

## Pattern Headings: Chemicals H 1149

**PATTERNS:** Copper; Insulin

**TYPES OF HEADINGS COVERED BY THE PATTERN:** Headings for individual chemicals and groups of chemicals, including drugs. *Examples:* **Aspirin; Boron; Carbon dioxide; DDT (Insecticide); Heavy metals; Iodine; Organofluorine compounds; Polyurethanes; Vitamin C.** The category does not include the heading **Chemicals**. Some overlap exists with the category for materials (H 1158). Headings for individual substances and types of substances such as **Polyethylene** and **Nonferrous metals** should follow the pattern for chemicals when they are discussed from the standpoint of their chemical structure, effects, reactions, etc. They should follow the pattern for materials when they are discussed as basic substances from which something can be made, including their engineering properties, processing, suitability for intended use, etc. Subdivisions having restricted use or needing explanation are explained in endnotes.

**CONFLICTS:** Any subdivision listed here can be used as a free-floating subdivision under any heading belonging to the category if it is appropriate and no conflict exists in the subject authority file. Subject authority records may exist for headings employing variant phrases or subdivisions equivalent to subdivisions on this list.

*LC practice:*

If an exceptional variant form is to be retained, make a UF reference from the equivalent free-floating subdivision form following the procedures in H 195 if the reference does not yet exist. Otherwise, submit a proposal to change the variant form along with all bibliographic records requiring correction following the procedures in H 193.

*Note: Most form subdivisions coded \$v in this list may also be used as topical subdivisions coded \$x when assigned to works **about** the form (see H 1075, sec. 1.d.).*

- \$x Absorption and adsorption (May Subd Geog)
- \$x Acoustic properties (May Subd Geog)
- \$x Administration<sup>1</sup>
- \$x Affinity labeling (May Subd Geog)
- \$x Agonists<sup>2</sup>
- \$x Allergenicity (May Subd Geog)

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- \$x Analysis
- \$x Antagonists<sup>2, 3</sup>
- \$x Assaying<sup>4</sup> (*May Subd Geog*)
- \$x Bioaccumulation (*May Subd Geog*)
- \$x Bioavailability (*May Subd Geog*)
- \$x Biodegradation (*May Subd Geog*)
- \$x Biotechnology (*May Subd Geog*)
- \$x Brazing (*May Subd Geog*)
- \$x Brittleness (*May Subd Geog*)
- \$x Carcinogenicity (*May Subd Geog*)
- \$x Cold working (*May Subd Geog*)
- \$x Coloring
- \$x Conformation
- \$x Controlled release<sup>1</sup> (*May Subd Geog*)
- \$x Corrosion (*May Subd Geog*)
- \$x Creep (*May Subd Geog*)
- \$x Decay
- \$x Decontamination (*May Subd Geog*)
- \$x Denaturation<sup>5</sup>
- \$x Density
- \$x Derivatives<sup>2</sup> (*May Subd Geog*)
- \$x Design<sup>6</sup>
- \$x Development<sup>6</sup> (*May Subd Geog*)
- \$x Diagnostic use (*May Subd Geog*)
- \$x Diffusion rate
- \$x Dipole moments
- \$x Dissolution
- \$x Dose-response relationship
- \$x Economic aspects** (*May Subd Geog*)
- \$x Effect of radiation on (*May Subd Geog*)
- \$x Effectiveness<sup>1</sup> (*May Subd Geog*)
- \$x Electric properties (*May Subd Geog*)
- \$x Electrometallurgy
- \$x Environmental aspects (*May Subd Geog*)
- \$x Evolution (*May Subd Geog*)
- \$x Excretion
- \$x Fatigue (*May Subd Geog*)
- \$x Immunology

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\$x Industrial applications (*May Subd Geog*)  
\$x Inhibitors<sup>2, 7</sup>  
\$x Isotopes<sup>2</sup> (*May Subd Geog*)  
\$x Isotopes \$x Half-life (*May Subd Geog*)  
\$x Law and legislation<sup>8</sup> (*May Subd Geog*)  
\$x Lead content (*May Subd Geog*)  
\$x Magnetic properties (*May Subd Geog*)  
\$x Mechanism of action  
\$x Metabolic detoxification (*May Subd Geog*)  
\$x Metabolism  
\$x Metabolism \$x Age factors (*May Subd Geog*)  
\$x Metabolism \$x Disorders<sup>9</sup> (*May Subd Geog*)  
\$x Metabolism \$x Genetic aspects  
\$x Metabolism \$x Regulation  
\$x Methylation  
\$x Molecular rotation  
\$x Optical properties  
\$x Overdose<sup>6</sup> (*May Subd Geog*)  
\$x Oxidation (*May Subd Geog*)  
\$x Pathophysiology  
\$x Peroxidation  
\$x Permeability  
\$x Pharmacokinetics  
\$x Physiological effect (*May Subd Geog*)  
\$x Physiological transport  
\$x Prices (*May Subd Geog*)  
\$x Properties  
\$x Psychotropic effects<sup>10</sup> (*May Subd Geog*)  
\$x Purification (*May Subd Geog*)  
\$x Quenching (*May Subd Geog*)  
\$x Radioiodination (*May Subd Geog*)  
\$x Reactivity (*May Subd Geog*)  
\$x Receptors  
\$x Receptors \$x Effect of drugs on (*May Subd Geog*)  
\$x Recycling (*May Subd Geog*)  
\$x Religious aspects<sup>15</sup>  
\$x Research (*May Subd Geog*)

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\$x Research \$x Law and legislation<sup>8</sup> (*May Subd Geog*)  
\$x Sampling (*May Subd Geog*)  
\$x Secretion  
\$x Secretion \$x Regulation  
\$x Separation (*May Subd Geog*)  
\$x Side effects<sup>1</sup> (*May Subd Geog*)  
\$x Solubility (*May Subd Geog*)  
\$x Speciation (*May Subd Geog*)  
\$x Spectra  
\$x Stability  
\$x Standards (*May Subd Geog*)  
\$x Structure  
\$x Structure-activity relationships  
\$x Surfaces  
\$x Synthesis  
\$x Synthesis \$x Inhibitors  
\$x Synthesis \$x Regulation  
\$x Testing<sup>11</sup>  
\$x Therapeutic use<sup>12</sup> (*May Subd Geog*)  
\$x Therapeutic use \$x Administration<sup>13</sup>  
\$x Therapeutic use \$x Controlled release<sup>13</sup> (*May Subd Geog*)  
\$x Therapeutic use \$x Effectiveness<sup>13</sup> (*May Subd Geog*)  
\$x Therapeutic use \$x Side effects<sup>13</sup> (*May Subd Geog*)  
\$x Therapeutic use \$x Testing<sup>13</sup>  
\$x Thermal conductivity (*May Subd Geog*)  
\$x Thermal properties (*May Subd Geog*)  
\$x Threshold limit values (*May Subd Geog*)  
\$x Toxicity testing (*May Subd Geog*)  
\$x Toxicology (*May Subd Geog*)  
\$x Toxicology \$x Age factors (*May Subd Geog*)  
\$x Toxicology \$v Biography  
\$x Toxicology \$x Reporting (*May Subd Geog*)  
\$x Transport properties (*May Subd Geog*)  
\$x Vapor pressure (*May Subd Geog*)  
\$x Viscosity<sup>14</sup> (*May Subd Geog*)  
\$x Welding (*May Subd Geog*)

### NOTES

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<sup>1</sup>Not established under **Copper** or **Insulin**. Use only under individual drugs and groups of drugs, for example, **Anesthetics–Administration**; **Antibiotics–Controlled release**; **Analgesics–Effectiveness**; **Thalidomide–Side effects**; **Oral contraceptives–Side effects**. For individual and groups of non-drug chemicals, use **–Therapeutic use–Administration**; **–Therapeutic use–Controlled release**; **–Therapeutic use–Effectiveness**; and **–Therapeutic use–Side effects**.

<sup>2</sup>The subdivisions **–Agonists**, **–Antagonists**, **–Derivatives**, **–Inhibitors**, and **–Isotopes** represent chemicals and may be further subdivided by other subdivisions from this list as appropriate.

<sup>3</sup>Not valid under individual enzymes and groups of enzymes. Use **–Inhibitors** under individual enzymes and groups of enzymes.

<sup>4</sup>Use under types of metals and individual metals for the determination of the quantity or quality of a metal in an ore, alloy, etc., for example, **Precious metals–Assaying**; **Silver–Assaying**.

<sup>5</sup>Use only under individual proteins and groups of proteins.

<sup>6</sup>Not established under **Copper** or **Insulin**. Use only under individual drugs and groups of drugs.

<sup>7</sup>Not established under either **Copper** or **Insulin**. Use only under individual enzymes and groups of enzymes, for example, **Amylases–Inhibitors**; **Monoamine oxidase–Inhibitors**.

<sup>8</sup>See H 1154.5 for further subdivisions used under legal topics.

<sup>9</sup>See the pattern heading list for diseases (H 1150) for further subdivisions which may be used under the subdivision **–Metabolism–Disorders**.

<sup>10</sup>Not valid under types of, or individual, psychotropic chemicals, drugs, or plants (e.g., **Antidepressants**; **Clozapine**; **Opium poppy**)

<sup>11</sup>Use **–Testing** directly under individual drugs and groups of drugs for testing their action, effectiveness, etc. For the testing of other chemicals as drugs, use **–Therapeutic use–Testing**, for example, **Insulin–Therapeutic use–Testing**.

<sup>12</sup>Not valid under the heading **Drugs** and headings for individual drugs and groups of drugs. Use the heading **Chemotherapy** for the therapeutic use of drugs in general. Use unsubdivided headings for individual drugs and groups of drugs for their therapeutic use.

<sup>13</sup>Use only under individual and groups of non-drug chemicals. For individual drugs and groups of drugs, use **–Administration**, **–Controlled release**, **–Effectiveness**, **–Side effects**, and **–Testing** directly under the heading for the drug(s).

<sup>14</sup>Not established under **Copper** or **Insulin**. Use under other chemicals as appropriate.

<sup>15</sup>May be subdivided topically by a religion or Christian denomination. Editorially establish each heading of the type **[chemical]–Religious aspects–[name of religion or denomination]**. For instructions, see H 1998.