## APPENDIX E GLOSSARY

 $\mathbf{A}$ 

acute in animal testing, pertains to administration of an agent in a single dose; not

to be confused with the clinical term for a disease having a short and

relatively severe course

adenocanthoma an adenocarcinoma in which some or the majority of the cells exhibit

squamous (scaly or plate-like) differentiation

<u>adenocarcinoma</u> a malignant tumor arising from the glandular epithelial tissue

<u>adenofibrosis</u> fibroid change in a gland

<u>adenoma</u> a benign neoplasm of glandular epithelial tissue

<u>adenomatoid</u> resembling an adenoma

<u>adenomatous</u> pertaining to adenoma or to nodular hyperplasia of a gland

any disease of the glands [Adenosis of the breast = fibrocystic disease]

adipose tissue fatty tissue

adjuvant therapy therapy involving both a primary therapeutic agent and an additional material

that enhances the action of the primary agent

adrenal cortical

steroids

steroid hormones produced in the cortex of the adrenal gland

<u>adrenal gland</u> a hormone-secreting organ located above each kidney

<u>aerosol</u> a dispersed suspension of fine particles in gas

albino an organism exhibiting deficient pigmentation in skin, eyes, and/or hair

alkaline basic (as opposed to acidic); a material whose index of acidity (pH) is above

7

alkylating agent a substance that causes the incorporation of single-bonded carbon atoms into

another molecule

<u>alveoli</u> usually referring to small, sac-like pouches in the portion of the lungs where

gas exchange with the blood occurs; also, sac-like structures in the jaws

where the teeth arise or in certain glands

ambient air the concentration of a material in air outside of buildings, that is, air to

<u>concentration</u> which the general public is exposed

amenorrhea the absence or abnormal cessation of menstruation

amine an organic compound that may be derived from ammonia (NH<sub>3</sub>) by the

replacement of one or more hydrogen atoms (H) by hydrocarbon groups or other chemical moieties; replacing one, two, or three hydrogen atoms gives primary, secondary, or tertiary amines, respectively; if a fourth group is added to a tertiary amine (R<sub>3</sub>N), the compound formed is called a quaternary

amine (R<sub>4</sub>N<sup>+</sup>) and the nitrogen carries a positive charge

amyloidosis the accumulation of amyloid, an abnormal complex material probably

composed of protein and a carbohydrate, in body tissues

anabolic steroid a synthetic derivative of testosterone, a male sex hormone; used principally

to promote growth and repair of body tissues in senility, debilitating illness,

and convalescence

analgesic a pain-relieving agent that does not cause loss of consciousness

analogue 1. one of two organs or parts in different species of animals or plants that

differ in structure or development but are similar in function

2. a compound that resembles another in structure; may be an isomer, but not

necessarily

analytical grade the highest available purity of a chemical

androgen a substance that enhances masculine characteristics

anemia a condition in which the number of red blood cells or the amount of

hemoglobin in a given volume of blood is less than normal

anesthetic a substance used to prevent the sensation of pain

<u>angiosarcoma</u> a type of malignant tumor containing many fine blood vessels

anionic pertains to an ion that carries a negative charge, e.g., chloride (Cl<sup>-</sup>), sulfate

(SO<sub>4</sub><sup>2</sup>-), and acetate (CH<sub>3</sub>CO<sub>2</sub>-); anions form salts with cations other than H<sup>+</sup>;

the corresponding acids are formed when combined with H<sup>+</sup> ions

ankylosing spondylitis inflammation of the vertebrae, accompanied by inflammation and

degeneration of connective tissue

antibiotic a chemical substance, produced by an organism, which is capable of killing

or inhibiting the growth of other organisms.

anticonvulsant a substance that lessens the severity of convulsions

<u>antiepileptic</u> a substance that lessens the severity of epileptic seizures

anti-inflammatory counteracting or suppressing inflammation, which is characterized by heat,

redness, edema, and pain in the involved part of the body

antimicrobial a substance that kills microorganisms or arrests their multiplication or growth

or otherwise prevents their pathogenic action; microbes include bacteria,

fungi, and protozoa

<u>antineoplastic</u> inhibiting the survival and proliferation of malignant tumors

antioxidant a substance that inhibits chemical oxidation of another material

antipyretic a substance that relieves or reduces fever

antiseptic a substance that inhibits the growth of microorganisms on living tissue

aorta the major artery that carries blood from the heart to be distributed by branch

arteries throughout the body

<u>aplastic anemia</u> a severe form of anemia that is characterized by decreased maturation of stem

cells and is generally unresponsive to therapy

apoptosis cell deletion by fragmentation into membrane-bound particles which are

phagocytosed by other cells

aquaculture the production of food by growing plants or animals in water

aqueous containing water as one component

<u>aromatic hydrocarbon</u> an organic chemical compound formed primarily from carbon (C) and

hydrogen (H) atoms with a structure based on benzene rings AND resembling benzene in chemical behavior; substituents on the rings(s)

may contain atoms other than C or H

<u>arsenical</u> a compound containing arsenic

<u>arterial</u> relating to one or more arteries or to the entire system of arteries

<u>auditory sebaceous</u> a gland that secretes an oily substance and that is located in the inner

gland layer of the ear's skin

autoimmune disease a condition in which one's own body or its components are subject

to deleterious effects of its immune system

autoimmune hemolytic

anemia

anemia that occurs in some autoimmune diseases

<u>azeotrope</u> a mixture of two liquids that boils without change in proportion of

the two liquids, either in the liquid or the vapor phase

<u>azide</u> a compound that contains the monovalent -N<sub>3</sub> group

azo- a prefix denoting the presence in a molecule of the group -N=N- (see

also diazo-)

<u>B</u>

bactericide an agent (e.g., heat, light, or osmotic pressure) or a chemical that kills

bacteria or inhibits their growth

<u>bacteriophage</u> a virus with specific affinity for bacteria

bacteriostat an agent that inhibits the growth of bacteria

barbiturate a drug used as a sedative or hypnotic

benign tumor an abnormal mass of tissue that does not spread and that is not life-

threatening

bile a fluid produced in the liver that helps digest fat

bile duct a tube through which bile passes from the liver to the small intestine

bioaccumulation the process by which a material in an organism's environment

progressively concentrates within the organism

bioassay the determination of the potency or concentration of a compound by

its effect upon animals, isolated tissues, or microorganisms, as

compared with a chemical or physical assay

bioavailability the extent to which an organism will metabolize material, as opposed

to allowing it to pass through unchanged without altering the

organism's physiology

<u>biodegradation</u> biotransformation; the conversion within an organism of molecules

from one form to another, a change often associated with change in

pharmacologic activity

blastocyst an early stage of embryonic development consisting of a ball of

developing cells surrounding a central cavity

<u>blood dyscrasia</u> any abnormal condition of the blood

blood-producing tissue tissues in which blood elements are formed include the red bone

marrow, spleen, liver, and thymus

bowel the intestine, or the part of the digestive tract extending from the

stomach to the anus

<u>breakdown product</u> a chemical derived from a parent compound that has been altered,

usually by heat, light, or enzymes

bronchiole a small division of a bronchus (lung airway)

bronchoalveolar bronchovesicular; relating to the bronchial tubes and alveoli in the

lungs

<u>bronchogenic</u> originating in one of the larger air passages in the lung

buffer a mixture of an acid and its conjugate base that, when present in a

solution, reduces any changes in pH that would otherwise occur in

the solution when acid or alkali is added to it

<u>C</u>

<u>cancer</u> a general term used to indicate any of various types of malignant

neoplasms

carbonization the process of converting an organic compound to carbon or to a

carbonic residue

<u>carcinogen</u> any cancer-producing substance

<u>carcinogenesis</u> the process by which normal tissue becomes cancerous

<u>carcinogenicity</u> the power, ability, or tendency to produce cancerous tissue from

normal tissue

<u>carcinoma</u> a malignant neoplasm of the epithelium

<u>carcinostatic</u> checking the growth of a carcinoma

cardiovascular of, relating to, or involving the heart and blood vessels

catalyze to induce a modification in the rate of a chemical reaction using

material that usually remains unchanged at the end of the reaction

case-control study an investigation in which select cases with a specific diagnosis

(usually cancer) are compared to individuals from the same or related

population(s) without the diagnosis

<u>cation</u> an ion carrying a charge of positive electricity

<u>CBI Aggregate</u> a quantitative range used to identify relative production of chemicals;

though the exact amounts have been disclosed to the Environmental Protection Agency, these are considered confidential business

information and cannot be precisely disclosed

ceiling limit the concentration of a substance that should not be exceeded, even

for an instant

central nervous system

(CNS)

the part of the nervous system consisting of the brain and spinal cord

centromere the point of attachment of the two chromatids of a chromosome

cervix a necklike structure or constriction; most often used to refer to the

neck of the uterus

<u>chelation</u> a complex formation involving a metal ion and two or more polar

groupings of a single molecule; chelation can be used to remove an ion from participation in biological reactions, as in the chelation of

Ca<sup>2+</sup> in blood by EDTA

<u>chemical intermediate</u> a chemical formed or used during the process of producing another

chemical

<u>chemosterilant</u> a chemical compound that causes an organism to become sterile after

exposure to it

<u>chemotherapy</u> the treatment of disease with chemical agents

chirality the property of nonidentity of an object with its mirror image; used

in chemistry with respect to stereochemical isomers; a chiral object

has a mirror image that is different from the original object

<u>cholangiocarcinoma</u> a carcinoma of the bile duct

cholangiocellular of or pertaining to the gallbladder or bile duct

<u>chromatid</u> each of the two strands formed by the duplication of a chromosome

during mitosis or meiosis

<u>chromatin</u> the genetic material of the nucleus, consisting of DNA and nuclear

proteins found in chromosomes

<u>chronic</u> continuing for a long time

circulatory system the system consisting of the blood, blood vessels, lymph vessels, and

heart; involved in circulating blood and lymph throughout the body

cirrhosis a chronic disease of the liver characterized by inflammation, pain, and

jaundice (a yellowishness of the skin)

<u>clastogen</u> an agent capable of causing breakage of chromosomes

<u>climacteric</u> the syndrome of physiological and psychological changes occurring

at menopause

<u>clitoral gland</u> a small, elongated, erectile body situated at the front of the vulva

(external parts of female sexual organs)

clone a colony or group of organisms, or a colony of cells derived from a

single organism or cell by asexual reproduction, all having identical

characteristics

coagulant an agent that causes, stimulates, or accelerates coagulation, especially

with reference to blood

<u>coagulate</u> to convert a fluid or a substance in solution into a solid or gel

<u>coagulative</u> coagulation

<u>coal distillation</u> the separation of the components of coal by gradually increased

heating and removal of the components as they gasify at different

boiling point

<u>cocarcinogenic</u> an agent that is not carcinogenic itself, but enhances the activity of

another agent that is carcinogenic

codon a sequence of three nucleotides in a strand of DNA or RNA that

provides genetic code information for a specific amino acid

<u>cohort studies</u> a study of a group of people matched against a second group similar

to it except for one factor (usually the suspected cause of a disease)

colon the part of the large intestine extending from the cecum (pouch in

which the large intestine begins) to the rectum (terminal portion of

the digestive tube)

<u>colorectal</u> relating to the colon and rectum, or to the entire large bowel

commercial grade less than the purest available form of a chemical; the purity normally

produced for and adequate for commercial uses

congenital existing from birth

conjugated bound together; in organic chemistry, conjugated refers to a molecular

structure or substructure containing alternating double and single

bonds between pairs of adjacent atoms

conjunctiva the membrane that lines the eyelid and covers part of the eyeball

<u>connective tissue</u> a tissue that connects, supports, or surrounds other tissues or organs

contaminant an impurity; in the environment, a chemical that is not ordinarily

present and that may have deleterious effects

copolymer a chemical (polymer) made up of repetitive subunits (monomers) that

are not all alike

<u>corpus uteri</u> the main part of the uterus

<u>corticosteroids</u> adrenal cortex hormones

cross-linking the extension of chemical bonds in more than one direction (not just

linearly); serves to strengthen polymers

<u>cystitis</u> an inflammation of the urinary bladder

cytochrome a class of hemoprotein whose principal biological function is electron

and/or hydrogen transport

cytology the study of cells, their origin, structure, function, and abnormalities

cytomegalic denoting or characterized by markedly enlarged cells

cytometry the counting of cells, especially blood cells, using a cytometer or

hemocytometer

<u>cytotoxic</u> having a poisonous effect on cells

<u>D</u>

DL- used separately, prefixes of D- for dextrorotary (rotated to the right)

and L- for levorotary (rotated to the left) before the same chemical name refer to designations for optically active isomers that are chemically identical but that rotate plane polarized light in opposite directions; the isomers are mirror images of each other; when used together, DL-designates a racemic mixture of the two isomers, whose

optical activities cancel each other

defoliant a chemical spray or dust that causes leaves to drop off plants

prematurely

<u>dermal penetration</u> the act of entering the body by penetrating the layers of the skin

<u>dermatitis</u> an inflammation of the skin

dermatomycosis a superficial infection of the skin by fungi

<u>dermatomyositis</u> an inflammation of the skin, subcutaneous tissue, and muscles,

involving death of muscle fibers

dermis the sensitive inner layer of the skin

<u>desiccator</u> in the laboratory, a heavy glass container from which moisture is

removed by vacuum or chemicals

diabetes a disease in which the body's ability to use sugar is impaired and

which usually involves the abnormal appearance of sugar in the

urine; characterized by excessive urination

diamine an organic compound containing two amine groups, e.g.,

ethylenediamine, H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>

<u>diazo-</u> a prefix denoting a compound containing the -N'N- or -N $\equiv$ N<sup>+</sup> group

(see also azo-)

dimer a compound or unit produced by the combination of two like

molecules

distant tumor a tumor located far from the point at which abnormal growth

originated

<u>distillation</u> the separation or purification of the components of a material by

gradually increased heating and removal of the components that

gasify at different boiling points

<u>dose-response</u> a relationship between several doses or concentrations of a chemical,

relationship biological, or physical agent to which an organism is exposed and the

degree of the desired or other monitored effect

<u>duodenum</u> the first division of the small intestine; about 25 cm in length

dysfunctional uterine

bleeding

abnormal bleeding of the uterus

<u>dysplasia</u> abnormal tissue development

 $\mathbf{\underline{E}}$ 

eczema an inflammation of the outer layer of skin, characterized by redness,

itching, crusting, and scaling

edema an accumulation of an excessive amount of watery fluid in cells,

tissues, or serous cavities

effluent wastewater discharged from a treatment plant, sewer, or industrial

outfall into the environment, usually to surface waters

<u>electrolyte</u> a substance, such as sodium chloride (NaCl), that dissociates into ions

when fused (melted) or in solution, thereby becoming capable of

conducting an electric current

<u>electrophile</u> the electron-attracting atom or agent in an organic reaction

<u>electrophilic</u> relating to an electrophile

<u>emulsifier</u> an agent that causes the dispersion of one insoluble fluid within

another

<u>endogenous</u> originating within an organism

<u>endometrium</u> the mucous membrane lining of the uterus

<u>end use</u> the final intended purpose for a chemical or an item

<u>Entamoeba histolytica</u> a microorganism that causes disease, particularly of the digestive tract

enteritis a chronic inflammatory disease involving any part of the

gastrointestinal tract, especially the small intestine

environmental fate the distribution and transformation of a chemical from its first release

until its ultimate removal from or recycling through the environment

enzyme a protein produced in organisms capable of accelerating a particular

biochemical reaction; a biological catalyst

ependymoblastoma a malignant tumor composed of primitive ependymal cells; tumor

classified as a malignant ependymoma by some pathologists; the ependyma membrane lines the ventricles of the brain and the central

canal of the spinal cord

<u>epidemiology</u> a science concerned with the occurrence and distribution of disease

in populations

epidermis the outer layer of skin

<u>epilepsy</u> a neurological disease usually characterized by seizures involving

convulsions and loss of consciousness

<u>epineuroendothelioma</u> a tumor originating from the endothelium and situated upon a neural

arch

<u>epithelial</u> relating to or consisting of epithelium

<u>epithelium</u> the tissue that covers internal and external surfaces of the body

<u>erythroblast</u> a term denoting all forms of human red blood cells containing a

nucleus

<u>erythroblastemia</u> the presence of nucleated red cells in the peripheral blood

<u>erythroblastopenia</u> a primary deficiency of erythroblasts in bone marrow; seen in aplastic

anemia

erythroblastosis the presence of many erythroblasts in blood

<u>erythrocyte</u> red blood cell or corpuscule; a mature red blood cell

<u>esophagus</u> the passage through which food travels from the throat to the stomach

<u>estrogen</u> any of a group of female sex hormones

estrogen-responsive

<u>tissues</u>

those tissues affected by the presence of estrogens

estrus the cycle of changes in the genital tract; produced as a result of

ovarian hormonal activity

eukaryote an organism whose cells contain a limiting membrane around the

nuclear material and which undergoes mitosis

<u>eukaryotic</u> pertaining to a eukaryote

<u>Ewing's sarcoma</u> a malignant tumor of the bone marrow, accompanied by pain and

fever

<u>exogenous</u> originating outside the organism

F

feedstock the raw material supplied to a processing plant for use as the

beginning chemicals for reactions that eventually create an end

product

<u>fibroadenoma</u> a benign neoplasm that contains fibrous tissue

fibrocarcinoma a carcinoma with a hard structure due to the formation of dense

connective tissue

<u>fibroma</u> a benign neoplasm composed mainly of fibrous or connective tissue

<u>fibrosarcoma</u> a malignant neoplasm derived from fibrous connective tissue

<u>flammable</u> that which will burn readily or continuously

<u>flocculation</u> precipitation from solution in the form of fleecy masses; the process

of becoming flocculent

follicular cell a modified epithelial cell that secretes fluid

<u>forestomach</u> a nonglandular section of the stomach in certain mammals (e.g., rats

and mice); not found in humans

fumigant a pesticide in vapor or gaseous form used to kill pests or disinfect

materials

fungicide a pesticide used to control, prevent, or kill fungi

<u>fungistatic</u> inhibiting the growth of fungi

fungus a lower plant that feeds on other organic matter and lacks the

chlorophyll and tissue differentiation of higher plants

 $\mathbf{G}$ 

gallbladder a reservoir for bile; located near the liver

gastric (stomach) in research, the insertion of a tube through the mouth into the stomach

<u>intubation</u> of test animals to administer a substance under study; also called

gavage and oral intubation; in larger animals and human medical patients, a gastric tube can also be inserted through a nasal passage

to administer or withdraw substances from the stomach

gastrointestinal the part of the digestive system composed of the stomach and

tract intestine

gavage in animal experiments, the introduction of material through a tube

passed through the mouth into the stomach

gene a unit of hereditary information; the portion of a DNA molecule

which contains, coded in its nucleotide sequence, the information required to determine the amino acid sequence of a single

polypeptide chain

genitourinary pertaining to the genital and urinary organs

genotype genetic constitution of an individual

geothermal of or relating to the heat of the earth's interior surface

germ cells cells which give rise to the male and female gametes (the sperm and

ova)

gestation pregnancy; in mammals, the period during which the young develops

between the egg's fertilization and birth

<u>Giardia lamblia</u> a microorganism causing gastrointestinal infection in humans

gland an aggregation of cells, specialized to secrete or excrete certain

biologically important materials

glandular stomach the portion of the stomach in which the gastric juices are secreted

glioma any neoplasm derived from one of the various types of cells that form

the interstitial tissue of the brain, spinal cord, pineal gland, posterior pituitary gland, and retina; e.g., astroblastoma, astrocytoma, glioblastoma multiforme, ganglioglioma, spongioblastoma polare,

medulloblastoma, ependymoma, oligodenroglioma, etc.

gliosarcoma a glioma consisting of immature, undifferentiated, pleomorphic,

spindle-shaped cells with relatively large, hyperchromatic, frequently bizarre nuclei and poorly formed fibrillary processes; sometimes used as a term for a malignant neoplasm derived from connective

tissue in which there are proliferating glial cells

glomerulonephritis a disease characterized by inflammation of blood vessels in the

kidneys

gonadal dysgenesis impaired development of the gonads

grand mal epilepsy an extreme form of epilepsy, with seizures involving loss of

consciousness and generalized convulsions

granulocyte a mature granular leukocyte

<u>H</u>

<u>half-life</u> the time required for a substance to be reduced to one-half its present

value through degradation or through elimination from an organism hamartoma a focal malformation that resembles a neoplasm, grossly and even

microscopically, but results from faulty development in an organ; it is composed of an abnormal mixture of tissue elements, or an abnormal proportion of a single element, normally present in that site, which develop and grow at virtually the same rate as normal components, and are not likely to result in compression of adjacent

tissue (in contrast to neoplastic tissue).

hard palate the bony front portion of the partition separating the mouth from the

nasal cavity

harderian glands in some animals, accessory tear glands excreting a fluid that facilitates

movement of the third eyelid, an extra fold of skin in the eye

<u>hemangioendothelioma</u> a hemangioma principally composed of endothelial cells

hemangioendotheliosarcoma a hemangiosarcoma—a malignant tumor formed by proliferation of

endothelial and fibroblastic tissue

<u>hemangioma</u> a benign tumor made up of newly-formed blood vessels

hemangiosarcoma a rare malignant neoplasm composed of cells from connective tissue

and endothelial cells from blood vessels

hematopoietic pertaining to or affecting the formation of blood cells

heme the prosthetic, oxygen-carrying, color-furnishing constituent of

hemoglobin

hemoglobin the red, respiratory protein of erythrocytes; transports oxygen from

the lungs to the tissues

hepatic pertaining to the liver

hepatitis an inflammation of the liver

<u>hepatocarcinoma</u> hepatocellular carcinoma

<u>hepatocellular</u> pertaining to cells of the liver

<u>hepatocyte</u> a parenchymal liver cell

<u>hepatoma</u> a tumor of the liver

<u>herbicide</u> an agent that is destructive to plants

heteroplasia the development of cytologic and histologic elements that are not

normal for the organ or part in question, as the growth of bone in a site where there is normally fibrous connective tissue; see also

metaplasia

histology the branch of anatomy that deals with microscopic structure,

composition, and function of tissues

histoma histoma; a benign neoplasm in which the cytologic and histologic

elements are closely similar to those of normal tissue from which the

neoplastic cells are derived

<u>histopathogenesis</u> abnormal embryonic development or growth of tissue

Hodgkin's disease a lymph system cancer characterized by painless, progressive

enlargement of the lymph nodes, spleen, and general lymphoid

tissues

hormone any of various chemical substances that are produced by the endocrine

glands and that have specific regulatory effects on the activity of

certain organs

hydrolysis a chemical process whereby a compound is cleaved into two or more

simpler compounds with the uptake of the H and OH parts of a water

molecule on either side of the chemical bond cleaved

hydrolyze to subject to hydrolysis

<u>hydroxyl</u> the atom group or radical, OH

<u>hydroxylation</u> the placing of a hydroxyl group on a compound in a position where

one did not exist before

<u>hyperplasia</u> an increase in the size of a tissue or organ due to an increased number

of cells

<u>hyperthyroidism</u> excessive activity of the thyroid gland and the resultant pathological

condition characterized by increased metabolism, enlargement of the

thyroid gland, rapid heart rate, and high blood pressure

<u>hypnotic</u> sleep-inducing; also, a drug that induces sleep

hypogonadism a condition resulting from or characterized by abnormally decreased

(hypogenitalism) functional activity of the gonads, with retardation of growth and

sexual development

<u>hypotensive</u> causing a decrease in blood pressure

I

<u>ignitable</u> capable of causing a fire or of burning; hazardous wastes in this

RCRA category (D001) include liquids with flash points less than 60°C (140°F) (closed cup method); solids capable of causing fire through friction, absorption of moisture, or spontaneous chemical changes and which burn vigorously and persistently; chemical oxidizers; or ignitable compressed gases as defined in 49 CFR

173.300

<u>ileum</u> the third portion of the small intestine, about 12 feet long, extending

from the junction with the jejunum to the ileocecal opening

immunosuppression artificial prevention or diminution of the [natural] immune response,

e.g., by irradiation or by administration of substances such as pharmaceutical antimetabolites or specific antibodies to prevent sensitization; immunosuppression or immunodeficiency may also be used to describe the condition of acquired or congenital lowered

immune response

implantation the insertion of a mass of material into an organism at a fixed site

from which the mass does not move except by dissolving in the body

fluids

<u>incidence</u> the number of new cases of a disease in a population over a period

of time

<u>inhalation</u> the drawing of air or other substances into the lungs

initiator a chemical that permanently alters a cell or group of cells and, in the

case of carcinogens, is tumor-producing

injection site the site, usually in the skin, at which an agent is injected into an

organism; this site may exhibit effects resulting from exposure to the

agent combined with tissue injury from the injection syringe

inorganic pertaining to materials or chemicals that do not contain carbon (for

instance, glass or table salt)

incapable of being dissolved in a particular solvent insoluble

the rind, capsule, or covering of any body or part <u>integument</u>

an enveloping layer (as a skin or membrane) of an organism or of one integumentary system

of its parts

intra-abdominal within the abdomen (the portion of the body between the chest cavity

and the pelvis)

intrabronchial situated or occurring within a bronchus (a division of the respiratory

tract that leads into the lung)

intragastric within the stomach

intramedullary the innermost part of an organ or structure, for instance, the inner

portion of the spinal cord, the medulla oblongata of the brain, or the

marrow of a bone

intramuscular (i.m.)

injection

an injection into muscle tissue

intraperitoneal (i.p.)

injection

an injection into the abdominal cavity, which is lined with the

peritoneal membrane

intrapleural within the pleura, a membrane that secretes fluid, envelops the lungs,

and lines the walls of the cavity containing them

intratracheal within the trachea (windpipe)

intravenous (i.v.)

injection

an injection into a vein

within membranes or fluid-filled pouches (such as the urinary bladder intravesicular

or the alveoli)

within the uterus in utero

<u>invasive</u> spreading beyond specific body tissues

<u>iron deficiency anemia</u> anemia that is characterized by low or non-existent iron stores and

low concentrations of iron in the blood and that has such symptoms as pallor, mouth sores, digestive difficulties, and thin, brittle nails

isochromosome a chromosomal aberration, occurring during meiosis, in which two

daughter chromosomes are formed, each lacking one chromosome

arm but with the other doubled

<u>isoenzyme</u> see isozyme

isomer one of two or more variations of a chemical, each of which has the

same chemical formula but a different structural arrangement

isozyme one of a group of enzymes that are very similar in catalytic properties,

but may be differentiated by variations in physical properties

<u>J</u>

jaundice a yellowish staining of the integument, sclerae (whites of the eyes),

and deeper tissues and the excretions with bile pigments, which are

increased in the serum

jejunum the portion of small intestine, about 8 feet in length, between the

duodenum and ileum

<u>K</u>

Kaposi's sarcoma a multifocal malignant or benign neoplasm of primitive vasoformative

(relating to the formation of blood or lymphatic vessels) tissue,

occurring in the skin and sometimes in lymph nodes or viscera

 $\underline{\mathbf{L}}$ 

labile refers to the ability of a particular complex ion to participate rapidly

in reactions that result in replacing one or more ligands in its coordination sphere; opposite is inert; "inert" and "labile" are not to be confused with "stable" and "unstable" which refer to the thermodynamic tendency of chemical species to exist under

equilibrium conditions

lactation the secretion of milk

<u>laminating</u> separating or arranging in layers

large intestine the lower portion of the intestine; a membranous tube extending from

the small intestine to the anus

<u>laryngeal cancer</u> cancer of the larynx

<u>larynx</u> the upper end of the trachea (windpipe); the "voicebox"

latency period a seemingly inactive period, as that between the exposure of tissue

to an injurious agent and a manifest response; often used to identify the period between exposure to a carcinogen and development of a

tumor

leiomyoma a benign tumor derived from smooth muscle, most commonly of the

uterus

<u>leiomyosarcoma</u> a malignant tumor containing cells of smooth muscle, most commonly

of the uterus or retroperitoneal region

<u>leukemia</u> a cancer of the blood-forming tissues that is characterized by a marked

increase in the number of abnormal white blood cells (leukocytes)

leukemogenic causing leukemia, an acute or chronic disease characterized by an

abnormal number of leukocytes or the presence of abnormal

leukocytes

<u>ligand</u> any molecule or ion that binds to the surface of a protein by

noncovalent bonds

linear dose response a consistent increase in biological response as increasing quantities

of a test substance are administered

<u>lipid</u> any of various fats or waxes, which, along with proteins,

carbohydrates, and nucleic acids, form the principal constituents of

living cells

lupus erythematosus a chronic inflammation of the skin, characterized by scales that leave

scars

<u>lymph</u> a clear liquid that is collected from the tissues throughout the body

and that flows in lymphatic vessels

<u>lymphatic</u> a small sac or node in which lymph is stored; pertaining to the lymph,

lymph nodes, or vascular channels that transport lymph to the lymph

nodes

lymphocytic leukemia a leukemia associated with overactivity of the lymphoid tissue

<u>lymphoid</u> resembling lymph or lymphatic tissue

<u>lymphoma</u> a neoplasm of the lymphatic tissue

<u>lymphopoietic</u> relating to the formation of lymph

lymphoreticular pertaining to the proliferation of the reticuloendothelial cells of the

lymph glands

lymphosarcoma any of various malignant neoplastic disorders of lymphoid tissue,

excluding Hodgkin's disease

<u>M</u>

<u>malignant</u> tending to become progressively worse; life-threatening

<u>mammary</u> pertaining to the breast

marmoset a soft-furred, clawed monkey found in South and Central America

mastodynia a pain in the breast

mastomys a small rodent used in certain laboratory experiments

mediastinum the mass of tissues and organs separating the two lungs, the heart and

its large blood vessels, the trachea, esophagus, thymus, lymph nodes,

and other structures

meiosis process of cell division that results in the formation of gametes,

consisting of two nuclear divisions in rapid succession that result in the formation of four gametocytes each containing half the number

of chromosomes found in somatic cells

melanocyte pigment cell of the skin

melanocytoma a neoplasm or hamartoma composed of melanocytes

melanoma a neoplasm derived from cells that are capable of forming the pigment

melanin

<u>menopause</u> the cessation of menstruation

mesenchymoma a mixed mesenchymal tumor composed of  $\geq 2$  cellular elements not

commonly associated, not counting fibrous tissue as one of the

elements

mesentery in the lining of the abdominal cavity, a fold that attaches the small

intestine to the posterior abdominal wall by which the viscera are

supported

mesothelioma a neoplasm derived from cells lining the chest or abdominal cavities

meta- in chemistry, a prefix denoting that a compound is formed by two

substitutions in the benzene ring separated by one carbon atom, i.e., linked to the first and third, second and fourth, etc., carbon atoms of

the ring; usually abbreviated m-

metabolism the process in which absorbed foods are broken down to release

energy or in which absorbed nutrients are used to construct different

compounds to be used structurally or in chemical reactions

metabolite a substance produced by metabolism

metaplasia the abnormal transformation of an adult, fully differentiated tissue of

one kind into a differentiated tissue of another kind; metaplasia is an

acquired condition, in contrast to heteroplasia

metastasis the appearance of a neoplasm in a part of the body remote from the

site of its origin

microbe a microorganism; microbes include bacteria, fungi, and protozoa

microglioma an intracranial neoplasm of microglial cell origin that is structurally

similar to reticulum cell sarcoma

microsome one of the small spherical vesicles derived from the endoplasmic

reticulum after disruption of cells by centrifugation

microtubule a cylindrical cytoplasmic element 200 to 270 Å in diameter and

variable in length; microtubules increase in number during mitosis and meiosis, and occur widely in plant and animal cells, where they may be related to movement of the chromosomes or chromatids on

the nuclear spindle during nuclear division

miscible capable of being mixed without separation into distinct components

<u>mitosis</u> process of cell reproduction consisting of a sequence of modifications

of the nucleus that result in the formation of two daughter cells with exactly the same chromosome and DNA content as that of the

original cell

monoclonal in immunochemistry, pertaining to a protein from a single clone of

cells, all molecules of which are the same

monogenic relating to a hereditary disease or syndrome, or to an inherited

characteristic, controlled by alleles at a single genetic locus

<u>monomer</u> a chemical subunit that is joined to other similar subunits so as to

produce a polymer

multiple myeloma a malignant neoplasm derived from plasma cells and found at several

locations in the body

<u>multiple sclerosis</u> a disease characterized by loss of the sheaths surrounding the nerves

throughout the central nervous system; symptoms include weakness,

lack of coordination, and speech problems

<u>mutagen</u> any agent that causes the production of a mutation

mutagenicity the capability to induce mutation, or permanent change, in genetic

material

myasthenia gravis a neurological disorder causing muscular weakness and fatigue,

especially in the face, eyes, lips, tongue, throat, and neck

mycosis fungoides a rare, chronic, malignant, lymphoreticular neoplasm, first of the skin

and in later stages of the lymph nodes and internal organs

myelocytic leukemia a leukemia arising from cells in the bone marrow

myeloid pertaining to, derived from, or manifesting certain features of the bone

marrow; sometimes used with reference to the spinal cord

<u>myeloma</u> a tumor composed of cells normally found in the bone marrow

N

<u>nasal turbinates</u> the convoluting supportive structure of the nose

necropsy the examination of the dead body of an animal by dissection so as to

detail the effects of the disease

necrosis the pathologic death of one or more cells, or of a portion of tissue or

organ, resulting from irreversible damage

neonatal relating to or affecting the first four weeks after birth

neoplasia the process that results in the formation and growth of a tumor

<u>neoplasm</u> any new and abnormal growth; neoplasms may be either benign or

malignant

<u>nephroblastoma</u> see Wilms' tumor

<u>nephrotic syndrome</u> a condition characterized by swelling, excessive proteins in the urine,

and extreme susceptibility to infections

<u>neoplastic</u> pertaining to or like any new or abnormal growth

<u>neural</u> pertaining to the nerves

neuroblastoma a malignant tumor of the nervous system

neuroepithelioma a rare type of glioma (usually of the retina); the neoplastic cells

resemble primitive forms that develop into specialized sensory epithelium or the cerebrospinal axis; histologically is similar to a

medulloepithelioma

neurogenic originating in the nervous tissue; forming nervous tissue

neurosarcoma an old, general term for a malignant neoplasm derived from cells of

the nervous system

<u>nodule</u> a swelling or protuberance

<u>nuclease</u> general term for enzymes that catalyze the hydrolysis of nucleic acid

into nucleotides or oligonucleotides by cleaving phosphodiester

linkages

nucleic acid a polymer of nucleotides in which the phosphate of one of the

repeating nucleotide subunits is linked to the sugar of the adjacent one; functions in the storage and transmission of genetic information; found in chromosomes, nucleoli, mitochondria, and

cytoplasm of all cells and in viruses

<u>nucleolus</u> a small, rounded mass within the cell nucleus where ribonucleoprotein

is produced

nucleotide the molecular subunit of nucleic acids; consists of a purine or

pyrimidine base, a sugar, and phosphoric acid

<u>nucleus</u> a large spherical or oval, membrane-bound cell organelle present in

most cells; contains most of the cell's DNA and some of its RNA

<u>O</u>

<u>oat cell carcinoma</u> a type of lung cancer

off-gassing the release of gaseous chemicals from a solid material

olfactory nerves the nerves associated with the sense of smell

oncogenes genes associated with cancer; malignant transformation of tissue

appears to be associated with either the turning-on of these genes or an increase in the rate at which they form their specific proteins

oncogenicity the capacity to induce tumors

oncotherapy treatment of tumors

oocyte the immature ovum

open vessel operations industrial processes in which reacting materials are mixed in

containers that are not closed

oral administration administration of a drug or test substance via the mouth

oral cavity the space which includes the mouth, cheek, palate, teeth, and tongue

organic in chemistry, relates to the chemistry of the compounds of carbon

<u>oropharynx</u> a division within the tube connecting the mouth and nasal passages

to the esophagus

ortho- in chemistry, denoting that a compound has two substitutions on

adjacent carbon atoms in a benzene ring; usually abbreviated o-

<u>osteogenesis</u> the formation or development of bones

<u>osteoporosis</u> an abnormal loss of bone substance

<u>ovariectomy</u> surgical removal of one or both ovaries

one of the two female reproductive organs in which eggs are formed

<u>ovulation</u> the discharge of an egg from an ovary

ovum the female sex cell

oxidant the substance that is reduced and that, therefore, oxidizes the other

component of an oxidation-reduction system

oxidase one of a group of enzymes now termed oxidoreductases that bring

about oxidation by the addition of oxygen to a metabolite or by the

removal of hydrogen or of one or more electrons

oxidation the act of combining or causing to combine with oxygen or to lose

electrons

oxidize oxygenize; to combine or cause an element or radical to combine with

oxygen or to lose electrons

<u>P</u>

palate the partition separating the nasal and oral cavities

pancreas a large gland behind the stomach that secretes both hormones and

enzymes involved in digestion and metabolism

papilloma a benign tumor derived from epithelial tissue

<u>para-</u> in chemistry, a prefix designating two substitutions in the benzene

ring arranged symmetrically, i.e., linked to opposite carbon atoms in

the ring; usually abbreviated p-

<u>paranasal</u> alongside the nose

parathyroid gland any one of four small glands situated beside the thyroid gland

parenchyma the distinguishing or specific cells of a gland or organ, contained in

and supported by the connective tissue, framework, or stroma

parenteral not through the alimentary (food) canal, but any subcutaneous,

intramuscular, or intravenous injection

<u>Parkinson's syndrome</u> a neurological disease characterized by muscular rigidity, tremor, and

salivation

<u>particulate</u> fine liquid or solid particles such as dust, smoke, mist, fumes, or smog

suspended in air or atmospheric emissions

<u>pathologist</u> an expert in pathology

pathology the study of the nature of diseases, especially of the structural and

functional changes in body tissues, organs, or fluids caused by

disease, physical and biological agents, and toxic substances

peliosis a disorder characterized by purplish or brownish red discoloration that

can be seen through the skin and is caused by hemorrhage

pelvis the lower portion of the trunk of the body, bounded anteriorly and

laterally by the two hipbones and posteriorly by the sacrum and coccyx. Also, the funnel-shaped part of the kidney leading into the

ureter

<u>percutaneous absorption</u> absorption through the skin

pericardium the sac surrounding the heart and large blood vessels leading to and

from it

perinatal of, involving, or occurring during the period closely surrounding the

time of birth

perithecium in fungi, a flask-shaped ascocarp, one of the many shapes that bear

asci and ascospores, and that are used as an aid in identifying a

fungus; plural perithecia

<u>peritoneum</u> the lining surrounding the abdominal cavity and containing the viscera

(internal organs in the body's trunk)

permissible exposure PELs are time-weighted average (TWA) air concentrations that must

limit (PEL) not be exceeded during any 8-hour work shift of a 40-hour work week

as defined by OSHA regulations

<u>peroxidases</u> enzymes in animal and plant tissues that catalyze the dehydrogenation

(oxidation) of various substances in the presence of hydrogen peroxide, which acts as a hydrogen acceptor, being converted to

water in the process

peroxide that oxide of any series that contains the greatest number of oxygen

atoms; applied most correctly to compounds containing an

-O-O-link, as in hydrogen peroxide (H-О-О-Н)

peroxy- prefix denoting the presence of an extra o atom, as in peroxides,

peroxy acids (e.g., hydrogen peroxide, peroxyformic acid)

pesticide as defined by the Federal Insecticide, Fungicide and Rodenticide Act

(FIFRA), a pesticide includes "any substance or mixture of substances intended for preventing, killing, repelling, or mitigating any pest, and any substance or mixture of substances intended for use

as a plant regulator, defoliant, or desiccant"

petroleum distillate a material produced by a combination of vaporization and

condensation of petroleum

pH a numeric scale of acidity and alkalinity, ranging from 0 to 14, that

expresses the negative logarithm of the hydrogen ion concentration

phagocyte carrier or scavenger cell; a cell possessing the property of ingesting

bacteria, foreign particles, and other cells

phagocytosis the process of ingestion and digestion by cells of solid substances,

such as other cells, bacteria, bits of necrosed tissue, or foreign

particles

pharmacokinetics movements of drugs within biological systems, as affected by uptake,

distribution, elimination, and biotransformation

pharmacology the science concerned with drugs, their sources, appearance,

chemistry, actions, and uses

<u>pharynx</u> the passage between the mouth and nose and the esophagus

phenotype in genetics, a category or group to which an individual may be

assigned on the basis of one or more characteristics observable clinically or by laboratory means that reflect genetic variation or gene-environment interaction. A phenotype may include more than

one genotype

pheochromocytoma pheochromoblastoma; a neoplasm, usually benign, derived from cells

in the adrenal medullary tissue

<u>phlebotomy</u> the incision of a vein for the letting of blood

<u>photodecomposition</u> chemical breaking down by means of light

<u>photosensitizers</u> substances that sensitize an organism, cell, or tissue to light

<u>physiological saline</u> a salt solution in water with properties similar to those of body fluid

pituitary gland a small gland at the base of the brain that secretes several important

hormones

placenta the organ in most mammals that connects the fetus with the mother's

uterus

plant extract material recovered from a plant usually by subjecting the plant to

treatment(s) with a solvent such as water, alcohol, or ether

plasma the fluid part of blood or lymph, as distinguished from suspended

material

plasmid extrachromosomal element

platelet an irregularly shaped disk found in blood, containing granules in the

central part and, peripherally, clear protoplasm, but no definite nucleus; it is about one-third to one-half the size of an erythrocyte,

and contains no hemoglobin

pleura pertaining to the membrane surrounding the lungs and lining the chest

cavity

polyclonal in immunochemistry, pertaining to proteins from more than a single

clone of cells

polycyclic containing more than one benzene ring in a condensed form

polycythemia vera a disease characterized by an absolute increase in red cell mass and

total blood volume

polymer a chemical formed by the joining together of similar chemical

subunits

polyp a protruding growth, from mucous membrane

porphyria a disorder of pigment (porphyrin) metabolism characterized by

increased excretion of porphyrins, and occasionally sensitivity to

sunlight

porphyrins pigments widely distributed throughout nature (e.g., heme, bile

pigments, cytochromes)

positive control in an experiment, an agent known to have a positive effect and used

as a standard for measuring a tested substance's effect

<u>postmenopausal</u>

osteoporosis

the development after menopause of enlarged spaces in the bones

postpartum occurring after childbirth

prenatal existing or occurring before birth

prepuberty the period prior to first being capable of sexual reproduction

primary cancer the original cancer developed in an organism

primate any of an order of mammals including man, the apes, monkeys, and

related forms

<u>prokaryote</u> a microorganismal cell that lacks mitochondria; its genome seems to

consist of a single large molecule of DNA not enclosed within a membrane, and it does not undergo mitosis during replication

<u>promoter</u> a chemical that, though not carcinogenic itself, serves to dramatically

potentiate the effect of a low dose of a carcinogen

promyelocytic the developmental stage of a granular leukocyte between the

myeloblast and myelocyte

prostate a gland in males that surrounds the neck of the urinary bladder and

the urethra and secretes a milky fluid that is discharged at the time

of emission of semen

prostatitis an inflammation of the prostate gland

psoriasis a chronic, hereditary, recurrent skin disease characterized by bright

red elevations covered with silvery scales

<u>pulmonary</u> pertaining to the lungs

pyelonephritis inflammation of the kidneys and their pelves

<u>pyrolysis</u> decomposition of a substance by heat in the absence of air

Q

quaternary in chemistry, the term describes a substance with four chemical

groups attached to a central atom; when the central atom is a trivalent nitrogen atom (N), adding the fourth group places a positive charge on N; compounds thus formed are called quaternary

ammonium compounds

<u>R</u>

racemate a mixture of equal parts of isomers of opposite rotation

racemic denoting a mixture that is optically inactive, being composed of an

equal number of dextro- and levorotary substances (see DL-), which

are separable

<u>radioactive</u> having the property of emitting radiation (such as alpha, beta, or

gamma rays) from an atomic nucleus

radiotherapy the treatment of disease by means of radioactive emissions or

materials

remission a diminution or abatement of the signs or symptoms of a disease

<u>renal</u> pertaining to the kidney

reportable quantity (RQ) under CERCLA, the quantity of a hazardous substance that triggers

mandatory immediate reports to the National Response Center if equaled or exceeded in releases to the environment; certain

exemptions are listed in 40 CFR 302.6\_

respiratory tract the structures and organs involved in breathing; includes the nose,

larynx, trachea, bronchi, bronchioli, and lungs

respiratory tract

<u>filters</u>

those anatomical structures that remove particles from inhaled air

reticulum cell a cell in the reticuloendothelial system that has endothelial and

reticular attributes; system includes spleen and lymph nodes, cells in

the liver, part of the bone marrow, and macrophages

<u>retrospective study</u> an epidemiological study that collects information about past events

that may be related to the present distribution of disease

revertant in microbial genetics, a mutant that has reverted to its former

genotype or to the original phenotype

<u>rheumatoid arthritis</u> a chronic disease of the joints, marked by inflammatory changes of

joint structures

rodenticide any substance or mixture of substances used to kill rodents or to

prevent them from damaging food, crops, etc.

<u>S</u>

salivary gland any of several exocrine glands in the mouth that secrete saliva, a fluid

that keeps the mouth moist and aids in digestion

sarcoma a malignant neoplasm derived from connective tissue

schwannoma a peripheral glioma

scleroderma a chronic hardening and shrinking of connective tissue; affects such

parts of the body as the skin, heart, esophagus, kidneys, and lungs

scrotum the pouch that contains the testes and their accessory organs

secondary cancer a cancer arising through metastasis of primary cancer

sedative an agent that relieves excitement or anxiety and induces sleep

<u>sensitizer</u> a substance that causes dermatitis only after alteration (sensitization)

of the skin by previous exposure to that substance

<u>site limitation</u> a chemical consumption at the original location of production (use

is limited to that site)

small intestine the small tube of the intestine, about 20 feet long, extending from the

opening of the stomach to the large intestine

smelter an establishment used to separate or refine a metal from its ore, often

with accompanying chemical change

soluble capable of being dissolved; able to pass into solution in a particular

solvent such as water, alcohol, or oil, and form a clear mixture

somatic pertaining to the body; related to the framework of outer walls of the

body, including skin, skeletal muscle, tendons, and joints; somatic

chromosomes include the nonsex chromosomes

spleen a large, vascular, lymphatic organ in the upper abdominal cavity that

stores blood cells and produces lymphocytes

squamous cell a thin, flat epithelial cell

stereoisomer a molecule containing the same number and kind of atom groupings

as another but in a different arrangement in space, by virtue of which

it exhibits different properties

steroid hormone any of the various hormones secreted by the adrenal cortex, testes,

ovaries, and placenta

subcutaneous (s.c.)

injection

an injection under the skin

synergism the aspect of two agents interacting to produce an effect greater than

the sum of the agents' individual effects

T

the organ affected by a specific chemical in a specific species

technical grade a purity standard applied to a chemical that may contain multiple

impurities

<u>teratogen</u> a drug or other agent that causes abnormal development

the study of malformation, monstrosities, or serious deviations from

the normal type in organisms

the male gonads; they are situated in the scrotum and they produce

sperm

the part of the body that lies between the neck and the respiratory

diaphragm and that is encased by ribs; the chest

thrombocytopenic purpura a disorder characterized by purplish or brownish red discoloration that

is visible through the skin; caused by hemorrhage into the tissues and involving a decrease in blood platelets (factors necessary for

clotting)

thrombophlebitis an inflammation of a vein, possibly leading to the formation of a

blood clot

thymus a lymphoid gland located in the upper chest or the base of the neck

and serving to help in developing the autoimmune system of most

young vertebrates

thyroid gland a large gland situated at the base of the neck and producing hormones

that are involved in regulating the rate of metabolism

time-weighted average the average exposure concentration of a chemical measured over a

(TWA) period of time (not an instantaneous concentration)

topical designed for direct application to a specific part of the body

toxemia the condition resulting from the spread of bacterial products (toxins)

by the blood stream

toxic of or pertaining to a poison

trachea the main trunk of the system of tubes to and from the lungs in

vertebrates; runs between the pharynx and bronchi

transfection infection of a bacterium or cell with nucleic acid (DNA or RNA) that

has been isolated from bacteriophage or animal or plant virus, and

that results in replication of complete virus

<u>transplacental</u> through the placenta

<u>tuberculosis</u> a communicable disease caused by bacteria and principally affecting

the lungs

<u>tubular cell</u> a cell which has a tubule or small tube-like structure

tumor a neoplasm; a mass of new tissue that persists and grows

independently of its surrounding structures and that has no

physiological use; it may be benign or malignant

<u>tumorigenic</u> causing or producing tumors

U

<u>ulcerative colitis</u> the chronic, recurrent breaking of tissue in the colon, with such

symptoms as abdominal pain and rectal bleeding

urinary bladder the sac, situated in the front pelvic area, that serves as a reservoir for

urine

<u>urinary tract</u> the organs and ducts involved in producing and eliminating urine

uterus in female animals, the hollow muscular organ in which the developing

embryo and fetus lives and is nourished

 $\underline{\mathbf{V}}$ 

<u>vagina</u> the passage leading from the uterus to the outside of the female body

<u>vaginal trichomoniasis</u> an infection of the vagina caused by a microorganism and involving

vaginal discharge that is difficult to treat

<u>valence</u> a numerical measure of combining capacity of an atom/ion with other

atoms/ions to form chemical bonds; valence is the relative combining capacity with respect to that of the standard hydrogen atom (valence = 1) and depends on the electronic configuration of

the atoms

<u>vascular</u> pertaining to vessels or ducts that convey fluids such as blood, lymph,

or sap; in human or veterinary medicine, vascular pertains to blood

vessels

vector control the control of insects and other organisms that are able to transmit

infectious agents of disease

<u>vehicle</u> the substance in which a compound is dissolved or mixed prior to an

animal's being dosed with that compound

<u>vesicant</u> causing blisters

<u>viscera</u> organs of the digestive, respiratory, urogenital, and endocrine systems,

as well as the spleen, the heart, and great vessels

<u>viscosity</u> the quality of resistance to flow

<u>vitiligo</u> a skin disorder in which smooth white spots appear on various parts

of the body

volatile quality of a solid or liquid allowing it to pass into the vapor state at

a given temperature

 $\underline{\mathbf{W}}$ 

Wegener's a progressive disease characterized by tumor-like lesions of the granulomatosis respiratory tract, inflammation of the minute branches of the arteries,

and, in the later stages, inflammation of all the organs of the body

Wilms' tumor a rapidly developing malignant tumor of the kidneys, usually affecting

children under age five

<u>X</u>

<u>xenobiotic</u> a pharmacologically, endocrinologically, or toxicologically active

substance not endogenously produced and therefore foreign to an

organism

<u>X-irradiation</u> exposure to X-rays

 $\mathbf{Z}$ 

Zymbal gland any of several sebaceous glands surrounding the external ear canal

in rodents