

Supplementary material

Table S1. Chemical names, molecular formulas, CAS numbers, and molecular weight of the studied pollutants.

Pesticides and Pharmaceuticals	Analyte	Molecular Formula	CAS number	Molecular Weight (g/mol)
Organochlorine pesticides	α -, β -, γ -, δ -hexachlorocyclohexanes (HCH)	C ₆ H ₆ Cl ₆	319-84-6 319-85-7 319-86-8	290.8
	Hexachlorobenzene (HCB)	C ₆ Cl ₆	118-74-1	284.8
	1-Chloro-2-[2,2,2-trichloro-1-(4-chlorophenyl)ethyl]benzene (o,p'-DDT)	C ₁₄ H ₉ Cl ₅	50-29-3	354.5
	[2,2bis(p-chlorophenyl)-1,1-dichloroethylene] (p,p'-DDE)	C ₁₄ H ₈ Cl ₄	72-55-9	318.0
	Tetrachlorodiphenylethane (p,p'-DDD)	C ₁₄ H ₁₀ Cl ₄	72-54-8	320.0
	Aldrin	C ₁₂ H ₈ Cl ₆	309-00-2	364.9
	Dieldrin	C ₁₂ H ₈ Cl ₆ O	60-57-1	380.9
	Endrin	C ₁₂ H ₈ Cl ₆ O	72-20-8	380.9
	α , β -Endosulfan	C ₉ H ₆ Cl ₆ O ₃ S	959-98-8 33213-65-9	406.9
	Methoxychlor	C ₁₆ H ₁₅ Cl ₃ O ₂	72-43-5	345.6
Organophosphorus pesticides	Dimethoate	C ₅ H ₁₂ NO ₃ PS ₂	60-51-5	229.3
	Diazinon	C ₁₂ H ₂₁ N ₂ O ₃ PS	333-41-5	304.35
	Chlorpyrifos-methyl	C ₇ H ₇ Cl ₃ NO ₃ PS	5598-13-0	322.5
	Parathion-methyl	C ₈ H ₁₀ NO ₃ PS	298-00-0	263.21
	Malathion	C ₁₀ H ₁₉ O ₆ PS ₂	121-75-5	330.4
	Chlorpyrifos	C ₉ H ₁₁ Cl ₃ NO ₃ PS	2921-88-2	350.6
	Chlorfenvinphos	C ₁₂ H ₁₄ Cl ₃ O ₄ P	470-90-6	359.6
Psychiatric drugs and its metabolites	Carbamazepine	C ₁₅ H ₁₂ N ₂ O	298-46-4	236.27
	Citalopram	C ₂₀ H ₂₁ FN ₂ O	59729-33-8	324.40
	Diazepam	C ₁₆ H ₁₃ ClN ₂ O	439-14-5	284.74
	Fluoxetine hydrochloride	C ₁₇ H ₁₉ ClF ₃ NO	56296-78-7	345.79
	Paroxetine hydrochloride	C ₁₉ H ₂₁ ClFNO ₃	78246-49-8	365.83
	Sertraline hydrochloride	C ₁₇ H ₁₈ Cl ₃ N	79559-97-0	342.69
	Trazodone hydrochloride	C ₁₉ H ₂₃ Cl ₂ N ₅ O	19666-36-5	408.33
	Venlafaxine hydrochloride	C ₁₇ H ₂₈ ClNO ₂	99300-78-4	313.87

Pharmaceuticals used in Alzheimer's and Parkinson's diseases	Citalopram N-oxide hydrochloride (Citalopram metabolite)	$C_{20}H_{22}ClFN_2O_2$	62498-71-9	376.86
	Citalopram propionic acid (Citalopram metabolite)	$C_{18}H_{14}FNO_3$	Not Available	311.31
	Demethylcitalopram hydrochloride (Citalopram metabolite)	$C_{19}H_{20}ClFN_2O$	97743-99-2	346.83
	Didemethylcitalopram hydrochloride (Citalopram metabolite)	$C_{18}H_{18}ClFN_2O$	1189694-81-2	332.80
	O-Desmethylvenlafaxine (Venlafaxine metabolite)	$C_{16}H_{25}NO_2$	93413-62-8	263.38
	10,11-Epoxy carbamazepine (Carbamazepine metabolite)	$C_{15}H_{12}N_2O_2$	36507-30-9	252.27
	Norfluoxetine hydrochloride (Fluoxetine metabolite)	$C_{16}H_{17}ClF_3NO$	57226-68-3	331.76
	Norsertaline hydrochloride (Sertraline metabolite)	$C_{16}H_{16}Cl_3N$	675126-08-6	328.66
	Amantadine hydrochloride	$C_{10}H_{17}N HCl$	665-66-7	187.71
	Apomorphine hydrochloride	$C_{17}H_{17}NO_2 HCl \cdot \frac{1}{2}H_2O$	41372-20-7	312.79
	Benserazide hydrochloride	$C_{10}H_{15}N_3O_5 HCl$	14919-77-8	293.70
	Carbidopa	$C_{10}H_{14}N_2O_4 H_2O$	38821-49-7	244.24
	Entacapone	$C_{14}H_{15}N_3O_5$	130929-57-6	305.29
	R(-)-Deprenyl hydrochloride (Selegiline hydrochloride)	$C_{13}H_{17}N HCl$	14611-52-0	223.74
	Donepezil hydrochloride	$C_{24}H_{29}NO_3 HCl$	120011-70-3	415.95
	Galanthamine hydrochloride	$C_{17}H_{21}NO_3 HBr$	1953-04-4	368.27
	Pramipexole dihydrochloride monohydrate	$C_{10}H_{17}N_3S \cdot 2HCl \cdot H_2O$	191217-81-9	302.26
	Safinamide mesylate salt	$C_{17}H_{19}FN_2O_2 \cdot xCH_4O_3S$	202825-46-5	302.34
	Rasagiline mesylate	$C_{12}H_{13}N \cdot CH_4O_3S$	161735-79-1	267.34
	Rivastigmine hydrogen tartrate	$C_{14}H_{22}N_2O_2 \cdot C_4H_6O_6$	129101-54-8	400.42
	Ropinirole hydrochloride	$C_{16}H_{24}N_2O HCl$	91374-20-8	296.84
	Rotigotine hydrochloride	$C_{19}H_{25}NOS \cdot HCl$	125572-93-2	351.93