



Multiresidue Pesticide Standards

- Pesticide standards designed to work within the EPA, AOAC, and FDA analytical testing methods
- Custom pesticide standards available



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Multiresidue Pesticide Standards

National and international regulatory and standards organizations are tasked with the monitoring of environmental systems, agricultural products, and consumer goods as they pertain to contamination and human health. Groups such as EPA, USDA, AOAC, ASTM, FDA, and USP offer methods and guidance for the analysis of products like food, beverages, nutraceuticals, and botanicals.

One group of chemicals of high concern are the hundreds of commercial pesticides and herbicides in use in the world today. It is essential that monitoring agencies have accurate standard mixes to measure pesticide residue levels in consumer products and food, like our morning tea, spices, or botanical supplements.

At Spex, we facilitate ease of monitoring and testing of pesticides by creating pesticide test mixes to suit your monitoring needs. Spex CertiPrep is a leader in offering pesticide standards designed to work within the EPA, AOAC, and FDA analytical testing methods using all the significant analytical techniques. Gas chromatography and mass spectrometry are well established techniques for many pesticide analyses. Spex now offers GC mixes with over 200 compounds that allow the analyst to create references for all the most commonly used GC and GC/MS amenable pesticides in use in agriculture.



Organic Certified
Reference Materials



Designed for pesticide
testing and analysis



Supplied with a
Certificate of Analysis



ISO Accredited
Standards

Multiresidue Pesticide Standards

Multiresidue Organophosphorus Pesticide Standard 1 in Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Azinphos-ethyl	2642-71-9	Fenitrothion	122-14-5	Pyraclufos	77458-01-6
Azinphos-Methyl	86-50-0	Imidan (Phosmet)	732-11-6	Pyrazophos	13457-18-6
Chlorpyrifos	2921-88-2	Isazophos	42509-80-8	Pyridaphenthion	119-12-0
Chlorpyrifos-methyl	5598-13-0	Phosalone	2310-17-0	Quinalphos	13593-03-8
Diazinon	333-41-5	Pirimiphos-ethyl	23505-41-1		
EPN	2104-64-5	Pirimiphos-methyl	29232-93-7		
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MROP-1	

Multiresidue Organophosphorus Pesticide Standard 2 in HPLC Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Bromfenvinfos	33399-00-7	Edifenphos	17109-49-8	Phenamiphos	22224-92-6
Bromfenvinphos-methyl	13104-21-7	Ethion	563-12-1	Profenofos	41198-08-7
Bromophos-ethyl	4824-78-6	Fenchlorphos	299-84-3	Sulfotepp (Tetraethyl dithiopyrophosphate)	3689-24-5
Bromophos-methyl	2104-96-3	Fenthion	55-38-9	Sulprofos	35400-43-2
Carbophenothion	786-19-6	Iodofenphos	18181-70-9	Terbufos	13071-79-9
Chlorfenvinfos	470-90-6	Leptophos	21609-90-5	Tetrachlorvinphos	22248-79-9
Chlorthiophos	60238-56-4	Malathion	121-75-5	Tokuthion (Prothiophos)	34643-46-4
Coumaphos	56-72-4	Methacrifos	62610-77-9	Tolclofos-methyl	57018-04-9
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MROP-2	

Multiresidue Pesticide Standards

Multiresidue Organophosphorus Pesticide Standard 3 in Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Disulfoton	298-04-4	Mevinphos	7786-34-7	Piperonyl butoxide	51-03-6
Dyfonate (Fonofos)	944-22-9	Parathion	56-38-2	Triazophos	24017-47-8
Methyl parathion	298-00-0	Phorate	298-02-2		
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MROP-3	

Multiresidue Organochlorine Pesticide Standard 1 in Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Aldrin	309-00-2	p,p'-DDT	50-29-3	Isodrin	465-73-6
alpha-BHC	319-84-6	4,4'-Dichlorobenzophenone	90-98-2	o,p'-Methoxychlor	30667-99-3
beta-BHC	319-85-7	Dieldrin	60-57-1	p,p'-Methoxychlor-olefin	2132-70-9
delta-BHC	319-86-8	Endosulfan I	959-98-8	Methyl pentachlorophenyl sulfide	1825-19-0
gamma-BHC	58-89-9	Endosulfan II	33213-65-9	Mirex	2385-85-5
Chlorbenside	103-17-3	Endosulfan ether	3369-52-6	cis-Nonachlor	5103-73-1
alpha-Chlordane	5103-71-6	Endosulfan sulfate	1031-07-8	trans-Nonachlor	39765-80-5
gamma-Chlordane	5103-74-2	Endrin	72-20-8	Ovex	80-33-1
Chloroneb	2675-77-6	Endrin aldehyde	7421-93-4	2,3,4,5,6-Pentachloroanisole	1825-21-4
o,p'-DDD	53-19-0	Endrin ketone	53494-70-5	Pentachlorobenzene	608-93-5
p,p'-DDD	72-54-8	Fenson	80-38-6	Perthane	72-56-0
o,p'-DDE	3424-82-6	Heptachlor	76-44-8	Tetradifon	116-29-0
p,p'-DDE	72-55-9	Heptachlor epoxide (Isomer B)	1024-57-3		
o,p'-DDT	789-02-6	Hexachlorobenzene	118-74-1		
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MROC-1	

Multiresidue Pesticide Standards

Multiresidue Organonitrogen Pesticide Standard 1 in Toluene:Acetonitrile (99:1)

Component	CAS #	Component	CAS #	Component	CAS #
Benfluralin	1861-40-1	Fluchloralin	33245-39-5	Profluralin	26399-39-0
Biphenyl	92-52-4	Isopropalin	33820-53-0	Prowl® (Pendimethalin)	40487-42-1
Chlorothalonil	1897-45-6	Nitralin	4726-14-1	2,3,5,6-Tetrachloroaniline	3481-20-7
Dichlofluanid	1085-98-9	Nitrofen	1836-75-5	1,2,4,5-Tetrachloro-3-nitrobenzene	117-18-0
Dichloran	99-30-9	Oxyfluorfen	42874-03-3	cis-1,2,3,6-Tetrahydrophthalimide	1469-48-2
Dichlobenil	1194-65-6	Pentachloroaniline	527-20-8	Tolyfluanid	731-27-1
3,4-Dichloroaniline	95-76-1	Pentachlorocyanobenzene	20925-85-3	Trifluralin	1582-09-8
Diphenylamine	122-39-4	Pentachloronitrobenzene	82-68-8		
Ethalfuralin	55283-68-6	Prodiamine	29091-21-2		
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MRON-1	

Multiresidue Organonitrogen Pesticide Standard 2 in Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Acetochlor	34256-82-1	Flutolanil	66332-96-5	Prochloraz	67747-09-5
Alachlor	15972-60-8	Linuron	330-55-2	Propachlor	1918-16-7
Allidochlor	93-71-0	Metazachlor	67129-08-2	Propanil	709-98-8
Clomazone	81777-89-1	Methoxychlor	72-43-5	Propisochlor	86763-47-5
Cycloate	1134-23-2	Metolachlor	51218-45-2	Propyzamide	23950-58-5
Di-allate (mix of isomers)	2303-16-4	N-(2,4-Dimethylphenyl) formamide	60397-77-5	Pyridaben	96489-71-3
Dimethachlor	50563-36-5	Norflurazon	27314-13-2	Tebufenpyrad	119168-77-3
Diphenamid	957-51-7	Oxadiazon	19666-30-9	Tri-allate	2303-17-5
Fenpropathrin	39515-41-8	Pebulate	1114-71-2		
Fluquinconazole	136426-54-5	Pretilachlor	51218-49-6		
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MRON-2	

Multiresidue Pesticide Standards

Multiresidue Organonitrogen Pesticide Standard 3 in Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Atrazine	1912-24-9	Flusilazole	85509-19-9	Pyrimethanil	53112-28-0
Baytan (Triadimenol)	55219-65-3	Flutriafol	76674-21-0	Pyriproxifen	95737-68-1
Beam	41814-78-2	Folicur	107534-96-3	Sonar/Fluoridone	59756-60-4
Bupirimate	41483-43-6	Folpet	133-07-3	Sythane® (Myclobutanil)	88671-89-0
Captafol	2425-06-1	Hexazinone	51235-04-2	Terbacil	5902-51-2
Captan	133-06-2	Iprodione	36734-19-7	Terbutylazine	5915-41-3
Chlorfenapyr	122453-73-0	Lenacil	2164-08-1	Terrazole	2593-15-9
Cyprodinil	121552-61-2	MGK 264™	113-48-4	Triadimefon	43121-43-3
Etofenprox	80844-07-1	Paclobutrazol	76738-62-0	Triflumizole	68694-11-1
Fenarimol	60168-88-9	Penconazole	66246-88-6	Vinclozolin	50471-44-8
Fipronil	120068-37-3	Procymidone	32809-16-8		
Fludioxonil	131341-86-1	Propargite	2312-35-8		
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MRON-3	

Multiresidue Synthetic Pyrethroid Pesticide Standard 1 in Toluene

Component	CAS #	Component	CAS #	Component	CAS #
Acrinathrin	101007-06-1	Cypermethrin	52315-07-8	trans-Permethrin	61949-77-7
Allethrin	584-79-2	Deltamethrin	52918-63-5	d-(cis-trans)-Phenothrin	26002-80-2
Anthraquinone	84-65-1	Fenvalerate	51630-58-1	Resmethrin	10453-86-8
Baythroid® (Cyfluthrin)	68359-37-5	Flucythrinate	70124-77-5	Tefluthrin	79583-32-2
Bifenthrin	82657-04-3	tau-Fluvalinate	102851-06-9	Tetramethrin	7696-12-0
lambda-Cyhalothrin	91465-08-6	cis-Permethrin	61949-76-6	Transfluthrin	118712-89-3
		Concentration	Volume	Part #	
		100 µg/mL for each component	1 mL	SPX-MRSP-1	

