

Substances Listed in the Fourteenth Report on Carcinogens

Bold entries indicate new or changed listings in the Fourteenth Report on Carcinogens.

Known To Be Human Carcinogens

Aflatoxins

Alcoholic Beverage Consumption

4-Aminobiphenyl

Analgesic Mixtures Containing Phenacetin (see Phenacetin and Analgesic Mixtures Containing Phenacetin)

Aristolochic Acids

Arsenic and Inorganic Arsenic Compounds

Asbestos

Azathioprine

Benzene

Benzidine (see Benzidine and Dyes Metabolized to Benzidine)

Beryllium and Beryllium Compounds

Bis(chloromethyl) Ether and Technical-Grade Chloromethyl Methyl Ether

1,3-Butadiene

1,4-Butanediol Dimethanesulfonate

Cadmium and Cadmium Compounds

Chlorambucil

1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (see Nitrosourea Chemotherapeutic Agents)

Chromium Hexavalent Compounds

Coal Tars and Coal-Tar Pitches

Coke-Oven Emissions

Cyclophosphamide

Cyclosporin A

Diethylstilbestrol

Dyes Metabolized to Benzidine (Benzidine Dye Class) (see Benzidine and Dyes Metabolized to Benzidine)

Epstein-Barr Virus (see Viruses: Eight Listings)

Erionite

Estrogens, Steroidal

Ethylene Oxide

Formaldehyde

Hepatitis B Virus (see Viruses: Eight Listings)

Hepatitis C Virus (see Viruses: Eight Listings)

Human Immunodeficiency Virus Type 1 (see Viruses: Eight Listings)

Human Papillomaviruses: Some Genital-Mucosal Types (see Viruses: Eight Listings)

Human T-Cell Lymphotropic Virus Type 1 (see Viruses: Eight Listings)

Kaposi Sarcoma-Associated Herpesvirus (see Viruses: Eight Listings)

Melphalan

Merkel Cell Polyomavirus (see Viruses: Eight Listings)

Methoxsalen with Ultraviolet A Therapy

Mineral Oils: Untreated and Mildly Treated

Mustard Gas

2-Naphthylamine

Neutrons (see Ionizing Radiation)

Nickel Compounds (see Nickel Compounds and Metallic Nickel)

Radon (see Ionizing Radiation)

Silica, Crystalline (Respirable Size)

Solar Radiation (see Ultraviolet Radiation Related Exposures)

Soots

Strong Inorganic Acid Mists Containing Sulfuric Acid

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Sunlamps or Sunbeds, Exposure to (see Ultraviolet Radiation Related Exposures)

Tamoxifen

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin

Thiotepa

Thorium Dioxide (see Ionizing Radiation)

Tobacco Smoke, Environmental (see Tobacco-Related Exposures)

Tobacco Smoking (see Tobacco-Related Exposures)

Tobacco, Smokeless (see Tobacco-Related Exposures)

o-Toluidine

Trichloroethylene

Ultraviolet Radiation, Broad-Spectrum (see Ultraviolet Radiation Related Exposures)

Vinyl Chloride (see Vinyl Halides [selected])

Wood Dust

X-Radiation and Gamma Radiation (see Ionizing Radiation)

Reasonably Anticipated To Be Human Carcinogens

Acetaldehyde

2-Acetylaminofluorene

Acrylamide

Acrylonitrile

Adriamycin

2-Aminoanthraquinone

o-Aminoazotoluene

1-Amino-2,4-dibromoanthraquinone

2-Amino-3,4-dimethylimidazo[4,5-*f*]quinoline (see Heterocyclic Amines [Selected])

2-Amino-3,8-dimethylimidazo[4,5-*f*]quinoxaline (see Heterocyclic Amines [Selected])

1-Amino-2-methylanthraquinone

2-Amino-3-methylimidazo[4,5-*f*]quinoline (see Heterocyclic Amines [Selected])

2-Amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine (see Heterocyclic Amines [Selected])

Amitrole

o-Anisidine and Its Hydrochloride

Azacitidine

Basic Red 9 Monohydrochloride

Benz[*a*]anthracene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Benzo[*b*]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Benzo[*j*]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Benzo[*k*]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Benzo[*a*]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Benzotrichloride

2,2-Bis(bromomethyl)-1,3-propanediol (Technical Grade)

Bis(chloroethyl) Nitrosourea (see Nitrosourea Chemotherapeutic Agents)

Bromodichloromethane

1-Bromopropane

Butylated Hydroxyanisole

Captafol

Carbon Tetrachloride

Ceramic Fibers (Respirable Size)

Chloramphenicol

Chlorendic Acid

Chlorinated Paraffins (C₁₂, 60% Chlorine)

Chloroform

1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (see Nitrosourea Chemotherapeutic Agents)

3-Chloro-2-methylpropene

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4-Chloro-*o*-phenylenediamine

Chloroprene

p-Chloro-*o*-toluidine and Its Hydrochloride

Chlorozotocin (see Nitrosourea Chemotherapeutic Agents)

Cisplatin

Cobalt and Cobalt Compounds That Release Cobalt Ions *In Vivo* (see Cobalt-Related Exposures)

Cobalt–Tungsten Carbide: Powders and Hard Metals (see Cobalt-Related Exposures)

p-Cresidine

Cumene

Cupferron

Dacarbazine

Danthron

2,4-Diaminoanisole Sulfate

2,4-Diaminotoluene

Diazoaminobenzene

Dibenz[*a,h*]acridine (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Dibenz[*a,j*]acridine (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Dibenz[*a,h*]anthracene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

7H-Dibenzo[*c,g*]carbazole (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Dibenzo[*a,e*]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Dibenzo[*a,h*]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Dibenzo[*a,l*]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

Dibenzo[*a,l*]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)

1,2-Dibromo-3-chloropropane

1,2-Dibromoethane

2,3-Dibromo-1-propanol

1,4-Dichlorobenzene

3,3'-Dichlorobenzidine and Its Dihydrochloride

Dichlorodiphenyltrichloroethane

1,2-Dichloroethane

Dichloromethane

1,3-Dichloropropene (Technical Grade)

Diepoxybutane

Diesel Exhaust Particulates

Di(2-ethylhexyl) Phthalate

Diethyl Sulfate

Diglycidyl Resorcinol Ether

3,3'-Dimethoxybenzidine (see 3,3'-Dimethoxybenzidine and Dyes Metabolized to 3,3'-Dimethoxybenzidine)

4-Dimethylaminoazobenzene

3,3'-Dimethylbenzidine (see 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine)

Dimethylcarbamoyl Chloride

1,1-Dimethylhydrazine

Dimethyl Sulfate

Dimethylvinyl Chloride

1,6-Dinitropyrene (see Nitroarenes [Selected])

1,8-Dinitropyrene (see Nitroarenes [Selected])

1,4-Dioxane

Disperse Blue 1

Dyes Metabolized to 3,3'-Dimethoxybenzidine (3,3'-Dimethoxybenzidine Dye Class)
(see 3,3'-Dimethoxybenzidine and Dyes Metabolized to 3,3'-Dimethoxybenzidine)

Dyes Metabolized to 3,3'-Dimethylbenzidine (3,3'-Dimethylbenzidine Dye Class)
(see 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine)

Epichlorohydrin

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Ethylene Thiourea
Ethyl Methanesulfonate
Furan
Glass Wool Fibers (Inhalable), Certain
Glycidol
Hexachlorobenzene
Hexachloroethane
Hexamethylphosphoramide
Hydrazine and Hydrazine Sulfate
Hydrazobenzene
Indeno[1,2,3-*cd*]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Iron Dextran Complex
Isoprene
Kepone
Lead and Lead Compounds
Lindane, Hexachlorocyclohexane (Technical Grade), and Other Hexachlorocyclohexane Isomers
2-Methylaziridine
5-Methylchrysene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
4,4'-Methylenebis(2-chloroaniline)
4,4'-Methylenebis(*N,N*-dimethyl)benzenamine
4,4'-Methylenedianiline and Its Dihydrochloride
Methyleugenol
Methyl Methanesulfonate
N-Methyl-*N'*-Nitro-*N*-Nitrosoguanidine (see *N*-Nitrosamines: 15 Listings)
Metronidazole
Michler's Ketone
Mirex
Naphthalene
Nickel, Metallic (see Nickel Compounds and Metallic Nickel)
Nitrilotriacetic Acid
o-Nitroanisole
Nitrobenzene
6-Nitrochrysene (see Nitroarenes [Selected])
Nitrofen
Nitrogen Mustard Hydrochloride
Nitromethane
2-Nitropropane
1-Nitropyrene (see Nitroarenes [Selected])
4-Nitropyrene (see Nitroarenes [Selected])
N-Nitrosodi-*n*-butylamine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosodiethanolamine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosodiethylamine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosodimethylamine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosodi-*n*-propylamine (see *N*-Nitrosamines: 15 Listings)
N-Nitroso-*N*-ethylurea (see *N*-Nitrosamines: 15 Listings)
4-(*N*-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (see *N*-Nitrosamines: 15 Listings)
N-Nitroso-*N*-methylurea (see *N*-Nitrosamines: 15 Listings)
N-Nitrosomethylvinylamine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosomorpholine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosornicotine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosopiperidine (see *N*-Nitrosamines: 15 Listings)
N-Nitrosopyrrolidine (see *N*-Nitrosamines: 15 Listings)
N-Nitrososarcosine (see *N*-Nitrosamines: 15 Listings)

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o-Nitrotoluene
Norethisterone
Ochratoxin A
4,4'-Oxydianiline
Oxymetholone
Pentachlorophenol and By-products of Its Synthesis
Phenacetin (see Phenacetin and Analgesic Mixtures Containing Phenacetin)
Phenazopyridine Hydrochloride
Phenolphthalein
Phenoxybenzamine Hydrochloride
Phenytoin and Phenytoin Sodium
Polybrominated Biphenyls
Polychlorinated Biphenyls
Procarbazine and Its Hydrochloride
Progesterone
1,3-Propane Sultone
 β -Propiolactone
Propylene Oxide
Propylthiouracil
Reserpine
Riddelliine
Safrole
Selenium Sulfide
Streptozotocin (see Nitrosourea Chemotherapeutic Agents)
Styrene
Styrene-7,8-oxide
Sulfallate
Tetrachloroethylene
Tetrafluoroethylene
Tetranitromethane
Thioacetamide
4,4'-Thiodianiline
Thiourea
Toluene Diisocyanates
Toxaphene
2,4,6-Trichlorophenol
1,2,3-Trichloropropane
Tris(2,3-dibromopropyl) Phosphate
Ultraviolet Radiation A (see Ultraviolet Radiation Related Exposures)
Ultraviolet Radiation B (see Ultraviolet Radiation Related Exposures)
Ultraviolet Radiation C (see Ultraviolet Radiation Related Exposures)
Urethane
Vinyl Bromide (see Vinyl Halides [Selected])
4-Vinyl-1-cyclohexene Diepoxide
Vinyl Fluoride (see Vinyl Halides [Selected])