

What is non-targeted analysis?

Traditional testing methods identify and measure a few select chemicals – non-targeted analysis (NTA) allows researchers to take a broader look. NTA can be used to screen for large numbers of chemicals that might be present in an environmental sample (such as drinking water) or to identify unknown chemicals. It helps researchers look for more than just a few chemicals in a sample and can also help identify new and emerging contaminants.

How can NTA help reveal what chemicals may be in drinking water?

NTA gathers data on any chemical that the instrument (usually a mass spectrometer) can detect, and researchers work backwards to identify unknown chemicals. NTA results in a list of possible chemicals in a sample, which is then compared to known reference standards to confirm which chemicals they are. NTA can tell a researcher if a chemical is present but does not tell a researcher how much of the chemical is present.



How is EPA using NTA to understand emerging contaminants in drinking water?

EPA researchers have developed NTA methods to detect a variety of chemicals that may be present in drinking water. EPA has also created a custom chemical screening library of over 1,400 emerging contaminants, such as pharmaceuticals, per- and polyfluoroalkyl substances (PFAS), and pesticides, that researchers can use to quickly and efficiently identify what's in drinking water samples.

In September 2026, EPA announced a study in support of the Safe Drinking Water Act, that will:

- Sample drinking water from several locations in different metropolitan areas
- Use EPA's screening library to identify emerging contaminants
- Create a database of unknown chemicals for further identification

What contaminants will EPA's study look for?

EPA's novel study will look for a broad range of chemicals to better understand the occurrence of emerging contaminants in drinking water. EPA's screening library includes **1,400 emerging contaminants**, including: **1,000+ pesticides** and pesticide metabolites; **250+ pharmaceuticals and personal care products**; **70+ PFAS**; and other emerging contaminants.

**1,000+ Pesticides
and Pesticide
Metabolites**

**250+
Pharmaceuticals
and Personal Care
Products**

**70+ Per- and
Polyfluoroalkyl
Substances
(PFAS)**



Occurrence of Emerging Contaminants in Drinking Water Using Non-Targeted Analysis

How did EPA develop this chemical screening library?

EPA built this custom chemical screening library by taking a small amount of a pure chemical (called a “certified reference standard”) and using a mass spectrometer to determine its physical and chemical properties. EPA scientists then used this information to build an individual profile of the chemical – EPA scientists did this for over 1,400 chemicals to build the current library. This allows scientists to compare the properties of chemicals that may be in a sample of drinking water to the chemical profiles in the library, allowing them to quickly and efficiently identify what chemicals are present in the sample.

Chemical Screening Library: List of Chemicals

The custom chemical screening library currently has over 1,400 chemicals. Below is the list of chemicals in the library as of September 2026, grouped into four groups: Pesticides and Pesticide Metabolites; Pharmaceuticals and Personal Care Products; Per- and Polyfluoroalkyl Substances; and Other Emerging Contaminants.

Pesticides and Pesticide Metabolites

2,4-Dichlorophenoxyacetic acid	2-Imidazolidone	Abamectin B1a
Abamectin B1b	Acephate	Acetamiprid
Acetamiprid-metabolite IM-2-1	Acetamiprid-metabolite-6-chloronicotinic acid	Acetamiprid-metabolite-IM-1-4
Acetamiprid-metabolite-IM-2-2	Acetochlor	Acetochlor metabolite EMA (N-ethyl-N-methylaniline)
Acetochlor metabolite HEMA	Acetochlor metabolite tert sulfinyl acetic acid	Acibenzolar acid
Acibenzolar-S-methyl	Acifluorfen	Acifluorfen amine
Acifluorfen amine methyl ester LS-82-5282	Acifluorfen methyl ester	Aclonifen
Acrinathrin	Afidopyropen	Akton
Alachlor	Alachlor metabolite (2,6-DEA)	Alanycarb
Aldicarb	Aldicarb sulfone	Aldicarb sulfoxide
Allethrin	Allidochlor	Alloxydim
Ametoctradin	Ametryn	Amicarbazone
Amidochlor	Amidosulfuron	Aminobenzimidazole_2-
Aminocarb	Aminocyclopyrachlor	Aminopyridine, 4-
Amiphos	Amiprofos methyl	Amisulbrom
Ancymidol	Anilofos	Antimycin A
Aramite	Aspon	Asulam
Atraton	Atrazine	Atrazine desethyl
Atrazine_desisopropyl	Avermectin B1a, 8,9-Z	Avitrol
Azaconazole	Azadirachtin	Azafenidin
Azamethiphos	Azimsulfuron	Azinphos ethyl

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Azinphos methyl	Azinphos methyl oxon	Aziprotryne
Azoxystrobin	Azoxystrobin metabolite R234886	Azoxystrobin metabolite R401553
Azoxystrobin metabolite R402173	Azoxystrobin Z metabolite (ASJ10075-04)	Barban
Beflubutamid	Benalaxyl	Benazolin
Bendiocarb	Benfuracarb	Benodanil
Benoxacor	Benquinox	Bensulfuron methyl
Bensulide	Bensulide oxon	Bentazon, 6OH-
Bentazon, 8OH-	Bentazone	Benthiavalicarb-isopropyl
Benthiazole (TCMTB)	Bentranil	Benzadox
Benzobicyclon	Benzofenap	Benzoguanamine
Benzovinidiflupyr	Benzovinidiflupyr metabolite SYN 546039	Benzoximate
Benzoylprop ethyl	Bicyclopyrone	Bifenazate
Bifenazate metabolite D23-15	Bifenox	Bifenthrin
Bifenthrin, 4'-Hydroxy	Binapacryl	Bioresmethrin
Bispyribac	Bistrifluron	Bitertanol
Bixafen	Bomyl	Boscalid
Boscalid metabolite 2-chloro-nicotinic acid	Boscalid metabolite M510 F01	Boscalid metabolite M510 F49
Boscalid metabolite M510F01 acetyl	Brodifacoum	Bromadiolone
Bromfenvinphos ethyl	Bromfenvinphos methyl	Bromobutide
Bromuconazole, cis-	Bromuconazole, trans-	Bufencarb
Bupirimate	Buprofezin	Butachlor
Butafenacil	Butamifos	Butamifos oxon
Buthidazole	Butralin	Buturon
Butylate	Cadusafos	Cafenstrole
Carbaryl	Carbendazim	Carbetamide
Carbofuran	Carbofuran 3-keto-	Carbofuran phenol
Carbofuran, 3OH-	Carbophenothion methyl oxon	Carbophenothion methyl sulfoxide
Carbophenothion oxon sulfone	Carbosulfan	Carboxin
Carboxin sulfoxide	Carfentrazone ethyl	Carfentrazone metabolite chloropropionic acid
Carfentrazone metabolite cinnamic acid	Carfentrazone metabolite priopionic acid	Carpropamid
Chinomethionate	chloramben	Chlorantraniliprole
Chlorbromuron	Chlorbufam	Chlordimeform
Chlorethoxyfos oxon	Chlorfenapyr	Chlorfenvinphos
Chlorfluazuron	Chlorflurenol-methyl	Chloridazon metabolite A
Chlorimuron-ethyl	Chlorobenzuron	Chloromethiuron
Chlorophacinone	Chloroxuron	Chlorpyrifos
Chlorpyrifos-oxon	Chlorsulfuron	Chlorthiamid
Chlorthiophos	Chlorthiophos oxygen analog 2,5-isomer	Chlorthiophos sulfone

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Chlorthiophos sulfoxide, 2.5-isomer	Chlortoluron	Chromafenozide
Cinerin I	Cinerin II	Cinidon-ethyl
Cinmethylin	Cinosulfuron	Cisanilide
Clethodim	Clethodim sulfone	Clethodim sulfone, 5OH-
Clethodim sulfoxide	Clodinafop propargyl	Clodinafop propargyl metabolite (CGA 193469)
Clofencet	Clofentezine	Clomazone
clopyralid	Cloquintocet mexyl	Cloquintocet mexyl metabolite (CGA 153433)
Cloransulam methyl	Clothianidin	Clothianidin desmethyl TI 435 TZNG
Coumachlor	Coumafuryl	Coumaphos
Coumaphos-oxon	Coumatetralyl	Crimidine
Crotoxyphos	Crufomate	Cumyluron
Cyanazine	Cyanofenphos	Cyanophos
Cyantraniliprole	Cyazofamid	Cybutryne (Irgarol)
Cyclanilide	Cyclaniliprole	Cycloate
Cycloate, trans-3-hydroxy-	Cycloate, trans-4-hydroxy-	Cycloate_cis-3-hydroxy-
Cycloate_cis-4-hydroxy-	Cyclohexamide	Cycloprothrin
Cyclosulfamuron	Cycloxydim	Cycluron
Cyenopyrafen	Cyflufenamid	Cyflumetofen
Cyfluthrin	Cyhalofop amide	Cyhalofop-butyl
Cyhalothrin	Cymiazole	Cymoxanil
Cypermethrin	Cyphenothrin	Cyprazine
Cyproconazole	Cyproconazole metabolite NOA-405872	Cyproconazole metabolite NOA-421153 (M14)
Cyproconazole metabolite NOA-421153 (M9)	Cyprodinil phenol CGA-304076	Cyprofuram
Cypromid	Cyprosulfamide	Cyromazine
Cythioate	Daimuron	Daminozide
Dazomet	DEF (Tribufos)	Demeton S-sulfoxide
Demeton-S	Demeton-S-methyl	Demeton-S-sulfone
Desmedipham	Desmetryn	Diafenthiuron
Dialifor	Diallate	Diamidafos
Diazinon	Diazinon-hydroxy	Diazinon-oxon
dicamba	Dichlofenthion	Dichlofluanid
Dichlormid	Dichlorobenzamide, 2_6-	Dichlorvos
Diclobutrazol	Diclocymet	Diclofop-methyl
Diclomezine	Diclosulam	Dicrotophos
Dicyclanil	Diethatyl ethyl	Diethofencarb
Difenacoum	Difenoconazole	Difenoconazole metabolite CGA-205375

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Difenoxuron	Diflovidazin (Flufenzine)	Diflubenzuron
Diflufenican	Diflufenzopyr	Diflumentorim
Dikegulac	Dimefluthrin	Dimefox
Dimefuron	Dimepiperate	Dimethachlor
Dimethachlor ESA	Dimethametryn	Dimethenamid
Dimethirimol	Dimethoate	Dimethomorph
Dimethomorph, E-	Dimethomorph, Z-	Dimethylphosphate
Dimethylvinphos, Z-	Dimetilan	Dimoxystrobin
Diniconazole	Dinitramine	Dinotefuran
Dinotefuran metabolite UF	Dinotefuran-metabolite DN phosphate	Diothyl (Pyrimitate, Bomtl)
Dioxabenzofos	Dioxacarb	Dioxathion
Diphacinone	Diphenamid	Diphenamid_desmethyl
Dipropalin	Dipropetryn	Disulfoton
Disulfoton sulfone	Disulfoton sulfoxide	Ditalimfos
Dithiopyr	Diuron	Diuron metabolite (1-(3,4-Dichlorophenyl)urea)
Diuron metabolite (N-(3,4-Dichloromethylphenyl)urea)	Dodemorph	Dodine
Doramectin	Drazoxolon	Edifenphos
Eamectin B1a	Empenthrin	Enoxastrobin
EPN (O-Ethyl O-(4-nitrophenyl)phenylphosphonothioate)	Epoxiconazole	Eprinomectin B1a
EPTC (S-ethyl dipropylthiocarbamate)	EPTC metabolite (S-ethyl 2-hydroxypropyl)propyl thiocarbamate	Esfenvalerate
Esprocarb	Etaconazole	Ethaboxam
Ethametsulfuron methyl	Ethidimuron	Ethiofencarb
Ethiofencarb sulfone	Ethiofencarb sulfoxide	Ethiolate
Ethion	Ethion dioxon	Ethion monoxon
Ethiozin	Ethiprole	Ethirimol
Ethofumesate	Ethoprophos	Ethoxyquin
Ethoxysulfuron	Ethylchlozate	Etobenzanid
Etofenprox	Etofenprox, 4-OH_metabolite	Etofenprox, alpha-CO metabolite
Etoxazole	Etrimfos	Etrofol (o-Chlorophenyl methyl carbamate)
Famoxadone	Famphur	Famphur oxon
Fenamidone	Fenamiphos	Fenamiphos deisopropyl
Fenamiphos sulfone	Fenamiphos sulfoxide	Fenarimol
Fenazaflor metabolite (5,6-dichloro-2-trifluoromethylbenzimidazole)	Fenazaquin	Fenbuconazole
Fenbuconazole metabolite RH-9130	Fenchlorphos oxon	Fenfuram
Fenhexamid	Fenitrothion	Fenitrothion oxon
Fenobucarb	Fenothiocarb	Fenoxanil

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Fenoxaprop ethyl	Fenoxycarb	Fenpiclonil
Fenpicoxamid	Fenpropathrin	Fenpropidin
Fenpropimorph	Fenpyrazamine	Fenpyroximate
Fenridazon	Fensulfothion	Fensulfothion oxon
Fensulfothion oxon sulfone	Fensulfothion sulfone	Fenthion
Fenthion oxon	Fenthion oxon sulfone	Fenthion sulfone
Fenthion sulfoxide	Fentrazamide	Fenuron
Fenvalerate	Ferimzone, E-	Fipronil
Fipronil amide	Fipronil desulfinyl	Fipronil desulfinyl amide
Fipronil sulfide	Fipronil sulfone	Flamprop-M isopropyl
Flamprop-methyl	Flazasulfuron	Flonicamid
Flonicamid TFNG	Flonicamid TFNG-AM	Florasulam
Florpyrauxifen	Florpyrauxifen benzyl	Fluacryprim
Fluazifop-P-butyl	Fluazinam	Fluazinam metabolite AMPA
Flubendiamide	Flubendiamide desiodo	Flubenzimine
Flucarbazone	Flucetosulfuron	Flucycloxaduron
Flucythrinate	Fludioxonil	Flufenacet
Flufenacet oxalate	Flufenacet sulfonate	Flufenacet thioglycolate sulfoxide
Flufenoxuron	Flufenpyr-ethyl	Flumetralin
Flumetsulam	Flumiclorac pentyl	Flumioxazin
Flumioxazin metabolite APF	Flumorph	Fluometuron
Fluopicolide	Fluopyram	Fluopyram benzamide
Fluoridamid	Fluoroglycofen ethyl	Fluoxastrobin
Flupyradifurone	Flupyr-sulfuron methyl	Fluquinconazole
Fluridone	Flurochloridone	Fluroxypyr
Flurprimidol	Flurtamone	Flusilazole
Fluthiacet	Fluthiacet-methyl	Flutianil
Flutolanil	Flutriafol	Flutrimazole
Fluvalinate	Fluxapyroxad	Fluxapyroxad metabolite M700F008
Fluxapyroxad metabolite M700F048	Fomesafen	Fonofos
Fonofos_oxon	Foramsulfuron	Forchlorfenuron
Formetanate	Formothion	Fosthiazate
Fosthiazate metabolite	Fuberidazole	Fumesate
Furalaxyl	Furametpyr	Furathiocarb
Furilazole	Furmecyclox	Gibberelin A3 (Gibberellic acid)
Gibberellin A4	Glufosinate	Glyodin

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Glyphosate	Griseofulvin	Halauxifen methyl acid
Halauxifen methyl ester	Halofenozide	Halosulfuron-methyl
Haloxypop-methyl	Haloxypop-P	Heptenophos
Hexaconazole	Hexaflumuron	Hexazinone
Hexazinone metabolite C	Hexazinone metabolite F	Hexazinone metabolite G
Hexythiazox	Hydramethylnon	Hydroxybenzimidazole, 2- (Carbendazim metabolite)
Imazalil	Imazalil metabolite RO14821	Imazamethabenz-methyl
Imazamox	Imazapic	Imazapic alcohol
Imazapyr	Imazaquin	imazethapyr
Imazosulfuron	Imibenconazole	Imicyafos
Imidacloprid	Imidacloprid olefin	Imidacloprid, 5OH-
Imidacloprid, desnitro-	Imidacloprid, desnitro-olefin	Imidaclothiz
Imiprothrin, cis-	Imiprothrin, trans-	Inabenfide
Indanofan	Indaziflam	Indole 3-butyric acid
Indoxacarb	Inodxacarb metabolite of S-enantiomer	Inodxacarb S-enantiomer
Iodocarb	Iodosulfuron methyl	Ipconazole
Ipfencarbazone	Iprobenfos	Iprovalicarb
Isazofos	Isocarbamid	Isocarbophos
Isofenphos	Isofenphos methyl	Isofenphos N-isopropyl oxon
Isofenphos-oxon	Isofetamid	Isolan
Isomalathion	Isonoruron	Isoproc carb
Isopropalin	Isoprothiolane	Isoproturon
Isopyrazam	Isotianil	Isoxaben
Isoxadifen-ethyl	Isoxaflutole	Isoxathion
Jasmolin I	Jasmolin II	Karbutilate
Kresoxim methyl	Kresoxim methyl metabolite BF490-1	Kresoxim methyl metabolite BF490-2
Kresoxim methyl metabolite BF490-9	Lactofen	Lenacil
Lepimectin, 6'-ethyl-	Lepimectin, 6'-methyl-	Leptophos oxon
Leptophos photoproduct	Linuron	Lufenuron
Malathion	Malathion oxon	Maleic hydrazine
Mandestrobin	Mandipropamid	MCPA ((4-Chloro-2-methylphenoxy)acetic acid)
Mecarbam	mecoprop (MCP)	Medetomidate
Mefenacet	Mefenpyr	Mefenpyr diethyl
Mefluidide	Mepanipyrim	Mephospholan
Mepronil	Mercaptobenzothiazole, 2-	Mesosulfuron methyl
Mesotrione	Mesotrione metabolite AMBA	Metaflumizone

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Metalaxyl	Metalaxyl_alanine_metabolite_CGA-94689	Metamifop
Metamitron	Metazachlor	Metconazole
Methabenzthiazuron	Methacrifos	Methamidophos
Methfuroxam	Methidathion	Methidathion oxon
Methidathion sulfone	Methiocarb	Methiocarb sulfone
Methiocarb sulfoxide	Methomyl	Methoprotetryne
Methoxyfenozide	Methyl parathion	Methyldymron
Metobromuron	Metofluthrin	Metolachlor
Metolachlor ESA	Metolachlor metabolite CGA-49751	Metolcarb
Metominostrobin, E-	Metosulam	Metoxuron
Metrafenone	Metribuzin	Metribuzin DA metabolite (Desaminometribuzin)
Metribuzin DK (Metribuzin-diketo)	Metsulfuron methyl	Mevinphos, cis-
Mevinphos, trans-	Mexacarbate	MGK-11
MGK-264	MGK-326 (Morpel 326)	Milbemectin A3
Milbemectin A4	Milbemycin, 8.9-ZMA-3	Milbemycin, 8.9-ZMA-4
Mobam	Molinate	Molinate, 4-Hydroxy
Molinate, Carboxy-	Momfluorothrin	Monalide
Monocrotophos	Monolinuron	Monuron
Moxidectin	Myclobutanil	Myclobutanil metabolite diol
Myclobutanil metabolite RH-9090	N,N-Diethyl-m-toluamide (DEET)	Naftalofos
Naled	Naphthalene acetic acid ethyl ester	Naproanilide
Napropamide	Naptalam	N-desmethylthiamethoxam
Neburon	Nicosulfuron	Nicotine
Nitenpyram	Nithiazine	Nitralin
Norbormide	Norea	Norflurazon
Norflurazon desmethyl	Novaluron	Noviflumuron
Nuarimol	Octhilinone	Ofurace
Omethoate	Orbencarb	Oryastrobin
Oryzalin	Oryzalin dimethyl	Oxabetrinil
Oxadiargyl	Oxadiazon	Oxadiazon hydroxy
Oxadixyl	Oxadixyl desmethyl	Oxamyl
Oxamyl-oxime	Oxasulfuron	Oxathiapiprolin
Oxaziclomefone	Oxpoconazole	Oxycarboxin
Oxydemeton-methyl (Demeton-S-methyl sulfoxide)	Oxydemeton-methyl sulfone (Demeton-S-methyl sulfone)	Oxyfluorfen
Paclobutrazol	Parathion	Parathion methyl-oxon
Parathion oxon	Parinol	Pebulate

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Penconazole	Pencycuron	Pendimethalin
Pendimethalin hydroxy methyl	Penflufen	Penoxsulam
Pentanochlor	Penthiopyrad	Pentoxazone
Perfluidone	Permethrin, cis-	Permethrin, trans-
Pethoxamid	Phenmedipham	Phenothrin, cis-
Phenothrin, trans-	Phenthoate	Phorate oxon
Phorate oxon sulfone	Phorate oxon sulfoxide	Phorate sulfone
Phorate sulfoxide	Phosalone	Phosalone oxon
Phosfolan	Phosmet	Phosmet oxon
Phosphamidon	Phostex	Phoxim
Picaridin	Picloram	Picolinafen
Picolinamide macrocyclic	Picolinamide metabolite UK-24	Picoxystrobin
Pinoxaden	Pinoxaden metabolite NOA-407854	Pinoxaden metabolite SYN-502836
Pinoxaden metabolite SYN-505164	Piperalin	Piperonyl butoxide
Piperophos	Pirimicarb	Pirimicarb desmethyl
Pirimicarb Desmethyl-formamido	Pirimiphos desethyl methyl metabolite R036341	Pirimiphos ethyl
Pirimiphos ethyl oxon	Pirimiphos methyl	Pirimiphos methyl metabolite R046382
Prallethrin	Pretilachlor	Primisulfuron methyl
Probenazole	Prochloraz	Prodiamine
Prodiamine metabolite SYN 520120	Profenofos	Profoxydim
Prohexadione	Prohydrojasmon	Promecarb
Prometon	Prometryn	Prometryn metabolite GS-11354
Prometryn metabolite GS-11526 (Hydroxy Prometryn)	Propachlor	Propachlor oxanilic acid
Propachlor sulfinyl acetic acid	Propachlor sulfonic acid	Propamocarb
Propanil	Propaphos	Propaquizafop
Propargite	Propazine	Propetamphos
Propham	Propiconazole	Propisochlor
Propoxur	Propoxycarbazone	Propyrisulfuron
Propyzamide	Proquinazid	Prosulfocarb
Prosulfuron	Prothioconazole sulfonic acid	Prothoate
Proxel	Pydiflumetofen	Pymetrozine
Pyracarbolid	Pyraclofos	Pyraclonil
Pyraclostrobin	Pyraflufen ethyl	Pyraflufen ethyl metabolite E-9
Pyrasulfotole desmethyl	Pyrazolynate	Pyrazone
Pyrazophos	Pyrazoxyfen	Pyrethrin

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Pyrethrin I	Pyrethrin II	Pyribencarb
Pyribenzoxim	Pyributicarb	Pyridaben
Pyridaben metabolite PB-7	Pyridalyl	Pyridalyl metabolite S-1812-DP
Pyridaphenthion	Pyridate	Pyrifenox
Pyrifluquinazon	Pyriftalid	Pyrimethanil
Pyrimidifen	Pyriminil (Pyrinuron, Vacor)	Pyrimisulfan
Pyriofenone	Pyriproxyfen	Pyrithiobac
Pyrnachlor	Pyroquilon	Pyroxasulfone
Pyroxsulam	Quinalphos	Quinclorac
Quinclorac, 2-hydroxy	Quinmerac	Quinoclamine
Quinoxyfen	Quizalofop	Quizalofop ethyl
Quizalofop-ethyl metabolite QOME (MeCHQ)	Resmethrin	Rimsulfuron
Rotenone	Saflufenacil	Saflufenacil metabolite M800H11
Schradan	Sebuthylazine	Sebuthylazine desethyl
Secbumeton	Sedaxane	Sethoxydim
Sethoxydim sulfoxide	Sethoxydim sulfoxide, 5OH-	Siduron
Silthiofam	Simazine	Simazine hydroxy
Simeconazole	Simeton	Simetryn
Spinetoram J	Spinetoram L	Spinosad A
Spinosad D	Spinosyn D, N-demethyl	Spinosyn K
Spirodiclofen enol	Spiromesifen	Spiromesifen enol
Spiromesifen glycol	Spirotetramat	Spirotetramat cis enol
Spirotetramat cis keto hydroxy	Spirotetramat glucoside	Spirotetramat monohydroxy
Spiroxamine	Strychnine	Sulcotrione
Sulfentrazone	Sulfentrazone metabolite, 3-desmethyl-	Sulfosulfuron
Sulfotep	Sulfoxaflor	Sulprofos
Sulprofos sulfone	Sulprofos sulfoxide	Tebuconazole
Tebuconazole metabolite (t-butyl hydroxy Folicur)	Tebufenozide	Tebufenpyrad
Tebupirimfos	Tebupirimphos oxon	Tebutam
Tebuthiuron	Tebuthiuron impurity EL-104	Tebuthiuron metabolite EL-106
Tebuthiuron metabolite EL-109	Tecloftalam	Teflubenzuron
Tefuryltrione	Tembotrione	Temephos
Temephos sulfone	Temephos sulfoxide	Tepraloxydim
Tepraloxydim metabolite 620M075	Tepraloxydim metabolite BH 620 DMP 318473	Tepraloxydim metabolite BH 620-5-OH-DP 620M038
Tepraloxydim metabolite BH 620-DL	Tepraloxydim metabolite BH 620-DML	Terbacil
Terbucarb (Terbutol)	Terbufos	Terbufos oxon

Chemical Screening Library: List of Chemicals

Pesticides and Pesticide Metabolites, continued

Terbufos oxon sulfoxide	Terbufos oxon_ sulfone	Terbufos-sulfone
Terbumeton	Terbumeton-desethyl	Terbuthylazine
Terbutryn	Tetrachlorvinphos	Tetraconazole
Tetramethrin, cis-	Tetramethrin, trans-	Thenylchlor
Thiabendazole	Thiabendazole metabolite CGA-18306 (Benzimidazole)	Thiabendazole, 5OH-
Thiacloprid	Thiacloprid descyano-	Thiacloprid-amide
Thiamethoxam	Thiamethoxam metabolite NOA 407475	Thiamethoxam metabolite CGA 353042
Thiazopyr	Thidiazuron	Thiencarbazone methyl
Thifensulfuron methyl	Thifluzamide	Thiobencarb
Thiocyclam	Thiodicarb	Thiofanox
Thiofanox sulfone	Thiofanox-sulfoxide	Thiophanate
Thiophanate methyl	Tiadinil	Tioxazafen
Tolclofos methyl	Tolfenpyrad	Tolpyralate
Tolylfluanid	Topramezone	Tralkoxydim
Tranid	Triadimefon	Triadimefon metabolite BAY_KWG_1323
Triadimenol	Tri-allate	Triasulfuron
Triazamate	Triazophos	Triazoxide
Tribenuron-methyl	Trichlamide	Trichlorfon
Triclocarban	Triclopyr	Triclopyr, 2-butoxy ethyl ester
Triclopyricarb	Tricyclazole	Tridemorph
Trifloxystrobin	Trifloxystrobin acid (E,E) (CGA-321113)	Triflumezopyrim
Triflumizole	Triflumuron	Trifluralin
Triflusulfuron-methyl	Triforine	Trimethacarb, 2,3,5-
Trimethacarb, 3,4,5-	Trinexapac-ethyl	Triptolide
Triticonazole	Triticonazole hydroxy methyl (RPA-404886)	Tritosulfuron
Uniconazole	Valifenalate	Vamidothion
Vamidothion sulfone	Verbenone	Vernolate
Vinclozolin_metabolite_M2	Warfarin	XMC (3,5-Xylyl methyl carbamate)
Xylylcarb	Zinophos	Zoxamide
Zytron		



Occurrence of Emerging Contaminants in Drinking Water Using Non-Targeted Analysis

Chemical Screening Library: List of Chemicals

Pharmaceuticals and Personal Care Products

10-hydroxy-amitriptyline	17-OH progesterone	21-OH progesterone
22-OH-mifepristone	2-hydroxy-ibuprofen	2-Hydroxyquinoline
2-oxindole	4-ethoxybenzaldehyde	6 beta-hydroxy dutasteride
Abacavir	Acarbose	Acebutolol
Acesulfame	Acetaminophen	Acetazolamide
Acetylcysteine	Acetylsalicylic acid	Acetyl-Sulfamethoxazole
Acitretin	Acyclovir	Albuterol
Aldosterone	Alendronate	Alfuzosin
Allopurinol	Alprazolam	Amantadine
Amiloride	Aminosalicylic acid	Amiodarone
Amitriptyline	Amlodipine	Amoxicillin
Amphetamine	Amphetamine sulfate	Ampicillin
Anastrozole	Androstenedione	Anhydrochlortetracycline
Anhydro-Erythromycin	Anhydrotetracycline	Apocynin
Aripiprazole	Artemether	Atazanavir
Atenolol	Atorvastatin	Atropine
Azathioprine	Azithromycin	bacitracin A
bacitracin B	bacitracin C	Baclofen
Benazepril	Bendroflumethiazide	Benzonatate
Benzoyllecgonine	Benztropine	Betamethasone
Betaxolol	Bicalutamide	Bisoprolol
Bromocriptine	Bromocriptine mesylate	Budesonide
Buprenorphine solution	Bupropion	Buspirone
Busulfan	Butalbital	Caffeine
Canagliflozin	Candesartan cilexetil	Cannabidiol (CBD)
Cannabinol (CBN)	Capecitabine	Captopril
carbadox	Carbamazepine	Carbidopa
Carisoprodol	Carvedilol	Cefaclor
Cefadroxil	Cefapirin	Cefdinir
Cefixime	Cefprozil	Ceftiofur
Cefuroxime	Celecoxib	Cephalexin
Cetirizine	cetylpyridinium	Chlorhexidine
Chloroquine	Chlorothiazide	Chlorphenamine Maleate
Chlorpheniramine	Chlorpromazine	Chlortetracycline
Chlorthalidone	Cimetidine	Cinacalcet
Cinoxacin	Ciprofloxacin	Citalopram



Occurrence of Emerging Contaminants in Drinking Water Using Non-Targeted Analysis

Chemical Screening Library: List of Chemicals

Pharmaceuticals and Personal Care Products, continued

Citral	Clarithromycin	Clavulanate
Clavulanate Lithium	Clemastine	Climbazole
Clindamycin	Clobetasol	Clomipramine
Clonazepam	Clonidine	Clopidogrel
Clorazepate	Clotrimazole	Clozapine
Cocaine	Codeine	Colchicine
Corticosterone	Cortisol	Cortisone
Cotinine	Cromolyn	Cyclobenzaprine
Cyclobenzaprine Hydrochloride	Cyclophosphamide	Cyclophosphamide monohydrate
Cyclosporine	Cyproheptadine	Darunavir
Deflazacort	Dehydroepiandrosterone	Dehydroepiandrosterone sulfate
Delta-9-THC	Demeclocycline	Desloratadine
Desmethyl Citalopram	Desmethyldiltiazem	Desmethylertraline
Desogestrel	Desvenlafaxine	Dexamethasone
Dextroamphetamine	dextromethorphan	Diazepam
Diclofenac	Dicloxacillin	Dicyclomine
Dicyclomine hydrochloride	Didanosine	Digoxin
Dihydrocodeine	Dihydrostreptomycin	Dihydrotestosterone
Dilantin	Diltiazem	Dimetridazole
Diphenhydramine	Diphenoxylate	Dipyridamole
Disopyramide	Disulfiram	Docusate
Docusate sodium	Donepezil	Doxazosin
Doxazosin Mesylate	Doxepin	Doxepin hydrochloride
Doxycycline	Dronabinol ((-)-trans-Δ9-THC) solution	Drospirenone
Duloxetine	Dutasteride	Efavirenz
Emtricitabine	Enalapril	Enrofloxacin
Epichlortetracycline	Epitetracycline	Eprosartan
Erythromycin	Escitalopram	Esomeprazole
Esomeprazole sodium	Estradiol	Estriol
Estrone	Estrone sulfate	Eszopiclone
Ethacrynic acid	Ethambutol	Ethinyl estradiol
Ethinodiol	Etidronate disodium	Etodolac
Etonogestrel	Etoposide	Everolimus
Exemestane	Ezetimibe	Famciclovir
Famotidine	Felbamate	Felodipine
Fenofibrate	Fenofibric acid	Fenoprofen

Chemical Screening Library: List of Chemicals

Pharmaceuticals and Personal Care Products, continued

Fentanyl	Fexofenadine	Finasteride
Flecainide	Florfenicol	Fluconazole
Fludrocortisone	Fludrocortisone acetate	Fluocinonide
fluoxetine	Fluoxymesterone	Fluphenazine
Flurazepam	Flutamide	Fluticasone propionate
Fluvastatin	Fluvoxamine	Fosfomycin
Furosemide	Gabapentin	Ganciclovir
Gemfibrozil	Gentamicin C1	Gentamicin C1a
Gentamicin C2	Glipizide	Glyburide
Guaifenesin	Guanfacine	Guanfacine Hydrochloride
Guvacoline	Haloperidol	Heroin
Hydralazine	Hydralazine hydrochloride	Hydrochlorothiazide
Hydrocodone	Hydrocortisone	Hydromorphone solution
Hydroxychloroquine	Hydroxyzine	hygromycin B
Ibuprofen	Iminostilbene	Imipramine
Indinavir	Indomethacin	Iohexol
Iopamidol	Iopromide	Irbesartan
Isoniazid	Isosorbide dinitrate	Isosorbide mononitrate
Itraconazole	Ivermectin B1a	Ketoconazole
Ketoprofen	Labetalol	Lamivudine
Lamotrigine	Lansoprazole	Letrozole
Levetiracetam	Levodopa	Levofloxacin
Levonorgestrel	Levorphanol	Levothyroxine
Lidocaine	Lincomycin	Linezolid
Liothyronine	Lisdexamfetamine	Lisinopril
Lomefloxacin	Loperamide	Loperamide hydrochloride
Lopinavir	Loratadine	Lorazepam
Losartan	Lovastatin	Loxapine
Lumefantrine	Maprotiline	Maprotiline hydrochloride
Maraviroc	Meclizine	Meclizine Dihydrochloride
Meclofenamate	Medroxyprogesterone	Mefenamic acid
Mefloquine	Megestrol acetate	Meloxicam
Melphalan	Memantine	Memantine hydrochloride
Meperidine solution	Meprobamate	Meropenem
Mesalamine	Metaxalone	Metformin
Methadone solution (+/-)	Methamphetamine	Methamphetamine hydrochloride

Chemical Screening Library: List of Chemicals

Pharmaceuticals and Personal Care Products, continued

Methimazole	Methocarbamol	Methotrexate
Methyldopa	Methylenedioxymethamphetamine (MDMA)	Methylphenidate
Methylprednisolone	Methyltestosterone	Metoclopramide
Metoprolol	Metronidazole	Miconazole
Mifepristone	Minocycline	Minocycline hydrochloride
Mirtazapine	Misoprostol	Misoprostol acid
Mitotane	Moclobemide	Modafinil
Montelukast	Morphine solution	Moxifloxacin
Moxifloxacin hydrochloride	Mycophenolate mofetil	Mycophenolic acid
N,N-didesmethyl-mifepristone	Nabumetone	Nadolol
Nalidixic acid	Naloxone	Naltrexone
Naproxen	Narasin	N-desmethyl-mifepristone
Nebivolol	Nefazodone	Nelfinavir
Neomycin	Neomycin B	Neomycin B Sulfate
Netilmicin	Nevirapine	Nifedipine
Nilutamide	Nimodipine	Nitrofurantoin
Nizatidine	Noratropine	Norethindrone
Norfloxacin	Norfluoxetine	Norgestimate
Norgestrel	Nortriptyline	Nortriptyline Hydrochloride
Norverapamil	Nystatin	Ofloxacin
Olanzapine	Olmesartan medoxomil	Omeprazole
Ondansetron	Orlistat	Orphenadrine
Oseltamivir	Oseltamivir Acid	Oseltamivir phosphate
Oxaprozin	Oxazepam	Oxcarbazepine
Oxolinic acid	Oxybenzone	Oxybutynin
Oxycodone	Oxymorphone	Oxytetracycline
Paliperidone	Palonosetron	Pantoprazole
Paroxetine	Penciclovir	Penicillin G
Penicillin V	Pentoxifylline	Peramivir
Perindopril	Perphenazine	Phenazone
Phendimetrazine	Phentermine solution	Phenyltoloxamine
Phenyltoloxamine Citrate	Phenytoin	Pioglitazone
Piperacillin	Piperine	Piroxicam
Pramipexole	Pravastatin	Pravastatin Sodium
Prednisolone	Prednisone	Pregnenolone
Primidone	Prochlorperazine	Progesterone

Chemical Screening Library: List of Chemicals

Pharmaceuticals and Personal Care Products, continued

Promethazine	Propafenone	Propoxyphene
Propranolol	Propylthiouracil	Propyphenazone
Pseudoephedrine	Pyrimethamine	Quetiapine
Quinapril	Quinidine	Quinine
Rabeprazole	Rabeprazole Sodium Salt	Raloxifene
Raltegravir	Ramipril	Ranitidine
Remdesivir	Rifampicin	Rifampin
Rifaximin	Risperidone	Ritonavir
Rivaroxaban	Rizatriptan	Rizatriptan benzoate
Ropinirole	Rosuvastatin	Roxithromycin
Saquinavir	Sarafloxacin	Selegiline
Selegiline Hydrochloride	Sertraline	Sildenafil
Simvastatin	Sitagliptin	Sodium cromoglicate
Sodium oxybate	Sotalol	Sparfloxacin
Spectinomycin	Spiramycin II	Spiramycin III
Spironolactone	Sucralose	Sulfachlorpyridazine
Sulfadiazine	Sulfadimethoxine	Sulfamerazine
Sulfamethazine	Sulfamethizole	Sulfamethoxazole
Sulfamethoxydiazine (sulfameter)	Sulfapyridine	Sulfasalazine
Sulfathiazole	Sulindac	Sulpiride
Sumatriptan	Tadalafil	Tamoxifen
Tamsulosin	Tapentadol	Telithromycin
Telmisartan	Temazepam	Tenofovir
Terazosin	Terbutaline	Testosterone
Tetracycline	Theophylline	Thiamphenicol
Thioridazine	Thyroxine	Tiamulin
Ticagrelor	Ticlopidine	Tilmicosin
Timolol	Timolol Maleate	Tiotropium bromide
Tizanidine	Topiramate	Tramadol
Trazodone	Triamcinolone	Triamterene
Triethyl citrate	Trifluoperazine	Trihexyphenidyl
Trihexyphenidyl Hydrochloride	Trimethoprim	Trimipramine
Triphenylphosphine oxide	Tylosin	Valacyclovir
Valproic acid	Valsartan	Vancomycin
Vardenafil	Vardenafil Dihydrochloride	Venlafaxine
Verapamil	Vitamin E	Warfarin
Zalcitabine	Zidovudine	Zolpidem



Occurrence of Emerging Contaminants in Drinking Water Using Non-Targeted Analysis

Chemical Screening Library: List of Chemicals

Per- and Polyfluoroalkyl Substances (PFAS)

((Perfluorooctyl)ethyl)phosphonic acid	(Perfluorobutyl)-2-thenoylmethane	1,1,1,5,5,5-Hexafluoroacetylacetone
11:1 Fluorotelomer alcohol	11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	1H,1H,5H-Perfluoropentanol
1H,1H,7H-Dodecafluoro-1-heptanol	1H,1H,8H,8H-Perfluoro-3,6-dioxaoctane-1,8-diol	1H,1H-Heptafluorobutanol
2-(N-Ethylperfluorooctanesulfonamido)acetic acid	2-(N-Methylperfluorooctanesulfonamido)acetic acid	2-(Perfluorohexyl)ethylphosphonic acid
3-(Perfluorohexyl)-1,2-epoxypropane	3-(Perfluoroisopropyl)-2-propenoic acid	3,3,4,4,5,5,6,6,6-Nonafluorohexene
3,3-Bis(trifluoromethyl)-2-propenoic acid	3:3 Fluorotelomer carboxylic acid	3H,3H-Perfluoro-2,4-hexanedione
3-Perfluoroheptylpropanoic acid	4:2 Fluorotelomer sulfonic acid	4H-Perfluorobutanoic acid
6:1 Fluorotelomer alcohol	6:2 Fluorotelomer alcohol	6:2 Fluorotelomer sulfonic acid
6H-Perfluorohex-1-ene	8:2 Fluorotelomer alcohol	8:2 Fluorotelomer sulfonic acid
9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	Allyl perfluoroisopropyl ether
Dodecafluoro-3H-4,8-dioxanonanoate	Flurothyl	Heptafluorobutyramide
Hexafluoroamylene glycol	Hexafluoropropylene oxide dimer acid	Methyl perfluorohexanoate
N-Ethylperfluorooctanesulfonamide	N-methylperfluoro-1-octanesulfonamide	N-Methylperfluorooctanesulfonamide
Nonafluoropentanamide	Octafluoroadipamide	Perfluoro(4-methoxybutanoic) acid
Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid	Perfluoro-2-methyl-3-oxahexanoic acid	Perfluoro-3-(1H-perfluoroethoxy)propane
Perfluoro-3,6,9-trioxatridecanoic acid	Perfluoro-3,6-dioxaheptanoic acid	Perfluoro-3,6-dioxaoctane-1,8-dioic acid
Perfluoro-3-methoxypropanoic acid	Perfluoro-4-isopropoxybutanoic acid	Perfluorobutanesulfonamide
Perfluorobutanesulfonic acid	Perfluorobutanesulfonyl fluoride	Perfluorobutanoic acid
Perfluorobutyraldehyde	Perfluorodecanesulfonic acid	Perfluorodecanoic acid
Perfluorododecanoic acid	Perfluoroheptanesulfonic acid	Perfluoroheptanoic acid
Perfluorohexadecanoic acid	Perfluorohexanesulfonamide	Perfluorohexanesulfonic acid
Perfluorohexanoic acid	Perfluorononanesulfonic acid	Perfluorononanoic acid
Perfluorooctanamide	Perfluorooctane sulfonamido amine	Perfluorooctanesulfonamide
Perfluorooctanesulfonic acid	Perfluorooctanoic acid	Perfluoropentanamide
Perfluoropentanesulfonic acid	Perfluoropentanoic acid	Perfluoropropanoic acid
Perfluorostearic acid	Perfluorotetradecanoic acid	Perfluorotridecanoic acid
Perfluoroundecanoic acid	Sevoflurane	



Occurrence of Emerging Contaminants in Drinking Water Using Non-Targeted Analysis

Chemical Screening Library: List of Chemicals

Other Emerging Contaminants

[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]trimethylsilane	1,1,3,3,5,5,7,7,9,9,11,11,13,13,15,15 -Hexadecamethyloctasiloxane	1,1,3,3,5,5,7,7,9,9-Decamethylpentasiloxane
1,3-Di-tert-butylbenzene	1-Cyclohexylethanone	2-(2-Hydroxy-5-methylphenyl)benzotriazole
2,4-Di-tert-butylphenol	2-Ethylhexanoic acid	3,5-Di-tert-butyl-4- hydroxybenzyl alcohol
6-PPD	6-PPD-quinone	ASTM D6042 Calibration Mix
Benzoic acid	Benzyl butyl phthalate	BHT
Bis(2-ethoxyethyl)phthalate	Bis(2-ethylhexyl) adipate	Bis(2-methoxyethyl)phthalate
Bis(2-n-butoxyethyl)phthalate	Bis(4-methyl-2-pentyl)phthalate	Bisphenol A
Decamethylcyclopentasiloxane	Dibenzylamine	Dibutyl sebacate
Diethyl phthalate	Diethylphthalate	Dimethylphthalate
Di-n-butylphthalate	Di-n-hexyl phthalate	Di-n-octyl phthalate
Dipentylphthalate	Diphenyl phthalate	Dodecamethylcyclohexasiloxane
Dodecamethylpentasiloxane	Erucamide slip	Extractables and Leachables Silicone List
Irgafos 168	Irganox 1010	Irganox 1076
Irganox 1098	Irganox 245	Irganox 3114
Methylparaben	Octamethylcyclotetrasiloxane	Oleamide
Phthalic acid dicyclohexyl ester	Phthalic acid diisobutyl ester	Propylparaben
Stearic acid	Tetradecamethylhexasiloxane	Tinuvin P
Tris(1-aziridinyl) phosphineoxide (TEPA)	Tris(2,3-dibromopropyl) phosphate (TRIS)	Tris(2-chloroethyl) phosphate (TCEP)
Tris(p-cresyl) phosphate (TCP)	ε-Caprolactam	