

Chemicals in the Fourth Report

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Acrylamide

Acrylamide hemoglobin adducts *
Glycidamide hemoglobin adducts *

Cotinine

N,N-Diethyl-*meta*-toluamide (DEET)

Environmental Phenols

Benzophenone-3 (2-Hydroxy-4-methoxybenzophenone) *
Bisphenol A (2,2-*bis*[4-Hydroxyphenyl] propane) *
4-*tert*-Octylphenol (4-[1,1,3,3-Tetramethylbutyl] phenol) *
Triclosan (2,4,4'-Trichloro-2'-hydroxyphenyl ether) *

Perchlorate *

Pesticides

Fungicides

Pentachlorophenol
ortho-Phenylphenol

Herbicides

Acetochlor mercapturate
Alachlor mercapturate
Atrazine mercapturate
2,4-Dichlorophenoxyacetic acid
Metolachlor mercapturate
2,4,5-Trichlorophenoxyacetic acid

Carbamate Insecticides

Carbofuranphenol
2-Isopropoxyphenol

Organochlorine Pesticides

Aldrin
Dieldrin
Endrin
o,p'-Dichlorodiphenyltrichloroethane
p,p'-Dichlorodiphenyldichloroethene (DDE)
p,p'-Dichlorodiphenyltrichloroethane (DDT)
Heptachlor epoxide
Hexachlorobenzene
beta-Hexachlorocyclohexane
gamma-Hexachlorocyclohexane (Lindane)
Mirex
trans-Nonachlor
Oxychlorodane
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol

Organophosphorus Insecticides: Dialkyl Phosphate Metabolites

Diethyldithiophosphate (DEDTP)
Diethylphosphate (DEP)
Diethylthiophosphate (DETP)
Dimethyldithiophosphate (DMDTP)
Dimethylphosphate (DMP)
Dimethylthiophosphate (DMTP)

Organophosphorus Insecticides: Specific Metabolites

3-Chloro-7-hydroxy-4-methyl-2H-chromen-2-one/ol
2-(Diethylamino)-6-methylpyrimidin-4-ol/one
2-Isopropyl-4-methyl-6-hydroxypyrimidine
Malathion dicarboxylic acid
para-Nitrophenol
3,5,6-Trichloro-2-pyridinol

Pyrethroid Pesticides

cis-3-(2,2-Dibromovinyl)-2,2-dimethylcyclopropane carboxylic acid
cis-3-(2,2-Dichlorovinyl)-2,2-dimethylcyclopropane carboxylic acid
trans-3-(2,2-Dichlorovinyl)-2,2-dimethylcyclopropane carboxylic acid
4-Fluoro-3-phenoxybenzoic acid
3-Phenoxybenzoic acid

Metals

Antimony
Arsenic, Total *
Arsenic (V) acid *
Arsenobetaine *
Arsenocholine *
Arsenous (III) acid *
Dimethylarsinic acid *
Monomethylarsonic acid *
Trimethylarsine oxide *
Barium
Beryllium
Cadmium
Cesium
Cobalt
Lead
Mercury
Molybdenum
Platinum
Thallium
Tungsten
Uranium

Perfluorochemicals

Perfluorobutane sulfonic acid (PFBuS) *
Perfluorodecanoic acid (PFDeA) *
Perfluorododecanoic acid (PFDoA) *
Perfluoroheptanoic acid (PFHpA) *
Perfluorohexane sulfonic acid (PFHxS) *
Perfluorononanoic acid (PFNA) *
Perfluorooctane sulfonamide (PFOSA) *
Perfluorooctane sulfonic acid (PFOS) *
2-(N-Ethyl-perfluorooctane sulfonamido) acetic acid (Et-PFOSA-AcOH) *
2-(N-Methyl-perfluorooctane sulfonamido) acetic acid (Me-PFOSA-AcOH) *
Perfluorooctanoic acid (PFOA) *
Perfluoroundecanoic acid (PFUA) *

Phthalates

Mono-benzyl phthalate (MBzP)
Mono-*n*-butyl phthalate (MnBP)
Mono-(3-carboxypropyl) phthalate (MCPP)
Mono-cyclohexyl phthalate (MCHP)
Mono-ethyl phthalate (MEP)
Mono-(2-ethyl-5-carboxypentyl) phthalate (MECPP) *
Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)
Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)
Mono-2-ethylhexyl phthalate (MEHP)
Mono-isobutyl phthalate (MiBP)
Mono-isononyl phthalate (MiNP)
Mono-methyl phthalate (MMP)
Mono-*n*-octyl phthalate (MOP)

Phytoestrogens

Daidzein
Enterodiol
Enterolactone
Equol
Genistein
O-Desmethylangolensin

Brominated Fire Retardants

2,2',4-Tribromodiphenyl ether (BDE 17) *
2,4,4'-Tribromodiphenyl ether (BDE 28) *
2,2',4,4'-Tetrabromodiphenyl ether (BDE 47) *
2,3',4,4'-Tetrabromodiphenyl ether (BDE 66) *
2,2',3,4,4'-Pentabromodiphenyl ether (BDE 85) *
2,2',4,4',5-Pentabromodiphenyl ether (BDE 99) *
2,2',4,4',6-Pentabromodiphenyl ether (BDE 100) *
2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE 153) *
2,2',4,4',5,6'-Hexabromodiphenyl ether (BDE 154) *
2,2',3,4,4',5,6-Heptabromodiphenyl ether (BDE 183) *
2,2',4,4',5,5'-Hexabromobiphenyl (BB 153) *

Chemicals in the Fourth Report, continued

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Non-Dioxin-Like Polychlorinated Biphenyls

2,4,4'-Trichlorobiphenyl (PCB 28)
 2,2',3,5'-Tetrachlorobiphenyl (PCB 44) *
 2,2',4,5'-Tetrachlorobiphenyl (PCB 49) *
 2,2',5,5'-Tetrachlorobiphenyl (PCB 52)
 2,3',4,4'-Tetrachlorobiphenyl (PCB 66)
 2,4,4',5-Tetrachlorobiphenyl (PCB 74)
 2,2',3,4,5'-Pentachlorobiphenyl (PCB 87)
 2,2',4,4',5-Pentachlorobiphenyl (PCB 99)
 2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)
 2,3,3',4',6-Pentachlorobiphenyl (PCB 110)
 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)
 2,2',3,4,4',5' and 2,3,3',4,4',6-Hexachlorobiphenyl (PCB 138 & 158)
 2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)
 2,2',3,4',5',6-Hexachlorobiphenyl (PCB 149)
 2,2',3,5,5',6-Hexachlorobiphenyl (PCB 151)
 2,2',4,4',5,5',6-Hexachlorobiphenyl (PCB 153)
 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)
 2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172)
 2,2',3,3',4,5',6'-Heptachlorobiphenyl (PCB 177)
 2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178)
 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)
 2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 183)
 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)
 2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)
 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)
 2,2',3,3',4,4',5,6' and 2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 196 & 203)
 2,2',3,3',4,5,5',6-Octachlorobiphenyl (PCB 199)
 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)
 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (PCB 209) *

Dioxin-Like Chemicals

Polychlorinated Dibenzo-p-dioxins

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)
 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)

Polychlorinated Dibenzofurans

1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)
 1,2,3,4,7,8-Heptachlorodibenzofuran (HpCDF)
 1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)
 1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)
 1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)
 2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)
 1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)
 1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)
 2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)
 2,3,7,8-Tetrachlorodibenzofuran (TCDF)

Coplanar Polychlorinated Biphenyls

3,4,4',5-Tetrachlorobiphenyl (PCB 81)
 3,3',4,4',5-Pentachlorobiphenyl (PCB 126)
 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)

Mono-ortho-substituted Polychlorinated Biphenyls

2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)
 2,3',4,4',5-Pentachlorobiphenyl (PCB 118)
 2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)
 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)
 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)
 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)

Polycyclic Aromatic Hydrocarbons (PAHs)

2-Hydroxyfluorene
 3-Hydroxyfluorene
 9-Hydroxyfluorene
 1-Hydroxynaphthalene (1-Naphthol)
 2-Hydroxynaphthalene (2-Naphthol)
 1-Hydroxyphenanthrene
 2-Hydroxyphenanthrene
 3-Hydroxyphenanthrene
 4-Hydroxyphenanthrene
 1-Hydroxypyrene

Disinfection By-Products (Trihalomethanes)

Bromodichloromethane *
 Dibromochloromethane (Chlorodibromomethane) *
 Tribromomethane (Bromoform) *
 Trichloromethane (Chloroform) *

Volatile Organic Compounds (VOCs)

Benzene *
 Chlorobenzene (Monochlorobenzene) *
 1,2-Dibromo-3-chloropropane (DBCP) *
 Dibromomethane *
 1,2-Dichlorobenzene (*ortho*-Dichlorobenzene) *
 1,3-Dichlorobenzene (*meta*-Dichlorobenzene) *
 1,4-Dichlorobenzene (*para*-Dichlorobenzene) *
 1,1-Dichloroethane *
 1,2-Dichloroethane (Ethylene dichloride) *
 1,1-Dichloroethene (Vinylidene chloride) *
cis-1,2-Dichloroethene *
trans-1,2-Dichloroethene *
 Dichloromethane (Methylene chloride) *
 1,2-Dichloropropane *
 2,5-Dimethylfuran (DMF) *
 Ethylbenzene *
 Hexachloroethane *
 Methyl *tert*-butyl ether (MTBE) *
 Nitrobenzene *
 Styrene *
 1,1,2,2-Tetrachloroethane *
 Tetrachloroethene (Perchloroethylene) *
 Tetrachloromethane (Carbon tetrachloride) *
 Toluene *
 1,1,1-Trichloroethane (Methyl chloroform) *
 1,1,2-Trichloroethane *
 Trichloroethene (Trichloroethylene, TCE) *
meta- and *para*-Xylene *
ortho-Xylene *