V Spider toxins; insect toxins; shellfish toxins; toxins of other invertebrates.**
 - 5600a Toxic plants, cf. VW 6000.**
 - 9000 +F1V Other topics in pharmacology and toxicology.**
- 9000a Biopharmacology cf. VX 8500.**
 - 9000b Pharmacokinetics; bioavailability cf. VX 8550.**
 - 9000c Pharmacology of specific drugs, cf. VS 7000 ff.**

VW Pharmaceutical Biology

- 1000 - 1099 Reference works and tables, specialised dictionaries and handbooks for pharmaceutical biology.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VW 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VW 1000.
- 2000 - 4990 Complete publications series, progress reports and yearbooks for pharmaceutical biology.**
(In alphabetical order)
- 5000 - 9009 Pharmaceutical biology in general:**
- 5000** General overviews;
 - 5010** Textbooks;
 - 5020** Reviews, compendia, lecture notes, etc.;
 - 5050** Microscopy, microanalysis: see also VG 6900;
 - 5075** In-house dissertations;
 - 5100** Microscopy teaching laboratory; laboratory courses in pharmaceutical biology.
 - 5300 +F1V** Phytochemistry; herbal substances in general; chemotaxonomy.
For specifics of chemical components of plants cf. under natural products, VK 8500 ff.
 - 5400 +F1V** Counterfeit drugs, pharmaceuticals counterfeiting.
 - 5500 +F1V** Medicinal plants (pharmaceutical plants); useful plants;
chemical components of plants, see also VW 5300.
 - 5600 +F1V** Historic herbals.
 - 5700 - 5889 Important medicinal plants and families of plants:**
 - 5700 +F1V** Legumes
 - 5730 +F1V** Apiaceae (parsley family)
 - 5760 +F1V** Gentiana; Gentian family
 - 5790 +F1V** Nightshade family (solanaceae); figwort family; digitalis
 - 5820 +F1V** Lamiaceae (mint family); deadnettle
 - 5850 +F1V** Asteraceae (aster family); compositaceae
 - 5880 +F1V** Other officinal plant taxa; lesser medicinal plants.
 - 5900 +F1V** Stimulants and spices.
See also VN 8200 stimulants etc.; spices see also VW 6100, useful plants of the tropical and subtropical regions.
 - 5950 +F1V** Narcotic plants and their narcotic products; magic plants.
See also VS 7200, drug misuse and addiction.
 - 6000 +F1V** Toxic plants; allergenic plants: toxicology.
Poisoning cf. VT 5300 ff.
 - 6100 +F1V** Useful plants of the tropical and subtropical regions.
 - 6150 +F1V** Collecting herbal drugs and their preservation; cultivation of medicinal plants.
 - 6200 - 8059 Folk medicines; natural medicines; home remedies.**
 - 6200 +F1V** General overview
 - 6250 +F1V** Popular herbal books and herbal folk medicines;
 - 6300 +F1V** Folk medicines of animal origin;
 - 8000 +F1V** Homeopathic medicine;
 - 8050 +F1V** Homeopathic drugs.
 - 9000 +F1V** Other topics in pharmaceutical biology.

VX Pharmaceutical technology including biopharmacy
(*Pharmaceuticals design, Galenics*)

- 1000 - 1099 Reference works and tables, specialised dictionaries and handbooks for pharmaceutical technology.**
These works are classified according to the year of appearance of the first edition. After the year 2000, VX 1000 is used. Before the year 2000, the two last numbers of the year of publication of the first edition are added to VX 1000.
- 2000 - 4990 Complete publications series, progress reports and yearbooks for pharmaceutical technology.**
(*In alphabetical order*).
- 5000 - 9959 Pharmaceutical technology in general:**
- 5000 General overviews;**
 - 5010 Textbooks;**
 - 5020 Reviews, compendia, lecture notes, etc.;**
 - 5075 In-house dissertations;**
 - 5100 Teaching laboratories for pharmaceutical technology.**
 - 5200 +F1V Physical-chemical (theoretical) fundamentals of pharmaceutical technology.**
 - 5500 - 8409 Types of pharmaceuticals and their preparation processes.**
For the preparation of specific pharmaceuticals cf. VS 7000 ff.
 - 5500 +F1V Quality controls and quality standards in the pharmaceutical industry.**
Drug safety in the pharmacy, see also VS 5360, drug safety in the pharmaceutical industry.
 - 5600 +F1V Drug stability.**
 - 5650 +F1V Pharmaceutical supplies, biomaterials (biomedical materials).**
See also VX 8560, excipients.
 - 6000 +F1V Solid forms of pharmaceuticals:**
 - 6020 +F1V Powders**
 - 6040 +F1V Granulates; pellets**
 - 6060 +F1V Tablets and pelletising; tablet coatings, coated tablets; sugar coatings.**
 - 6080 +F1V Drug capsules; encapsulation; microcapsules; microencapsulation.**
 - 7000 +F1V Time-release drugs; delayed-release drugs.**
See also VX 8560, controlled release of active agents.
 - 7020 +F1V Pills**
 - 7040 +F1V Extracts; extraction of drugs; thick extracts; dry extracts**
See also VX 8100, fluid extracts; tinctures.
 - 7060 +F1V Suppositories; rectal drug application; vaginal drug application.**
 - 7500 +F1V Semi-solid forms of pharmaceuticals:**
 - 7520 +F1V Salves, ointments, creams, pastes; gels**
 - 7560 +F1V Transdermal therapeutic systems (transdermal application of active agents); percutaneous therapy, plasters.**
 - 7580 +F1V Topical forms of pharmaceuticals.**
 - 8000 +F1V Liquid forms of pharmaceuticals:**
 - 8020 +F1V Solutions**
 - 8040 +F1V Emulsions, liniments**
 - 8060 +F1V Suspensions**
 - 8080 +F1V Syrups**
 - 8100 +F1V Tinctures, liquid extracts, infusions, decantations.**
 - 8200 +F1V Gaseous forms of pharmaceuticals:**
 - 8220 +F1V Inhalation agents**
 - 8240 +F1V Aerosols; aerosol packaging; foams.**
See also VE 7090, aerosols. Indiv. signum: 8240.0 Aerosol Review.
 - 8300 +F1V Sterile preparation;**
See also VX 8600, sterilisation.
 - 8320 +F1V Parenteral forms of pharmaceuticals.**
Injection solutions, infusion solutions, implants.
 - 8340 +F1V Ampoules (glass ampoules); quality controls and quality standards for glass.**
 - 8400 +F1V Stability and preservation of eye medicines; contact lenses.**

- 8500 +F1V Biopharmacy.**
See also VS 5400 ff., molecular pharmacology and biopharmaceutics; see also VT, pharmacology.
- 8550 +F1V Pharmacokinetics.**
Bioavailability; pharmaceutical supplies; drug interactions; biotransformation; bioequivalence; drug release; controlled release of active agents cf. VX 8560.
- 8560 +F1V Pharmaceutical excipients; liposome controlled release of active agents; targeted drug delivery.**
- 8600 - 8859 Specialised sub-fields of pharmaceutical technology.**
- 8600 +F1V Sterilisation; pharmaceutical microbiology,**
 Disinfectants cf. VN 8700.
- 8660 +F1V Packaging material**
- 8800 +F1V Bandages**
- 8850 +F1V Suture materials (surgical sutures).**
- 9950 +F1V Other topics in pharmaceutical technology.**
- 9950a Homeopathic medicine cf. VW 8000 ff.**

A

- Abbreviations / catalogues **VB 1025**
Absorption / process technology **VN 7260**
Acid-base equilibrium **VE 6350**
Activation analysis **VG 7000**
Active-agent release **VX 8550**
Addition compounds **VE 7800**
Additives **VN 8100**
Additives **VN 8400**
Address books / chemical industry **VB 4500**
Address books / chemists **VB 1700**
Address books / companies **VB 4500**
Address books / pharmacists **VB 1700**
Address books / research institutions **VB 1700**
Adhesion **VN 5550**
Adhesive compounds **VN 5550**
Adhesives **VN 5550**
Adrenal insufficiency / pharmaceuticals **VS 7700**
Adsorption **VE 7020**
Adsorption / process technology **VN 7260**
Aerosol packaging **VX 8240**
Aerosols **VE 7090**
Aerosols / pharmaceutical technology **VX 8240**
Affinity chromatography **VG 7600**
Agglomeration **VN 7160**
Air classification **VN 7180**
Air pollution **VN 9350**
Air purification **VN 9350**
Alchemy **VB 2330**
Aldehydes **VK 7300**
Alicyclic compounds **VK 7100**
Aliphatic compounds **VK 7100**
Alkaloids **VK 8620**
Alkylating agents / pharmacy **VS 9100**
Alkylating substances *cf.* alkylating agents
Allergenic plants **VW 6000**
Allergies / drugs *cf.* drug allergies
Alloys **VE 9650**
Alternative materials **VN 9500**
Amines **VK 7400**
Amines **VK 8560**
Amino acids **VK 8560**
Ammonia synthesis **VN 6010**
Amphibian toxins **VT 5500**
Ampoules <Technology> / pharmaceutical technology **VX 8340**
Anaesthetics **VS 7100**
Analgesics **VS 7100**
Analysis / chemistry *cf.* chemical analysis
Analysis / food chemistry *cf.* food analysis
Analysis / pharmacy *cf.* pharmaceutical analysis
Analytical biotechnology **VN 8930**
Analytical chemistry / compilation of exercises **VG 5200**
Analytical chemistry / computations **VG 5200**
Analytical chemistry / history **VB 2420**
Analytical chemistry / methods **VG 5150**
Analytical chemistry / teaching laboratories **VG 5100**
Analytical chemistry / textbooks **VG 5010**
Androgens **VS 7800**
Animal toxins **VT 5400**
Antacids **VS 8200**

Anthelmintics VS 8500
Antiallergenics VS 7900
Antiarrhythmics VS 8100
Antiasthmatics VS 7380
Antibiotics VS 8700
Antibiotics / tumours VS 9100
Anticoagulants VS 8000
Antidiabetics VS 7600
Antidiuretics VS 8300
Antidotes VT 5300
Antiepileptics VS 7100
Antihistamines VS 7900
Antihypertotics VS 8100
Antihypotonics VS 8100
Antimalarial agents VS 8500
Antimetabolites VS 9100
Antimetabolites VS 9400
Antimycotics VS 8450
Antiphlogistics *cf.* inflammation inhibiting agents
Antipyretics VS 8760
Antirheumatics VS 8780
Antiseptics VS 8450
Antiserum VS 9000
Antitoxins *cf.* antidotes
Antituberculosis agents VS 8500
Antitussives *cf.* cough medicines
Antiviral agents *cf.* virucides
Apiaceae (parsley family) VW 5730
Apparatus / chemistry *cf.* laboratory apparatus
Apparatus construction VN 7320
Applied chemistry / compilations of exercises VN 5200
Applied chemistry / teaching laboratories VN 5100
Applied chemistry / textbooks VN 5010
Archeometry VG 5500
Aromas VK 8530
Aromatic compounds VK 7100
Artificial fibres *cf.* chemical fibres
Artificial intelligence / chemistry VC 6150
Asteraceae (aster family) / pharmaceutical biology VW 5850
Astrochemistry *cf.* cosmochemistry
Atmosphere / ecological chemistry VN 9350
Atomic absorption flame spectrometry *cf.* atomic absorption spectroscopy
Atomic absorption spectroscopy VG 8730
Atomic fluorescence spectroscopy VG 8750
Atomic spectra VG 8700
Atomic structure VE 5300
Atomisation VN 7170
Auger spectroscopy VG 9100
Autoanalysis VG 5170
Automation / analytic chemistry VG 5170
Automation / chemistry VC 6450

B

Bandaging material / pharmaceutical technology VX 8800
Basic operation VN 7100
Batteries VN 6050
Beer / food chemistry VN 8200
Best laboratory practice VB 4130
Best practice / pharmacy VR 5800
Bioavailability VX 8550
Biochemical evolution VE 5780
Bioequivalence VX 8550

Biographical bibliographies / chemistry **VB 1700**
Biographical bibliographies / pharmacy **VB 1700**
Biographies / chemists **VB 3100**
Biographies / pharmacists and pharmacologists **VB 3100**
Bioinorganic chemistry **VH 9750**
Biomaterials **VX 5650**
Biomedical materials *cf.* biomaterials
Bio-organic chemistry **VK 8500**
Biopharmacy **VX 8500**
Biopharmacy / laboratory courses **VS 5410**
Bioprocess technology **VN 7280**
Biosensors **VN 7280**
Biotechnological synthesis **VN 8950**
Biotechnology **VN 8900**
Biotransformation **VS 5450**
Biotransformation **VX 8550**
Blood clotting **VS 8000**
Blood / pharmaceuticals **VS 8000**
Blood plasma **VS 8000**
Blood, preserved **VS 8000**
Blood serum **VS 8000**
Books for young people / chemistry **VB 2000**
Buffer solutions **VE 6350**

C

Cage compounds **VK 7150**
Calcitonin **VS 7500**
Calixarene *cf.* metacyclophane
Calorimetry **VG 7100**
Cancer <Medicine> / chemotherapy **VS 9100**
Capillary analysis **VG 7300**
Capillary chemistry **VN 6060**
Capillary electrophoresis **VG 8250**
Capsules / drugs *cf.* drug capsules
Carbocyclenes **VK 7100**
Carbohydrates **VK 8580**
Carbonyl compounds **VK 7300**
Carboxyl compounds **VK 7300**
Carboxylic acids **VK 7300**
Carcinogens **VT 5350**
Cardiovascular system / pharmaceuticals **VS 8100**
Cardiovascular system / pharmacy **VS 8100**
Catalogues *cf.* sales catalogues
Catalysis **VE 7040**
Catalysis / chemical process technology **VN 7340**
Catalysts **VE 7040**
Catalysts / organic chemistry **VK 5500**
CD *cf.* circular dichroism
Cellulose **VN 5510**
Central nervous system / pharmaceuticals **VS 7100**
Centrifugal analysis **VG 7700**
Centrifugation **VN 7180**
Certified pharmaceuticals / lists of **VR 7500**
Chaos / theoretical chemistry **VE 5780**
Chelates **VH 9700**
Chemical analysis / food chemistry *cf.* foodstuff analysis
Chemical analysis / pharmacy *cf.* pharmaceutical analysis
Chemical analysis / technical chemistry **VN 7500**
Chemical apparatus / construction **VN 7320**
Chemical bonding **VE 5300**
Chemical elements **VH 8000**
Chemical evolution **VE 5780**

Chemical facilities *cf.* chemical plants
Chemical fibres **VN 5900**
Chemical industry **VB 4010**
Chemical industry / environmental contamination **VN 9250**
Chemical industry / history **VB 2340**
Chemical nomenclature / analytic chemistry **VG 5030**
Chemical nomenclature / inorganic chemistry **VH 5030**
Chemical nomenclature / organic chemistry **VK 5030**
Chemical nomenclature / physical chemistry **VE 5030**
Chemical plants **VN 7320**
Chemical plants / safety **VN 9250**
Chemical process / optimisation **VC 6450**
Chemical process / simulation **VC 6340**
Chemical process technology **VN 7000**
Chemical process technology / control **VN 7330**
Chemical process technology / mathematics **VN 7030**
Chemical process technology / measurements **VN 7330**
Chemical process technology / physical chemistry **VN 7050**
Chemical purity / testing **VG 6000**
Chemical reaction / simulation **VC 6320**
Chemical reaction technology *cf.* reaction technology
Chemical reactors **VN 7320**
Chemical research / ethics **VB 2100**
Chemical structure / data banks **VC 6700**
Chemical structure / documentation **VC 6700**
Chemical syntheses / planning **VC 6280**
Chemical systems / theoretical chemistry **VE 5780**
Chemical teaching laboratories *cf.* chemistry / teaching laboratories
Chemicals / laws **VB 4130**
Chemicals / purity / testing **VG 6000**
Chemicals / sales catalogues **VB 4600**
Chemicals / toxicology **VT 5350**
Chemistry / books for young people **VB 2000**
Chemistry / compilations of exercises **VC 5200**
Chemistry / continuing education **VB 4050**
Chemistry / data processing **VC 6000**
Chemistry <Field> / dictionaries **VB 1100 - VB 1100.27**
Chemistry / dissertations (in-house) **VC 8000**
Chemistry / history **VB 2300**
Chemistry / history <beginnings - 500> **VB 2310**
Chemistry / history <500 - 1500> **VB 2320**
Chemistry / history <1500 - 1800> **VB 2360**
Chemistry / history <1500 ff.> **VB 2340**
Chemistry / history <1800 - 1900> **VB 2380**
Chemistry / history <1900 - 1992> **VB 2380**
Chemistry / literature evaluation **VB 4300**
Chemistry / methodology **VB 4045**
Chemistry / popularisations **VB 2000**
Chemistry / profession **VB 4048**
Chemistry / schoolbooks **VB 4072**
Chemistry / scientific literature **VB 4400**
Chemistry / scientific manuscripts / publication **VB 4400**
Chemistry teaching **VB 4045**
Chemistry / teaching laboratories **VC 5100**
Chemistry / teaching materials **VB 4060**
Chemistry / technical colleges / textbooks **VB 4071**
Chemistry / textbooks **VC 5010**
Chemists / biographical bibliographies **VB 1700**
Chemists / biographies **VB 3100**
Chemometrics **VC 6050**
Chemometrics / analytic chemistry **VC 6400**
Chemotaxonomy **VW 5300**
Chemotherapeutic agents **VS 8500**

Choleretics VS 8200
Chromatography VG 7200
Chronopharmacology VS 5900
Circular dichroism VE 8700
Circulatory-system medicines VS 8100
Clathrates VK 7150
Cleansing agents VK 7900
Clinical chemistry VS 5400
Clinical pharmacology VT 5200
Cluster compounds VE 8100
Cluster ions VE 8100
Coal chemistry VN 5430
Coated tablets VX 6060
Coffee / food chemistry VN 8200
Colloids VE 8000
Colourimetry VG 8800
Colourimetry / reagents VG 6620
Column chromatography VG 7500
Combustion VE 6000
Companies / address books / chemistry VB 4500
Companies / address books / pharmacy VB 4500
Compilations of exercises / chemistry VC 5200
Compilations of exercises / chemistry VE 5200
Compilations of exercises / chemistry VG 5200
Compilations of exercises / chemistry VH 5200
Compilations of exercises / chemistry VK 5200
Complexes VE 7800
Complexes / analytical chemistry VG 6620
Complexes / inorganic chemistry VH 9600
Complexes / organic chemistry VK 5800
Complexion VG 6620
Complexometry VG 6620
Compositae cf. asteraceae
Computational chemistry VC 6100
Computations / analytical chemistry VG 5200
Computations / chemistry VC 5200
Computations / physical chemistry VE 5200
Computations / technical chemistry VN 5200
Computer-experiment coupling VC 6400
Computer graphics / chemistry VC 6200
Computer simulations / chemistry VC 6300
Computers / chemical industry VC 6500
Computers / chemical laboratories VC 6400
Conductometry VG 8050
Conferences / chemistry VC 5080
Conferences / pharmacy VR 3000 - VR 3099
Conferences / planning VB 4400
Constipation medicines VS 8200
Construction chemistry VN 5870
Contact lenses / pharmaceutical technology VX 8400
Continuing education / chemistry VB 4050
Continuing education / pharmacy VB 4050
Contraceptives VS 7800
Contrast agents VS 8400
Control technology VN 7330
Control technology / environmental protection VN 9300
Control technology / technical chemistry VN 7000
Controlled release of active agents VX 8560
Coordination compounds cf. complexes
Corrosion VN 6030
Cortisone VS 7700
Cosmetics VN 8300
Cosmochemistry VE 5790

Cough medicine **VS 7380**
Coulometry **VG 8160**
Creams / pharmaceutical technology **VX 7520**
Crown ethers **VK 7150**
Crystal chemistry **VE 9350**
Crystal structure **VE 9350**
Crystallisation **VE 9500**
Crystallisation / process technology **VN 7260**
Crystallography **VE 9350**
Curricula / chemistry / correspondence and online courses **VB 4091**
Curricula / chemistry in schools **VB 4092**
Curricula / chemistry / technical colleges **VB 4091**
Curricula / chemistry / university level **VB 4090**
Cybernetics / chemistry **VN 7000**
Cyclic compounds **VK 7100**
Cyclophanes **VK 7150**
Cytostatics **VS 9100**

D

DAB *cf.* German Pharmacopoeia (*Deutsches Arzneibuch*)
Daily needs / food chemistry **VN 8300**
Data bank / chemical structures **VC 6700**
Data processing / chemistry **VC 6050**
Data processing / pharmacy **VC 6050**
Decantations **VX 8100**
Dermatics **VS 7350**
Desalination **VN 9360**
Desorption **VE 7020**
Desorption / process technology **VN 7260**
Detergents **VE 7060**
Detergents **VK 7900**
Deuterium **VE 8400**
Didactics, college level / chemistry **VB 4050**
Didactics, college level / pharmacy **VB 4050**
Dielectric properties **VE 5300**
Dietetic foods **VS 9650**
Dietetics **VT 5250**
Differential thermal analysis (DTA) **VE 6000**
Diffusion **VE 5900**
Digitalis <Nightshade family> / pharmaceutical biology **VW 5790**
DIN standards **VC 9500**
Dipoles **VE 5300**
Disinfectants **VN 8700**
Dissertations (in-house, specific institutions) / chemistry **VC 8000**
Dissertations (in-house, specific institutions) / pharmacy **VC 8000**
Distillation **VN 7200**
Diuretics **VS 8300**
DNA **VK 8570**
Documentation / chemical structures **VC 6700**
Documentation / pharmacy **VB 4300**
Dosage tables **VR 7600**
Drinking water **VN 8150**
Drug allergies **VS 7900**
Drug capsules **VX 6080**
Drug certification **VR 2520**
Drug counterfeiting **VW 5400**
Drug dependency **VS 7200**
Drug design **VC 6250**
Drug lists *cf.* certified pharmaceuticals
Drug misuse and addiction **VS 7200**
Drug plant cultivation *cf.* medicinal plants, cultivation
Drug plants *cf.* medicinal plants

Drug receptors **VS 5900**
Drug safety **VS 5360**
Drug safety / pharmacy **VX 5500**
Drug stability **VX 5600**
Drugs <Preparation> / collecting **VW 6150**
Drugs <Preparation> / preserving **VW 6150**
Drugs / side effects **VS 5700**
Dry extracts *cf.* extracts, dry
Drying / chemical process technology **VN 7240**
DTA *cf.* differential thermal analysis
Dyeing **VN 5800**
Dyes **VK 8200**
Dyes / technology **VN 5800**

E

Ear medicines **VS 7350**
Ecochemistry *cf.* ecological chemistry
Ecological chemistry **VN 9200**
Education / chemists **VB 4048**
Education / pharmacists **VR 2650**
Electroanalysis **VG 8000**
Electrochemical analysis *cf.* electroanalysis
Electrochemistry **VE 6300**
Electrochemistry / organic compounds **VK 5660**
Electrochemistry / technology **VN 6050**
Electrochromic materials **VE 9580**
Electrochromics **VE 9580**
Electrolytes **VE 6350**
Electron diffraction **VG 9900**
Electron microscopy **VG 9900**
Electron spectroscopy **VG 9700**
Electron spin resonance spectroscopy (ESR) **VG 9700**
Electrophoresis **VG 8200**
Electrophoretic deposition *cf.* electrophoretic painting
Electrophoretic painting **VN 6040**
Elemental analysis **VG 6500**
Elemental analysis / organic chemistry **VK 5680**
Element-organic compounds **VK 7700**
Elements <Chemistry> *cf.* chemical elements
Emission spectroscopy **VG 8700**
Emulsion **VE 7080**
Emulsion / pharmaceutical technology **VX 8040**
Encapsulation / pharmaceutical technology **VX 6080**
Environmental analysis **VN 9300**
Environmental chemicals **VN 9280**
Environmental chemistry *cf.* ecological chemistry
Environmental protection **VN 9250**
Environmental stress **VN 9250**
Environmental toxicology **VN 9280**
Enzian plant family / pharmaceutical biology **VW 5760**
Enzymes **VK 8700**
EPR spectroscopy *cf.* electron spin resonance spectroscopy (ESR)
Error analysis / chemistry **VC 6400**
Error estimation / chemistry **VC 6400**
ESR spectroscopy *cf.* electron spin resonance spectroscopy
Estrogens **VS 7800**
Ethereic oils **VK 8530**
European pharmacopoeia **VR 2050**
European pharmacopoeia / commentaries **VR 2050**
Evaporation **VN 7260**
Everyday life / chemistry **VN 9800**
Exclusion chromatography *cf.* gel chromatography

Experiment / chemistry / planning **VC 6300**
Expert system / chemistry **VC 6150**
Explosive materials **VN 5480**
Explosives **VN 5480**
Extraction **VN 7230**
Extraction / analytic chemistry **VG 7200**
Extraction / pharmaceutical technology **VX 7040**
Extracts, dry **VX 7040**
Extracts / pharmaceutical technology **VX 7040**
Extracts, thick **VX 7040**
Eye medicines **VS 7350**
Eye medicines / pharmaceutical technology **VX 8400**

F

Fats **VK 8520**
Fats / processing **VN 5420**
Fees and charges, catalogues / chemistry **VB 4100**
Fertilisers **VN 6100**
Filtration **VN 7190**
Fish toxins **VT 5500**
Flame spectroscopy **VG 8730**
Flavonoids **VK 8550**
Flotation **VN 6060**
Flow injection analysis **VG 5170**
Fluid chromatography *cf.* SFC
Fluid extracts **VX 8100**
Fluorescence analysis **VG 8750**
Fluorimetry **VG 8750**
Foam **VE 7070**
Foam / pharmaceutical technology **VX 8240**
Folk medicines **VW 6200**
Food additives *cf.* additives
Food assessment **VN 8400**
Food chemistry **VN 8000**
Food colourings **VN 8100**
Food laws **VN 8500**
Food packaging *cf.* packaging / foodstuffs
Food technology **VN 8000**
Foodstuff analysis **VN 8400**
Foodstuff and utensil laws **VB 4130**
Foodstuffs **VN 8100**
Foodstuffs / microbiology *cf.* nutritional microbiology
Forensic chemistry **VN 8800**
Fractals / chemistry **VE 5780**
Freeze drying **VN 7240**
Fuel cells **VN 6050**
Fuels **VN 5470**
Fuels **VN 6050**
Fullerenes **VK 7150**
Functional group / analysis **VK 5680**
Fungicides **VN 8700**

G

Galenics *cf.* pharmaceutical technology
Galvanic technology **VN 6040**
Gas analysis **VG 6650**
Gas chromatography **VG 7400**
Gaseous form of pharmaceuticals **VX 8200**
Gastrointestinal medicines **VS 8200**
Gel chromatography **VG 7600**
Gel electrophoresis **VG 8400**

Gel permeation chromatography *cf.* gel chromatography
Gels / pharmaceutical technology **VX 7520**
Genetic technology / chemical industry **VN 8980**
Geochemistry **VE 9600**
Geology / age determination **VG 7000**
German Pharmacopoeia (*Deutsches Arzneibuch*) **VR 2000**
German Pharmacopoeia (*Deutsches Arzneibuch*) / commentaries **VR 2000**
Gestagens **VS 7800**
Glass ampoules *cf.* ampoules <Technology>
Glass / chemistry **VE 9670**
Glass / quality controls **VX 8340**
Glass / quality standards **VX 8340**
Glucagon **VS 7600**
Glues, adhesives **VN 5550**
Glycosides **VK 8600**
Gonads / medicines **VS 7800**
Grain-size analysis **VN 7170**
Granulates / pharmaceutical technology **VX 6040**
Graph theory / chemistry **VC 6100**
Gravimetry / chemistry **VG 6550**
Group theory / chemistry **VE 5700**
Growth regulator **VN 6100**

H

Habilitation theses (specific institutions) / pharmacy **VC 8000**
Heart and circulatory system *cf.* cardiovascular system
Heart glycosides **VS 8100**
Hepatics *cf.* liver therapy
Herbals **VW 5600**
Herbals / folk remedies **VW 6250**
Herbicides **VN 8700**
Heterocyclic compounds **VK 7200**
High-pressure chemistry **VE 5870**
High-pressure liquid chromatography *cf.* HPLC
High-pressure planar liquid chromatography *cf.* HPPLC
High-temperature chemistry **VE 5850**
High-vacuum techniques / chemistry **VE 5860**
Histamine **VS 7900**
Histamine antagonists *cf.* antihistamines
History / chemistry **VB 2300**
History / pharmacy **VB 2300**
Home medication **VR 5800**
Home remedies **VW 6200**
Homeopathic drugs **VW 8050**
Homeopathic medicine **VW 8000**
Hormones **VK 8670**
HPCE **VG 8250**
HPLC **VG 7500**
HPPLC **VG 7300**
HPTLC **VG 7300**
Hydrocarbons **VK 7000**
Hydrogen / energy carrier **VN 6050**
Hydrogen-ion concentration **VE 6350**
Hypnotics **VS 7100**
Hypothalamus-pituitary system *cf.* pituitary-dienecephalon system

I

ICR spectroscopy **VG 9730**
Immune serum *cf.* antiserum
Immune stimulants **VS 9200**
Immunopharmacological drugs **VS 9200**

Immunopharmacology **VS 9200**
Immunosuppressants **VS 9200**
Implant **VX 8320**
Impurities / foodstuffs *cf.* additives
Impurity metabolism *cf.* biotransformation
Inclusion compounds **VE 7800**
Indicator / analytical chemistry **VG 6600**
Industrial microbiology **VN 8900**
Infant nutrition **VS 9650**
Inflammation inhibiting agents **VS 8760**
Information storage / chemistry **VC 6700**
Information systems / chemistry **VC 6700**
Infrared **VG 9200**
Infrared spectroscopy **VG 9200**
Infusion **VX 8100**
Infusion solution **VX 8320**
Inhalation agents **VX 8220**
Injection solutions **VX 8320**
Inorganic chemistry / compilations of exercises **VH 5200**
Inorganic chemistry / nomenclature **VH 5030**
Inorganic chemistry / photochemistry **VH 5600**
Inorganic chemistry / physical-chemical measurements **VH 5660**
Inorganic chemistry / reaction mechanisms **VH 6000**
Inorganic chemistry / teaching laboratories **VH 5100**
Inorganic chemistry / textbooks **VH 5010**
Inorganic fibres **VH 9500**
Inorganic materials **VN 6020**
Inorganic polymers **VH 9500**
Inorganic ring systems **VH 9500**
Inorganic stereochemistry **VH 5800**
Inorganic synthesis **VH 5500**
Inorganic synthesis / industrial scale **VN 6010**
Insecticides **VN 8700**
Insect toxins **VT 5600**
Insulin **VS 7600**
Intelligent materials *cf.* smart materials
Interactions / of drugs **VS 5800**
Interface-active materials **VE 7060**
Interface (surface) chemistry **VE 7000**
Interferometry **VG 8650**
Intermolecular forces **VE 5300**
Ion cyclotron resonance spectroscopy *cf.* ICR spectroscopy
Ion-exchange chromatography **VG 7800**
Ion exchangers **VG 7800**
Ion-pair chromatography **VG 7850**
Isotope dilution analysis **VG 7000**
Isotope effects **VE 8400**
Isotopes **VE 8400**
Isotopes / inorganic chemistry **VH 5640**
Isotopes / organic chemistry **VK 5640**

J

K

Ketones **VK 7300**
Kidneys / pharmaceuticals **VS 8300**
Kinetics / chemistry *cf.* reaction kinetics

L

Laboratory apparatus **VB 4100**
Laboratory apparatus / sales catalogues **VB 4650**

Lamiaceae (mint family) / pharmaceutical biology **VW 5820**
Laser chemistry **VG 8850**
Laser spectroscopy **VG 8850**
Laxatives **VS 8200**
Learning programmes *cf.* curricula
Legumes / pharmaceutical biology **VW 5700**
Lesser medicinal plants **VW 5880**
Licensing of pharmacists **VR 2650**
Ligand-exchange chromatography **VG 7650**
Ligand field theory **VE 5720**
Light, diffraction **VG 9900**
Light-sensitive compounds **VK 8250**
Liniments **VX 8040**
Lipid reducers **VS 8000**
Lipids **VK 8520**
Liposomes / pharmaceutical excipients **VX 8560**
Liquefied gas **VN 5450**
Liquid chromatography **VG 7500**
Liquid-crystalline polymers **VK 8000**
Liquid crystals **VE 9550**
Liquid form of pharmaceuticals **VK 8000**
Liquid scintillation measurements **VG 7000**
Liquids / structure **VE 7300**
Liver protective therapy **VS 8200**
Liver therapy **VS 8200**
Local anaesthetics **VS 7300**
Low-temperature chemistry **VE 5830**
Luminescence analysis **VG 8750**
Luminescent materials **VK 8250**
Lyophilisation *cf.* freeze drying

M

Macrocyclic compounds **VK 7150**
Macrolides **VK 7150**
Macromolecules **VE 8000**
Magic plants **VW 5950**
Magnetic resonance **VG 9500**
Managerial economics / pharmacy **VR 5900**
Marked compounds / spectroscopy **VG 8900**
Marketing / pharmaceutical industry **VX 5500**
Masking <Chemistry> **VG 6620**
Mass spectrometry **VG 9800**
Mass transport / chemistry **VE 5900**
Materials science **VE 9650**
Materials separation *cf.* separation methods
Mathematical chemistry **VC 6000**
Mathematics / chemistry **VC 6000**
Matrix isolation spectroscopy **VG 8900**
Measurement technology / chemical process technology **VN 7330**
Measurement technology / environmental analysis methods **VN 9300**
Mechanical process technology **VN 7150**
Mechanical separation **VN 7180**
Mechanical separation methods **VN 7180**
Mechanochemistry **VE 9800**
Medicinal plants **VW 5500**
Medicinal plants, cultivation **VW 6150**
Medicinal plants / subtropical **VW 6100**
Medicinal plants / tropical **VW 6100**
Medicinal springs **VN 8150**
Membrane transport **VE 7100**
Membranes **VE 7100**
Mesoscopic systems **VE 9850**

Metacyclophane **VK 7150**
Metal analysis **VN 7550**
Metal chelates **VH 9700**
Metal clusters **VH 9600**
Metal-metal bonds **VH 9600**
Metal-organic compounds **VH 9700**
Metallurgy **VE 9650**
Micellar electrokinetic chromatography (MEKC) **VG 8250**
Micelles **VE 7060**
Microanalysis **VG 6700**
Microbiology / foods *cf.* food microbiology
Microbiology / pharmacy *cf.* pharmaceutical microbiology
Microcapsules **VX 6080**
Microencapsulation **VX 6080**
Microscopic analysis / chemistry **VG 6900**
Microscopic analysis / pharmacy **VW 5050**
Microscopy **VW 5050**
Microscopy / teaching laboratories **VW 5100**
Microwave spectroscopy **VG 9400**
Mineralogy **VE 9600**
Mineralogy / technology **VN 6060**
Mitosis inhibitor *cf.* mitosis toxin
Mitosis toxin **VS 9100**
Mixed phases **VE 7600**
Mixing **VN 7160**
Model building / chemistry **VC 6300**
Molecular design *cf.* molecule design
Molecular modelling **VC 6250**
Molecular pharmacology **VS 5400**
Molecular pharmacology / teaching laboratories **VS 5410**
Molecular pharmacology / textbooks **VS 5010**
Molecular recognition **VK 8500**
Molecular sieve **VN 6060**
Molecular spectrum **VG 9300**
Molecular structure **VE 5300**
Molecular symmetry **VE 5700**
Molecular vibrations / theory **VE 5740**
Molecule design **VC 6250**
Mossbauer spectroscopy **VG 8950**
Motor fuel *cf.* fuel
Muscle relaxants **VS 7300**
Mutagens **VT 5350**

N

Nanoparticles **VE 9850**
Nanostructured materials **VE 9850**
Nanotechnology **VE 9850**
Narcotic drugs law **VR 2500**
Narcotic plants **VW 5950**
Narcotics **VS 7100**
Narcotics / pharmaceutical biology **VW 5950**
Natural dyes **VK 8550**
Natural gas **VN 5450**
Natural medicines **VW 6200**
Natural products **VK 8500**
Natural products / processing **VN 5420**
Natural sciences / philosophy **VB 2100**
Neutron diffraction **VG 9900**
Nightshades / pharmaceutical biology **VW 5790**
Nightshades (solanaceae) **VW 5790**
NMR spectroscopy **VG 9500**
Nomenclature *cf.* chemical nomenclature

Nonequilibrium systems **VE 5780**
Nostrums **VR 9500**
NQR spectroscopy **VG 9500**
Nuclear chemistry **VE 8300**
Nuclear chemistry / technology **VN 6080**
Nuclear magnetic resonance spectroscopy *cf.* NMR spectroscopy
Nuclear magnetic resonance / theory **VE 8600**
Nuclear quadrupole resonance **VG 9500**
Nuclear power plants/ safety **VN 9250**
Nuclear radiations **VE 8300**
Nuclear radiations / organic compounds **VK 5600**
Nuclear resonance spectroscopy *cf.* NMR spectroscopy
Nuclear technology **VN 6080**
Nucleic acids **VK 8570**
Nucleosides **VK 8570**
Nucleotides **VK 8570**
Nursing articles **VS 9600**
Nutrition *cf.* nutritional science; food and foodstuffs
Nutritional microbiology **VN 8100**
Nutritional science **VT 5250**

O

Occupational safety / chemical laboratory **VB 4150**
Officinal plants **VW 5500**
Oils / processing **VN 5420**
One-dimensional systems **VE 9530**
Online research / chemistry **VC 6700**
Ophthalmics *cf.* eye medicines
Optical activity **VE 8700**
Optical rotational dispersion *s.* rotational dispersion
Optimisation / analytic chemistry **VC 6400**
Optimisation / chemistry / data processing **VC 6300**
Opto-electronic materials **VE 9580**
Organic analysis **VK 5680**
Organic chemistry / compilations of exercises **VK 5200**
Organic chemistry / history **VB 2410**
Organic chemistry / nomenclature **VK 5030**
Organic chemistry / physical-chemical measurements **VK 5660**
Organic chemistry / reaction mechanisms **VK 6000**
Organic chemistry / stereochemistry **VK 5800**
Organic chemistry / teaching laboratories **VK 5100**
Organic chemistry / textbooks **VK 5010**
Organic compounds / toxicology **VT 5350**
Organic conductors **VE 9530**
Organic reagents / analytic chemistry **VG 6620**
Organic semiconductors **VE 6300**
Organic synthesis **VK 5500**
Organic synthesis / industrial scale **VN 5400**
Organo-element compounds *cf.* element-organic compounds
Organo-nitrogen compounds **VK 7400**
Over-the-counter pharmaceuticals **VR 7500**
Oxidation potentials *cf.* redox potentials
Oxidation-reduction potentials *cf.* redox potentials
Oxonium salts / organic compounds **VK 7300**

P

Packaging / foodstuffs **VN 8600**
Packaging material / foodstuffs **VN 8600**
Packaging material / pharmaceuticals **VX 8660**
Painkillers *cf.* analgesics
Paint, enamel **VN 5750**

Paints **VN 5750**
Pancreas / pharmaceuticals **VS 7600**
Paper / chemistry **VN 5500**
Paper chromatography **VG 7300**
Paper electrophoresis **VG 8350**
Parasympatholytics **VS 7300**
Parathyroid / pharmaceuticals **VS 7500**
Parenteral forms of pharmaceuticals **VX 8320**
Particle measurement techniques **VN 7170**
Particle-size analysis **VN 7170**
Paste / pharmaceutical technology **VX 7520**
Pasteboard / chemistry **VN 5510**
Patents **VB 4190**
Pathobiochemistry **VS 5400**
Pattern recognition / chemistry **VC 6050**
Pelletising **VX 6060**
Pellets / pharmaceutical technology **VX 6040**
Peptides **VK 8560**
Percutaneous therapy / pharmaceuticals **VX 7560**
Periodicals titles / bibliographies **VB 1025**
Peripheral nervous system / pharmaceuticals **VS 7300**
Pesticides **VN 8700**
Petrochemistry **VN 5450**
Petrochemistry <Geochemistry> *cf.* geochemistry
Petroleum / chemistry **VN 5450**
Petroleum industry **VN 5450**
Pharmaceutical agents **VS 7000 - VS 9409**
Pharmaceutical analysis **VS 5300**
Pharmaceutical biology / methods **VW 5050**
Pharmaceutical biology / teaching laboratories **VW 5100**
Pharmaceutical biology / textbooks **VW 5010**
Pharmaceutical chemistry / teaching laboratories **VS 5100**
Pharmaceutical chemistry / textbooks **VS 5010**
Pharmaceutical examination **VR 2520**
Pharmaceutical examination / clinical examination **VS 5360**
Pharmaceutical excipients **VX 8560**
Pharmaceutical industry **VB 4010**
Pharmaceutical industry / marketing **VX 5500**
Pharmaceutical industry / quality controls **VX 5500**
Pharmaceutical industry / quality standards **VX 5500**
Pharmaceutical materials **VX 5650**
Pharmaceutical microbiology **VX 8600**
Pharmaceutical research / ethics **VB 2100**
Pharmaceutical technology / physical chemistry **VX 5200**
Pharmaceutical technology / teaching laboratories **VX 5100**
Pharmaceutical technology / textbooks **VX 5010**
Pharmaceuticals catalogues / historic **VR 9500**
Pharmaceuticals / counterfeiting **VW 5400**
Pharmaceuticals / design and development **VS 5350**
Pharmaceuticals, form **VX 6000**
Pharmaceuticals / price schedule **VR 6600**
Pharmaceuticals / storage of **VR 7000**
Pharmaceuticals / synthesis of **VS 5350**
Pharmaceutics and pharmacology / bibliographies **VR 2400**
Pharmaceutics and pharmacology / calculations **VR 5200**
Pharmaceutics and pharmacology / compilations of exercises **VR 5200**
Pharmaceutics and pharmacology / continuing education **VB 4050**
Pharmaceutics and pharmacology / didactics **VB 4045**
Pharmaceutics and pharmacology / dissertations / specific institutions **VC 8000**
Pharmaceutics and pharmacology / documentation **VB 4300**
Pharmaceutics and pharmacology / history **VB 2450**
Pharmaceutics and pharmacology / history / Germany **VB 2470**
Pharmaceutics and pharmacology / literature research **VB 4300**

Pharmaceutics and pharmacology / methodology **VB 4045**
Pharmaceutics and pharmacology / popularisations **VB 2000**
Pharmaceutics and pharmacology / scientific literature **VB 4400**
Pharmaceutics and pharmacology / scientific manuscripts / publication **VB 4400**
Pharmaceutics and pharmacology / teaching laboratories **VR 5100**
Pharmaceutics and pharmacology / terminology **VR 5030**
Pharmaceutics and pharmacology / textbooks **VR 5010**
Pharmacists / biographical bibliographies **VB 1700**
Pharmacists / biographies **VB 3100**
Pharmacists / occupational profile **VR 2650**
Pharmacodynamics **VS 5900**
Pharmacogenetics **VS 5380**
Pharmacognosy *cf.* pharmaceutical biology
Pharmacokinetics **VX 8550**
Pharmacology / methods **VT 5200**
Pharmacology / teaching laboratories **VT 5100**
Pharmacology / textbooks **VT 5010**
Pharmacopoeias **VR 2000**
Pharmacopoeias / commentaries **VR 2000**
Pharmacy **VR 5800**
Pharmacy / equipping **VR 5900**
Pharmacy / history **VB 2450**
Pharmacy / history / Germany **VB 2470**
Pharmacy laws **VR 2500**
Pharmacy / pharmaceutical products **VS 9900**
Phase diagram **VE 9500**
Philosophy / natural sciences **VB 2100**
Phosphorescence spectroscopy **VG 8760**
Phosphorimetry *cf.* phosphorescence spectroscopy
Phosphors *cf.* luminescent materials
Photochemistry **VE 8300**
Photochemistry / inorganic chemistry **VH 5600**
Photochemistry / organic chemistry **VK 5600**
Photochemotherapy **VS 9300**
Photochromic compounds **VE 9580**
Photoeffect **VG 9100**
Photoelectron spectroscopy **VG 9100**
Photography / chemistry **VN 5850**
Photometry **VG 8800**
Physical-chemical measurements **VE 9900**
Physical-chemical measurements / inorganic chemistry **VH 5660**
Physical-chemical measurements / organic chemistry **VK 5660**
Physical chemistry / compilations of exercises **VE 5200**
Physical chemistry / methods **VE 9900**
Physical chemistry / teaching laboratories **VE 5100**
Physical chemistry / textbooks **VE 5010**
Phytochemistry **VW 5300**
Phytopharmaceuticals **VS 9450**
Phytotherapy **VS 9450**
Pigments / technology **VN 5750**
Pills / pharmaceutical technology **VX 7020**
Pituitary-diencephalon system / active agents **VS 7400**
Plant hormones **VN 6100**
Plants / chemical components **VW 5300**
Plasma chemistry **VE 5850**
Plasma expander *cf.* plasma substitutes
Plasma spectroscopy **VG 8930**
Plasma substitutes **VS 8000**
Plaster / pharmacy **VX 7560**
Plastics **VN 5900**
Plastics analysis **VN 5980**
Plastics <Chemistry> **VK 8000**
Plastics industry **VN 5970**

Plastics manufacturing **VN 5920**
Plastics processing **VN 5940**
Poison analysis *cf.* toxicological analysis
Poisoning **VT 5300**
Polarimetry **VG 8500**
Polarography **VG 8130**
Polymers / inorganic chemistry **VH 9500**
Polymers / organic chemistry **VK 8000**
Polymers / physical chemistry **VE 8000**
Polymers / technology **VN 5900**
Potentiometry **VG 8100**
Powder / pharmaceuticals **VX 6020**
Powder / pharmacy **VX 6020**
Precipitates <Chemistry> **VG 6550**
Pregnancy hormones *cf.* gestagens
Preparative inorganic chemistry **VH 5500**
Preparative organic chemistry **VK 5500**
Prescription drugs **VR 6000**
Prescription drugs **VR 7500**
Prescription drugs, advance preparation / pharmacy **VR 6500**
Prescription drugs, storage (depot preparation) / pharmacy **VX 7000**
Prescriptions / pharmacy **VR 6000**
Preservation / foodstuffs **VN 8100**
Preservatives **VN 8100**
Process analysis **VN 8930**
Process control / chemistry **VC 6450**
Process optimisation / chemistry **VC 6450**
Pro-drugs *cf.* Pro-pharmaceuticals
Production process / automation **VC 6450**
Production process / automation **VN 7000**
Programming / chemistry **VC 6080**
Pro-pharmaceuticals **VS 5450**
Prostaglandines **VS 7800**
Prostaglandines **VK 8670**
Proteids **VK 8560**
Proteins **VK 8560**
Psychopharmaceuticals **VS 7150**
Pulverisation **VN 7170**
Purification methods / environmental protection **VN 9330**
Purification methods / technical chemistry **VN 7130**
Purines **VK 8620**
Purity / chemicals *cf.* chemical purity
Pyrolysis **VN 7040**

Q

Qualitative analysis **VG 6000**
Quality controls / glass **VX 8340**
Quality controls / pharmaceutical industry **VX 5500**
Quality standards / glass **VX 8340**
Quality standards / pharmaceuticals **VX 5500**
Quantitative analysis **VG 6100**
Quantitative analysis **VG 6600**
Quantum chemistry **VE 5650**
Quinones **VK 7300**

R

Radiation protection **VB 4170**
Radical <Chemistry> **VK 6000**
Radioactive materials / occupational safety **VB 4170**
Radioactive waste **VN 9250**
Radiochemical analysis **VG 7000**

Radiochemistry **VE 8300**
Radiopharmaceuticals **VS 9400**
Raman spectroscopy **VG 9300**
Rapid tests / chemical analysis **VG 5170**
Reaction kinetics **VE 5800**
Reaction kinetics / chemical process technology **VN 7350**
Reaction mechanisms **VE 5800**
Reaction mechanisms / inorganic chemistry **VH 6000**
Reaction mechanisms / organic chemistry **VK 6000**
Reaction technology **VN 7300**
Reaction time / chemical process technology **VN 7350**
Rectal pharmaceuticals **VX 7060**
Recycled paper **VN 5510**
Recycling **VN 9450**
Redox potentials **VE 6300**
Reflection spectroscopy **VG 9450**
Refractometry **VG 8600**
Refrigeration technology **VN 7240**
Relaxation **VE 5800**
Renewable resources **VN 9500**
Reprints (chemistry-pharmacy) / specific institutions **VC 9000**
Reprints / chemistry / University of Bayreuth **VC 8600**
Reproduction technology **VN 5850**
Reprography **VN 5850**
Research establishment / natural sciences **VB 1700**
Research planning / chemistry **VB 4010**
Research planning / pharmacy **VB 4010**
Respiratory illnesses / medicines **VS 7380**
Rheology / chemistry **VE 5900**
Rotational dispersion **VE 8700**

S

Saccharides *cf.* carbohydrates
Sales catalogues / chemicals **VB 4600**
Sales catalogues / laboratory apparatus **VB 4650**
Salves **VX 7520**
Sampling / analytical chemistry **VG 5170**
Saturated hydrocarbons **VK 7100**
Scientific manuscripts / publication **VB 4400**
Scientific practice / introduction to **VB 4400**
Secondary metabolic products *cf.* secondary metabolites
Secondary metabolites **VK 8500**
Sedimentation / process technology **VN 7180**
Self-organisation / theoretical chemistry **VE 5780**
Semi-solid form of pharmaceuticals **VX 7500**
Sensory organs / pharmaceuticals **VS 7350**
Separation methods / technical chemistry **VN 7120**
Separation of materials mixtures **VN 7180**
Serotonin **VS 7900**
Serotonin antagonist **VS 7900**
Serum / blood *cf.* blood serum
Sex glands *cf.* gonads
Sexual glands *cf.* gonads
SFC **VG 7500**
Shellfish toxins **VT 5600**
SI units **VC 5200**
Sieving <Technology> **VN 7180**
Sintering **VN 7260**
Skin care agents **VS 7350**
Skin disinfectants **VS 8450**
Sleep-inducing drugs **VS 7100**
Smart materials **VE 9850**

Snake toxins **VT 5500**
Soaps **VN 5420**
Software / chemistry **VC 6080**
Soil analysis **VN 9380**
Soil chemistry **VN 9380**
Soil contamination **VN 9380**
Soil / ecological chemistry **VN 9380**
Soil purification **VN 9380**
Solanaceae *cf.* nightshade family
Solar cells **VN 6050**
Solid form of pharmaceuticals **VX 6000**
Solid-state chemistry **VE 9300**
Solid-state reactions **VE 9400**
Solubilisation **VE 7060**
Solutions **VE 7600**
Solutions / pharmaceutical technology **VX 8020**
Sonochemistry *cf.* ultrasonic chemistry
Spectral analysis **VG 8700**
Spectral photometry *cf.* spectrophotometry
Spectrochemical analysis *cf.* spectral analysis
Spectrophotometry **VG 8800**
Spectroscopy **VG 8900**
Spectroscopy / theory **VE 8600**
Spectroscopy / visible range *cf.* VIS spectroscopy
Spice plants **VW 5900**
Spice plants / subtropical **VW 6100**
Spice plants / tropical **VW 6100**
Spices / food chemistry **VN 8200**
Spider toxins **VT 5600**
Standardisation / abbreviations **VB 1025**
Statistics / analytic chemistry **VC 6400**
Statistics / chemistry **VC 6050**
Statistics / pharmacy **VC 6050**
Stereochemistry **VE 9350**
Stereochemistry / inorganic chemistry *cf.* inorganic stereochemistry
Stereochemistry / organic chemistry **VK 5800**
Stereology **VG 6900**
Sterilisation **VX 8300**
Sterilisation <Hygiene> **VX 8600**
Steroids **VK 8540**
Stimulants / food chemistry **VN 8200**
Stimulants / plants **VW 5900**
Stirring **VN 7160**
Stoichiometry **VC 5200**
Storage technology / pharmaceuticals **VR 7000**
Structure-activity relations / biomolecules **VK 8500**
Structure-activity relations / data processing **VC 6280**
Structure-activity relations / pharmaceuticals **VS 5350**
Structure elucidation / organic compounds **VK 5660**
Student guides / chemistry **VB 4048**
Student guides / pharmacy **VR 2650**
Sublimation **VN 7260**
Subtropics / medicinal plants **VW 6100**
Sulfonamides **VS 8600**
Sugar coating / tablets **VX 6060**
Sugars **VK 8580**
Sunscreens **VS 7350**
Suppositories **VX 7060**
Supramolecular structure **VK 7150**
Surface-active materials *cf.* interface-active materials
Surface chemistry **VE 7000**
Surgical suture material *cf.* suture material
Suspension / pharmaceutical technology **VX 8060**

Suture material **VX 8850**
Symmetry / inorganic chemistry **VH 5800**
Symmetry / theoretical chemistry **VE 5700**
Synthesis <Chemistry> *cf.* chemical synthesis
Synthetic fibres *cf.* chemical fibres
Syrups **VX 8080**

T

Tablet coatings **VX 6060**
Tablets **VX 6060**
Tanning **VN 5830**
Tanning agents **VK 8640**
Tanning agents / technical chemistry **VN 5830**
Tannins **VK 8640**
Targeted drug delivery **VX 8560**
Teaching materials / chemistry education **VB 4060**
Teaching materials / chemistry in schools **VB 4060**
Technical chemistry / analytical methods **VN 7500**
Technical chemistry / compilations of exercises **VN 5200**
Technical chemistry / teaching laboratories **VN 5100**
Technical chemistry / textbooks **VN 5010**
Technical drafting **VB 4100**
Technical inorganic chemistry **VN 6000**
Technical microbiology *cf.* industrial microbiology
Technical organic chemistry **VN 5400**
Technology, large-scale / chemistry **VN 7000**
Temperature measurement **VE 9900**
Tensides **VE 7060**
Tensides / organic chemistry **VK 7900**
Teratogenic drugs **VS 5700**
Teratogens / chemicals **VT 5350**
Terminology / chemistry **VB 4200**
Terpenes **VK 8550**
Terpenoids **VK 8550**
Textile chemistry **VN 5900**
Theoretical chemistry **VE 5600**
Theoretical chemistry / data processing **VC 6100**
Theoretical chemistry / mathematics **VC 6100**
Theoretical chemistry / numerical methods **VC 6100**
Theoretical chemistry / textbooks **VE 5010**
Theoretical inorganic chemistry **VH 5700**
Theoretical organic chemistry **VK 5700**
Thermal analysis *cf.* thermoanalysis
Thermal separation methods **VN 7200**
Thermoanalysis **VG 7100**
Thermodynamics **VE 6000**
Thermometry **VG 7100**
Thermomicroscopy **VG 6900**
Thick extract *cf.* extract, thick
Thin-layer chromatography **VG 7300**
Thiocyanates **VK 7400**
Thyreo-calcitonin *cf.* calcitonin
Thyreostatics **VS 7500**
Thyroid / active agents **VS 7500**
Time-release drugs **VX 7000**
Tinctures **VX 8100**
Tissue hormones **VS 7900**
Titrimetry *cf.* quantitative analysis
Topical form of pharmaceuticals **VX 7580**
Toxic materials *cf.* toxins
Toxic plants **VW 6000**
Toxicity **VT 5300**

Toxicity testing **VT 5300**
Toxicological analysis **VT 5300**
Toxicology **VT 5300**
Toxicology / teaching laboratories **VT 5100**
Toxicology / textbooks **VT 5010**
Toxins **VT 5300**
Toxins / invertebrates **VT 5600**
Toxins / vertebrates **VT 5500**
Trace analysis **VG 6800**
Transdermal therapeutic systems **VX 7560**
Transport processes / physical chemistry **VE 5900**
Tribochemistry **VE 9800**
Tritium **VE 8400**
Tropics / medicinal plants **VW 6100**
Tuberculostatics *cf.* antituberculosis agents
Tumours / pharmaceuticals **VS 9100**
Two-dimensional system **VE 9530**

U

Ultracentrifugation **VG 7700**
Ultrared *cf.* infrared
Ultrared spectroscopy *cf.* infrared spectroscopy
Ultrasonic chemistry **VE 5880**
Ultraviolet photoelectron spectroscopy (UPS) **VG 9100**
Ultraviolet spectroscopy **VG 9100**
Unit operations *cf.* basic operations
Unsaturated hydrocarbons **VK 7000**
Urinary tract / pharmaceuticals **VS 8300**
Urine analysis *s.* urine examinations
Urine examinations **VS 5400**
Urine test *cf.* urine examinations
Useful plants **VW 5500**
Useful plants / subtropical **VW 6100**
Useful plants / tropical **VW 6100**
UV spectroscopy *cf.* ultraviolet spectroscopy

V

Vaccines **VS 9000**
Vaginal drug application **VX 7060**
Valuation / pharmacy **VS 5300**
Varicose-vein medicines *cf.* vascular agents
Vascular agents **VS 9400**
Veterinary medicines **VS 9500**
Vibrational spectroscopy **VG 9300**
Virucides **VS 8750**
VIS spectroscopy **VG 9000**
Vitamins **VK 8660**
Voltametry **VG 8130**
Voltammetry **VG 8130**

W

Waste disposal **VN 9400**
Waste dumps **VN 9400**
Waste treatment **VN 9400**
Waste water treatment **VN 9360**
Water analysis **VN 9360**
Water pollution **VN 9360**
Water supplies **VN 9360**
Water supplies / ecological chemistry **VN 9360**
Water supplies, purification **VN 9360**

Water treatment VN 9360

Wax VN 5420

Weed killers *cf.* herbicides

Weight analysis *cf.* gravimetry / chemistry

Wine / food chemistry VN 8200

Wood / chemistry VN 5490

Worm medicines *cf.* anthelmintics, VS 8500

X

Xenobiotics / metabolism VS 5450

X-ray contrast agents *cf.* contrast agents

X-ray spectroscopy VG 8970

X-ray structure analysis VG 9900

Y

Yellow pages *cf.* address books

Z

Zeolites VE 9600