

## Supporting Information

### **Hierarchically Micro- and Mesoporous Metal-Organic Framework-Based Magnetic Nanospheres for Nontargeted Analysis of Chemical Hazards in Vegetables**

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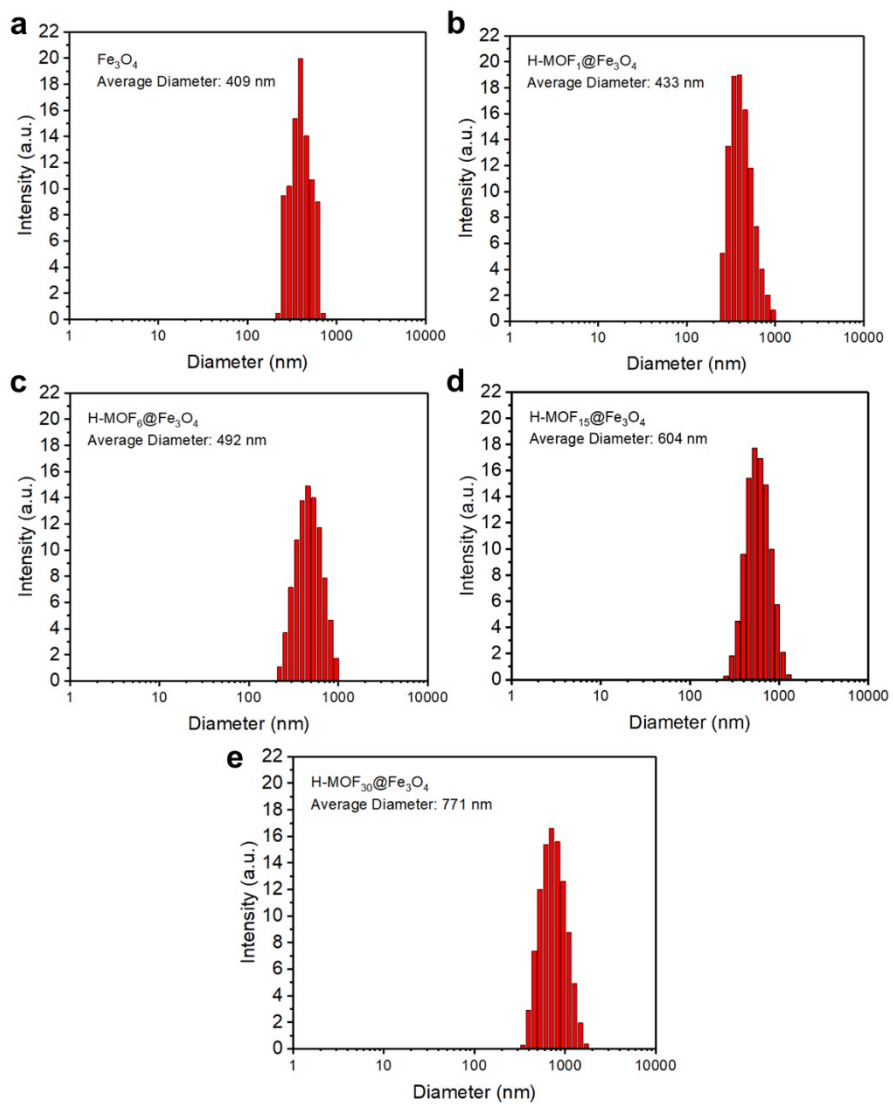
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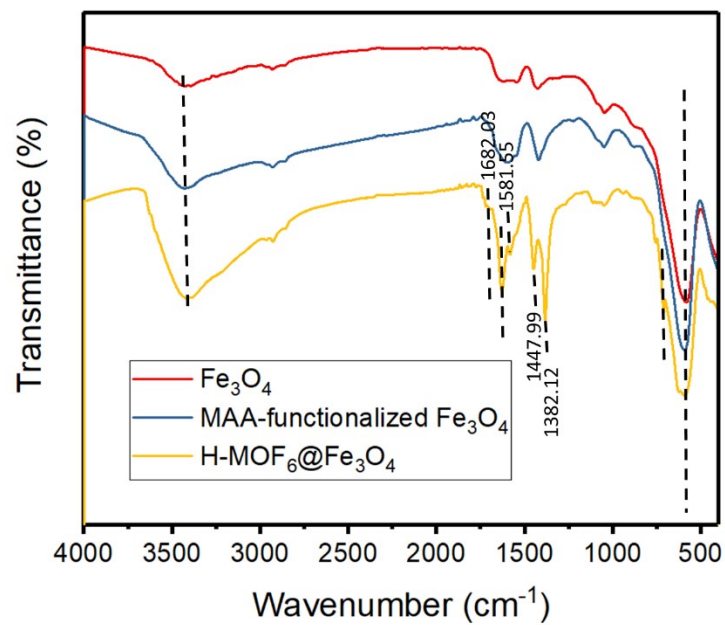
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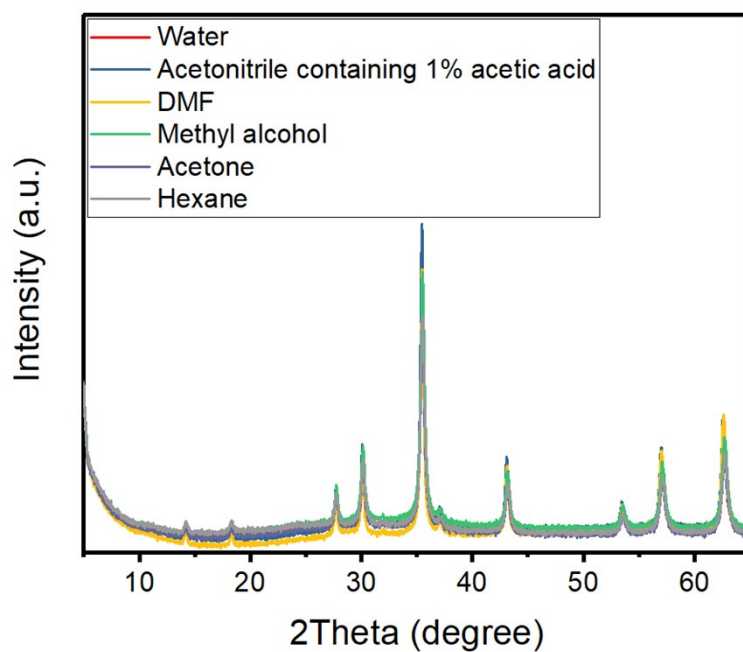
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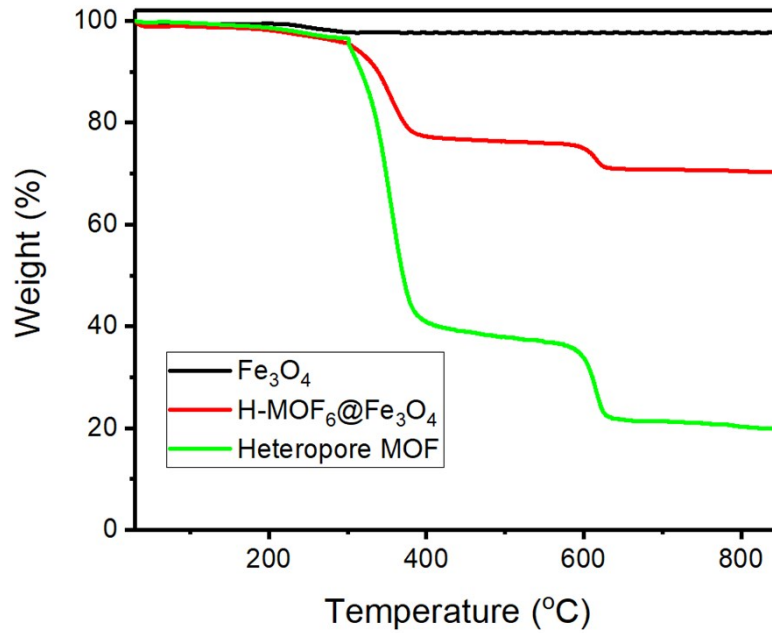
**Figure S1.** Size distribution of (a)  $\text{Fe}_3\text{O}_4$ , (b) H-MOF<sub>1</sub>@ $\text{Fe}_3\text{O}_4$ , (c) H-MOF<sub>6</sub>@ $\text{Fe}_3\text{O}_4$ , (d) H-MOF<sub>15</sub>@ $\text{Fe}_3\text{O}_4$  and (e) H-MOF<sub>30</sub>@ $\text{Fe}_3\text{O}_4$  tested by DLS



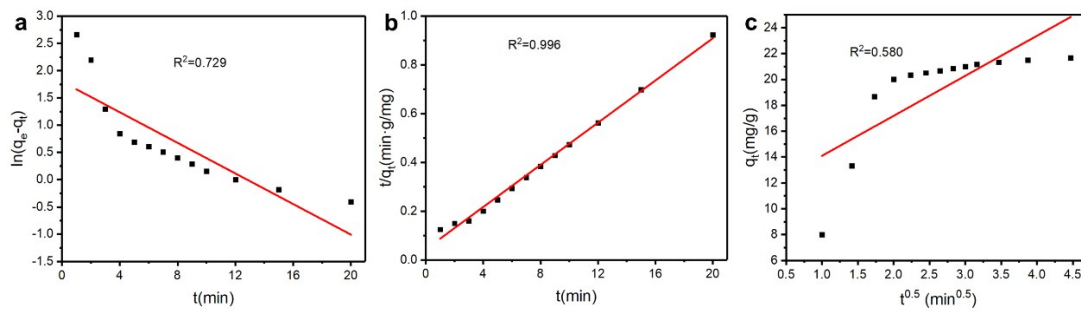
**Figure S2.** FT-IR spectra of  $\text{Fe}_3\text{O}_4$ , MAA-functionalized  $\text{Fe}_3\text{O}_4$  and  $\text{H-MOF}_6@\text{Fe}_3\text{O}_4$  nanospheres.



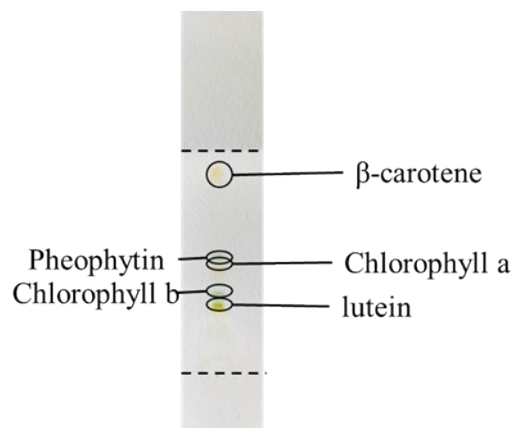
**Figure S3.** PXRD pattern of  $\text{H-MOF}_6@\text{Fe}_3\text{O}_4$  nanospheres after incubated with various solvents.



**Figure S4.** TG analysis of Fe<sub>3</sub>O<sub>4</sub>, MAA-functionalized Fe<sub>3</sub>O<sub>4</sub> and H-MOF<sub>6</sub>@Fe<sub>3</sub>O<sub>4</sub> nanospheres.



**Figure S5.** Chlorophylls adsorption kinetics characterization of MCOFs by (a) pseudo-first-order, (b) pseudo-second-order kinetic models and (c) intra-particle diffusion model



**Figure. S6** Separation of spinach extracts by thin layer chromatography

**Table S1** Conditions of gradient elution(No.1-No.46)

Time (min)	Mobile phase (%)		Flow rate (mL/min)	injected sample volume ( $\mu$ L)
	Water+0.1% FA	Methanol		
0	90	10	0.3	2
0.3	90	10	0.3	2
4.5	45	55	0.3	2
12	45	55	0.3	2
13	30	70	0.3	2
15	30	70	0.3	2
17	0	100	0.3	2
23	0	100	0.3	2
23.1	90	10	0.3	2
25	90	10	0.3	2

**Table S2** Conditions of gradient elution (No.47-No.258)

Time (min)	Mobile phase (%)		Flow rate (mL/min)	injected sample volume ( $\mu$ L)
	Water+0.1% FA	Methanol		
0	98	2	0.3	5
0.25	98	2	0.3	5
20	1	99	0.3	5
25	1	99	0.3	5
25.1	98	2	0.3	5
30	98	2	0.3	5

**Table S3** MRM transitions and other LC-MS/MS parameters

Analytes	Serial number	Retention time (min)	Precursor ion	Confirmation ion <sup>(a)</sup>	Quantification ion <sup>(a)</sup>	Fragmentor <sup>(a)</sup>
3-Hydroxycarbofuran	1	6.11	239.1	163.1(22.5)	181.1(38)	50
4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	2	11.9	258	201(15)	122.1(31)	25
Fenpropidin	3	10.7	274.2	147.2(39)	86.2(35)	50
Fenoxycarb	4	13.34	302.1	88(27)	116.1(15)	40
Dichlofenthion	5	17.42	315	259(24)	268.9(15)	38
Trichlorfon	6	5.64	256.9	109(24)	221(14)	35
Propachlor	7	10.81	212.1	170.1(31)	94.1(31)	40
Dioxathion	8	16.84	479	271.1(20)	293.2(19)	35
Tebuthiuron	9	7.60	229.1	172.1(18)	116.1(34)	40
Lontrel	10	3.43	191.9	174(16)	146(30)	43
Dinotefuran	11	12.93	203.1	105.1(34)	91.1(48)	40
Furanthiocarb	12	16.45	383.2	195(27.5)	252.1(18)	33
Bioallethrin	13	16.66	303.2	121.1(27)	149.1(25)	35
Asulam	14	4.80	231	156(15)	108.1(27)	50
Griseofulvin	15	10.40	353.1	165.1(37)	285.1(34)	40
Sulfosulfuron	16	10.69	471.1	211.1(30)	261.1(27)	50
Benoxacor	17	12.21	260	149.1(26)	134.1(41)	58
Bromuconazol	18	12.50	376	159(40)	70.1(54)	60
Butafenacil	19	13.92	475.1	345(35)	331(38)	25
Thiodicarb	20	9.20	355.1	88(20)	108.1(23)	40
Mesurolo	21	11.74	226.1	169.1(17)	121(25)	65
Flazasulfuron	22	11.17	408.1	182.1(30)	301.1(20)	40
Methomyl	23	4.75	163.1	88.1(18)	106.1(18)	33
Aminocarb	24	3.44	209.1	152.1(18)	137.1(32)	31
Ethofenprox	25	19.38	394.3(NH <sub>4</sub> <sup>+</sup> )	177.2(19)	359.3(17)	35
Promecarb	26	12.07	208.2	109.1(21)	151.1(12)	35
Benodanil	27	11.51	324	230.9(28)	105.2(28)	32
Mecarbam	28	13.95	330	199(21)	142.9(35)	31
Diphenamid	29	11.04	240.1	134.1(24.5)	167.1(31.5)	60
Triflumuron	30	14.32	359.1	156(23)	139(45)	40
Tricyclazole	31	6.99	190.1	163(28)	136(37)	65
Propamocarb	32	3.60	189.2	102.1(24)	144.1(18)	43
Cymoxanil	33	7.34	199.1	128.1(13)	111.1(26)	40
Etoxazole	34	17.46	360.2	141.1(45.2)	304.1(24)	70
Altrenogest	35	12.10	311.1	221.1(23)	269.3(23)	56
Tolfenamic acid	36	14.36	262.1	244.1(22)	209.1(39)	40

Aldicarb-sulfone	37	4.45	223.1	148.1(13)	86.1(19)	41
Aldicarb sulfoxide	38	3.57	207	132(12)	89.1(32)	34
DEF 6	39	18.57	315.1	169(20)	259.1(18)	42
Carboxin	40	10.14	236.1	143.1(22)	87(36)	60
Methoprene	41	12.07	311.1	221.1(23)	261.1(26)	47
EPTC	42	13.80	190.1	128.1(17)	86.1(15)	40
Ethiofencarb	43	10.13	226.1	107.1(20)	164.1(11)	40
Ethion	44	17.21	385	199(14.3)	215.1(15.7)	25
Diethofencarb	45	17.47	268	226.2(15)	180.1(24)	35
Triallate	46	11.81	304	86.1(22)	143(36)	45
Mandestrobin	47	14.61	314	192(18)	132(35)	30
Valifenalate	48	11.68	399.1	155(30)	197(20)	30
Chlormequat	49	0.77	122	63(17)	59(17)	30
Fenpyrazamine	50	10.99	332.1	272(14)	304(14)	30
Fenthion	51	14.44	279.1	169.1(16)	247.1(13)	36
Aclonifen	52	14.1	265	248(18)	182(32)	30
Difenoconazole	53	16.3	406	251.1(25)	111.1(60)	46
Phenothrin	54	17.91	351	156(28)	237(12)	30
Saflufenacil	55	7.98	501	349(25)	459(12)	30
Zoxamide	56	14.72	336	159(38)	187.1(25)	38
Fenamiphos	57	13.98	304.1	217.1(24)	202.1(36)	36
Pyraflufen Ethyl	58	14.85	413	338.8(20)	289(27)	30
pyriproxyfen	59	17.11	322.1	96(14)	227.1(14)	32
Haloxyfop	60	16.57	362	91(30)	288(30)	30
Isopyrazam	61	16.28	360.2	320(20)	258(20)	30
Resmethrin	62	17.77	339.2	171(17)	143(25)	30
Propoxycarbazone- sodium	63	5.8	399	199(12)	367(12)	30
Propiconazole	64	14.95	342	159(34)	69(22)	46
Prothioconazole	65	14.96	344	189(20)	326(12)	22
Oxadiazyl	66	15.28	341	151(25)	258(15)	30
Flumioxazin	67	7.71	355.1	298(28)	326(22)	46
Iprovalicarb	68	17.71	321.2	203.1(10)	119.1(16)	30
Methacrifos	69	7.54	241	125(20)	209.1(8)	20
Isoprothiolane	70	10	291.1	230.9(12)	189(22)	30
Tepraloxydim	71	6.01	342.1	250.1(12)	166.1(20)	30
Diuron	72	7.13	233	71.5(15)	45.5(15)	30
Anilazine	73	9.95	274.9	153(26)	178(24)	46
Iodosulfuron-methyl	74	9.45	508.1	167.1(25)	141.1(25)	30
Daminozide	75	1.06	161	143(12)	61(12)	30
Acetamiprid	76	4.24	223	126(20)	56.1(15)	30
Picoxystrobin	77	14.17	368.1	205.1(10)	145.1(22)	20
Carbendazim	78	2.7	192.1	160.1(18)	132.1(28)	30
Sandofan	79	5.04	279.1	219(10)	132(34)	40

Diphenylamine	80	10.82	170.1	93(24)	92(18)	38
Diazinon	81	14.57	305.1	169(22)	97(35)	30
Flutriafol	82	6.72	302.1	122.7(22)	94.7(42)	30
Rimsulfuron	83	6.23	432	182.1(22)	325.1(14)	30
Phosalone	84	15.31	368	181.9(14)	110.9(42)	22
Fluvalinate	85	17.79	503.1	181.1(30)	208.1(12)	24
Fluopyram	86	12.3	397	173(27)	208(20)	30
Fluazinam	87	17.14	464.9	373(26)	338.1(47)	30
Sulfoxaflor	88	4.47	278	174(10)	154(27)	30
Flonicamid	89	3.08	230	203.1(12)	174.1(17)	30
Flusilazole	90	14.09	316.1	247(18)	165(28)	36
Epoxiconazole	91	13.32	330	121(22)	101(50)	34
Tetraconazole	92	13.65	372	70(20)	159(30)	30
Flucythrinate	93	17.32	469	412(10)	198.7(22)	30
Flufenacet	94	12.92	364	194.1(11)	152.1(20)	30
Flutolanil	95	10.37	324.1	262.1(18)	65(40)	30
Procymidone	96	12.08	284	256.1(17)	67.1(28)	30
Thiobencarb	97	15.38	258	125(12)	100(12)	30
Molinate	98	10.13	188.1	126(13)	55(24)	30
Cyproconazole	99	11.81	292.1	69.5(18)	124.6(24)	30
Chromafenozide	100	12.37	395.2	175(22)	339(10)	30
Cyflufenamide	101	15.5	413.1	295.1(15)	203.1(35)	30
Sulcotrione	102	5.37	329	138.8(18)	110.7(27)	30
Metosulam	103	5.89	418	175(28)	140(52)	30
Tolylfluanide	104	14.47	347	137(28)	238(10)	30
Alachlor	105	12.43	270.1	238.1(11)	162.1(20)	30
Metsulfuron methyl	106	5.78	382	167(16)	199(22)	30
Mesosulfuron-methyl	107	6.86	504	182(24)	83(60)	30
Tolclofos-methyl	108	15.35	301	125(17)	175(29)	30
Thiophanate-methyl	109	5.61	343	93(46)	151(22)	30
Carbaryl	110	6.03	202	145(22)	117(28)	30
Metalaxyl	111	7.05	280.1	220.1(13)	192.1(17)	30
Metazachlor	112	6.82	278	134.1(22)	210(10)	30
Tebufenozide	113	14.12	353.1	133(20)	297.1(8)	30
Famoxadone	114	15.3	397	260.9(14)	167.7(16)	30
Emamectin	115	16.42	886.5	158.2(35)	302.2(30)	30
cis and trans-Diallate	116	16.21	270.1	86.1(15)	128.1(11)	30
Chloridazon	117	4.21	222	92(30)	77(30)	30
Pendimethaline	118	17.24	282.1	212.1(10)	194.1(17)	30
Trinexapac-ethyl	119	7.11	253.1	185.1(12)	207.1(12)	30
Spirotetramat	120	12.78	374.2	330.2(15)	302.2(15)	30
Cadusafos	121	15.86	271.1	159(16)	131(22)	30



Quinalphos	122	13.98	299	163(24)	97(30)	30
Orthosulfamuron	123	6.96	425.1	199.1(12)	227.1(15)	30
Cyhalofop-butyl	124	16.57	358.1	256.1(12)	120.1(25)	30
Cyazofamid	125	13.66	325	108(20)	261(10)	30
Lactofen	126	17.09	479	344(15)	223(32)	30
Florasulam	127	4.98	360	129(22)	109(50)	30
Mandipropamid	128	10.18	412.1	328.1(15)	356.1(10)	30
Mesotrione	129	5.74	340	228(18)	104(32)	30
Oxydemeton-methyl	130	2.94	247	168.9(14)	108.9(25)	30
Oxycarboxin	131	4.5	268.1	174.8(16)	146.9(25)	30
Spinetoram L	132	15.79	760.5	142.1(30)	98.1(30)	30
Ethirimol	133	4.32	210.1	140(22)	98(28)	30
Ethoxyquin	134	5.6	218.1	148.1(22)	160.1(32)	30
Propisochlor	135	14.26	284.1	224.1(10)	148.1(17)	30
Isoproturon	136	6.89	207	71.4(17)	45.3(15)	30
Butralin	137	17.42	296.2	239.9(12)	221.8(20)	30
Azocyclotin	138	14.33	437.2	287.1(17)	205.1(22)	30
Amidosulfuron	139	6.46	370	261(15)	218(25)	30
Fentin	140	5.64	351.1	119.9(30)	197(25)	30
Ametoctradin	141	15.3	276.2	149.1(35)	177.1(35)	30
Atrazine	142	6.6	216.1	174.1(18)	96.1(23)	30
Vinclozolin	143	13.11	286	174(35)	218(17)	30
Barban	144	10.95	258	178(10)	143.1(20)	30
Tridemorph	145	13.68	298.3	98(34)	57(28)	30
Bromophos-ethyl	146	17.79	395	339(17)	367(10)	30
Chloroxuron	147	11.8	291.1	72(25)	164.1(15)	30
Bromopropylate	148	17.21	411	209(30)	325(12)	30
Nicosulfuron	149	5.47	411.1	182(32)	106(22)	30
Fenpyroximate	150	17.48	422.2	366.1(15)	138.1(32)	30
Acequinocyl	151	18.17	357.2	329(20)	203(20)	30
Bifenazate	152	12.03	301.1	198(10)	170(20)	30
Trifloxystrobin	153	16.56	409.1	186(16)	145(40)	30
Cyantraniliprole	154	6.09	475	286(12)	177(45)	30
Phosmet	155	11.42	289.1	70.1(18)	125.1(32)	30
Bitertanol	156	15.6	338.1	99.1(16)	70.1(8)	30
Triadimenol	157	11.72	296.1	70.1(10)	99.1(15)	30
Maleic hydrazide	158	1.08	113	67(17)	85(15)	30
Metolachlor	159	13.01	284.1	252.1(15)	176.1(25)	30
Triclopyr	160	9.45	256	180(27)	210(15)	30
Fenamidone	161	9.17	312.1	92(25)	236.1(14)	30
Novaluron	162	16.88	493	158(19)	141(35)	30
Monolinuron	163	6.07	215	126(22)	99(34)	30
Carbofuran	164	5.61	222.1	123(16)	165.1(16)	30
Tefluthrin	165	7.9	436	177(17)	325(7)	30

Buprofezin	166	15.51	306.1	201(12)	57.4(20)	30
Dimethomorph	167	9.17	388.1	301(20)	165(30)	30
Warfarin	168	9.73	309.1	163(12)	251(25)	30
Metribuzin	169	5.52	215	131(18)	89(20)	30
Pirimicarb	170	4.18	239.1	72(18)	182.1(15)	30
Fenbuconazole	171	14.01	337	125(36)	70.1(20)	30
Chlorotoluron	172	6.43	213	46(16)	72(18)	30
Acetochlor	173	12.13	270.1	223.8(12)	147.8(17)	30
Methoxyfenozide	174	10.64	369.1	313.1(8)	149.1(18)	30
Amitraz	175	17.8	294.2	122(35)	163(19)	30
Acephate	176	1.92	205.7	63.6(9)	164.6(9)	30
Flupyradifurone	177	4.26	291	127.9(15)	89.9(37)	30
Pyrasulfotole	178	5.64	363	251(20)	113(16)	30
Abamectin	179	17.82	895.5	751(40)	449(42)	30
Oryzalin	180	13.9	347	288(16)	305(16)	30
Benzovindiflupyr	181	15.06	398	342(16)	378(12)	30
Metrafenone	182	15.73	409	209(20)	277(20)	30
Benthiavalicarb isopropyl	183	10.57	382.1	180(30)	115.6(22)	30
Benzalkonium chloride	184	16.11	332.7	91(30)	240(18)	30
Imidacloprid	185	3.86	256	209(16)	175(20)	30
Tebufenpyrad	186	17.02	334.2	145(26)	116.8(30)	30
Penthiopyrad	187	14.88	360.1	276(12)	177(28)	30
Prosulfocarb	188	16.59	252.1	91(18)	128(10)	30
Profenofos	189	16.87	374.9	304.6(18)	346.9(12)	30
Cycloxydim	190	16.39	326.2	280(10)	180(20)	30
Pyridaben	191	17.74	365.1	309(10)	147(22)	30
Propanil	192	9.07	218	161.5(12)	126.5(22)	30
Butylate	193	16.64	218.1	56.5(12)	156(8)	30
Chlorfenvinphos	194	15.03	359	98.6(24)	170(40)	30
Chlorpyrifos	195	17.26	350	96.6(20)	198(20)	30
Dimethenamid	196	9.04	276	244(16)	167.8(18)	30
Flurtamone	197	9.17	334	247(28)	227(30)	30
Formetanate Hydrochloride	198	1.77	222	165(14)	120(26)	30
Flubendiamide	199	14.75	705	173.8(32)	530.8(38)	30
Beflubutamid	200	14.66	356.1	91(28)	162(26)	30
Fipronil	201	14.41	459	390(15)		
Fluoxastrobin	202	13.37	459	427(16)	188(40)	30
Fluxapyroxad	203	10.98	382.1	342(18)	362(14)	30
Silthiofam	204	14.24	269.1	139(22)	72.5(20)	30
Tembotrione	205	9.32	441	341(6)	305(18)	30
Oxasulfuron	206	5.37	407	150(34)	106.7(40)	30

Parathion-methyl	207	8.67	264	125(20)	109(18)	30
Pirimiphos-methyl	208	14.13	306.1	164(16)	108(34)	30
Methiocarb	209	9.28	226	169(10)	121(14)	30
Bifenox	210	16.04	342	310(10)		
Foramsulfuron	211	6.08	453	182(20)	272(10)	30
Azoxystrobin	212	8.88	404	372(18)	344(24)	30
Bupirimate	213	8.74	317.1	166(30)	272(18)	30
Triadimefon	214	10.85	294.1	225(12)	179(16)	30
Clothianidin	215	3.93	250	169(10)	131.6(20)	30
Clomazone	216	7.96	240.1	125(16)	89(40)	30
Dodemorph	217	5.94	282.3	116(20)	98(26)	30
Desmedipham	218	7.85	301.1	136(18)	108(20)	30
Diniconazole	219	16.09	326	69.6(24)	225(26)	30
Imazalil	220	5.63	297	159(20)	255(16)	30
Isoxaflutole	221	7.1	360	251(10)	220(32)	30
Indoxacarb	222	16.63	528.1	150(20)	293(12)	30
Methidathion	223	7.53	303	145(8)	84.7(14)	30
Monuron	224	5.48	199	71.6(14)	125.7(22)	30
Penconazole	225	14.64	284	69.9(16)	158.8(26)	30
Phenmedipham	226	8.03	301.1	168(8)	135.8(18)	30
Propargite	227	17.45	373.1	80.6(24)	142.6(16)	30
Malathion	228	10.36	331	285(6)	127(10)	30
Triticonazole	229	13.17	318.1	69.7(16)	124.5(36)	30
Thiamethoxam	230	3.25	292	211(8)	181(18)	30
Thiodicarb	231	6.16	377	63.7(14)	112.8(14)	30
Tralkoxydim	232	17.29	330.2	284(8)	138(22)	30
Bixafen	233	14.53	414	394(12)	266(18)	30
Spiromesifen	234	17.4	393	295(14)	361(10)	30
Chlorantraniliprole	235	7.88	481.7	284(12)	451(14)	30
Chlorthiamid	236	4.7	206	189(16)	153.8(30)	30
Fuberidazole	237	3.35	185	157(22)	130(22)	30
Imazosulfuron	238	10.65	413	153(10)	156(20)	30
Triasulfuron	239	5.48	402	141(18)	167(16)	30
Dimoxystrobin	240	14.31	327.1	116(20)	205(12)	30
Cyromazine	241	1.14	167.1	124.7(16)	107.8(16)	30
Fluopicolide	242	10.39	383	173(16)	145(46)	30
Triforine	243	8.65	433	387.8(10)	213(24)	30
Clodinafop-propargyl	244	14.39	350	266(12)	90.8(28)	30
Prosulfuron	245	10.11	420.1	140.8(16)	167(16)	30
Fenitrothion	246	11.09	278	108.8(18)	125(18)	30
Oxamyl	247	2.78	242.1	71.7(14)	120.7(12)	30
Azimsulfuron	248	7.24	425.1	182(14)	156(32)	30
Aldicarb	249	5	213	89(12)	115.8(8)	30

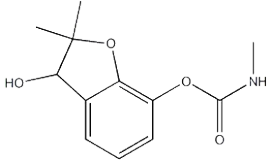
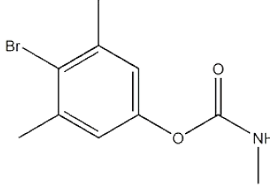
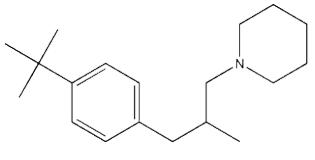
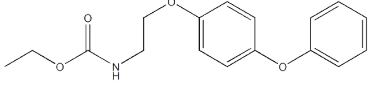
Simazine	250	5.63	202.1	131.8(16)	124(16)	30
Pethoxamid	251	12.69	296.1	131(16)	250(12)	30
Phoxim	252	15.27	299	76.7(22)	129(6)	30
Metconazole	253	15.39	320.1	69.7(18)	125(36)	30
Flurprimidol	254	10.87	313.1	80.6(22)	270(12)	30
Indole-3-butyric acid	255	6.09	204.1	186(12)	130(22)	30
EthylIndole-3-carboxylate	256	7.05	190.1	162(8)	118(14)	30
3-Indolylacetic acid	257	4.78	176	130(12)	103(26)	30
Mepiquat chloride	258	0.83	114	98(18)	57.8(16)	30

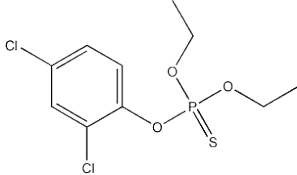
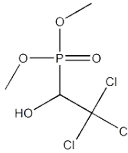
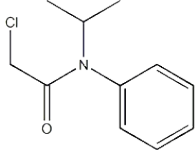
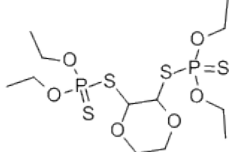
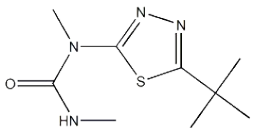
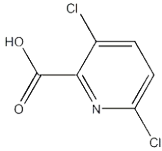
(a) Collision energy (eV) is given in parentheses

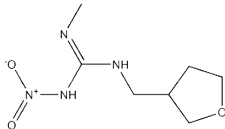
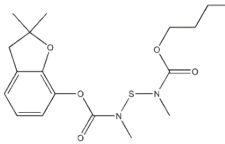
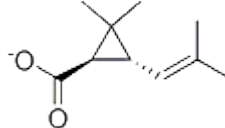
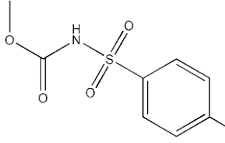
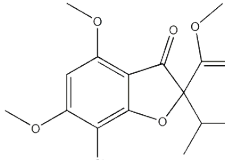
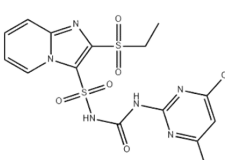
**Table S4** Porosity properties and saturation magnetization values of Fe<sub>3</sub>O<sub>4</sub>, H-MOF<sub>1</sub>@Fe<sub>3</sub>O<sub>4</sub>, H-MOF<sub>6</sub>@Fe<sub>3</sub>O<sub>4</sub>, H-MOF<sub>15</sub>@Fe<sub>3</sub>O<sub>4</sub>, and H-MOF<sub>30</sub>@Fe<sub>3</sub>O<sub>4</sub> core shell magnetic nanospheres

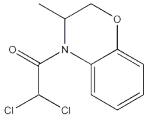
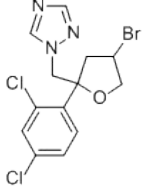
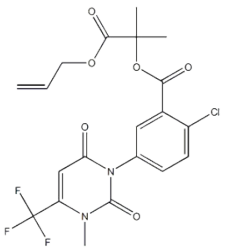
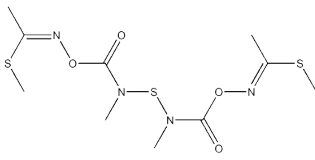
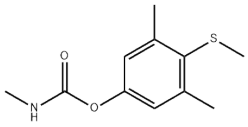
	Fe <sub>3</sub> O <sub>4</sub>	H-MOF <sub>1</sub> @Fe <sub>3</sub> O <sub>4</sub>	H-MOF <sub>6</sub> @Fe <sub>3</sub> O <sub>4</sub>	H-MOF <sub>15</sub> @Fe <sub>3</sub> O <sub>4</sub>	H-MOF <sub>30</sub> @Fe <sub>3</sub> O <sub>4</sub>
S <sub>BET</sub> [m <sup>2</sup> g <sup>-1</sup> ]	20.18	45.89	302.94	496.29	794.32
V[cm <sup>3</sup> g <sup>-1</sup> ]	/	0.021	0.113	0.227	0.514
M <sub>s</sub> [emu g <sup>-1</sup> ]	41.73	39.46	33.27	30.62	26.56

**Table S5** Properties of the analytes we selected (n-octanol-water partition coefficient ( $\log K_{ow}$ ), dissociation constant ( $pK_a$ ), CAS No., molecular formula, molecular structures and calculated sizes of the selected chemical hazards)

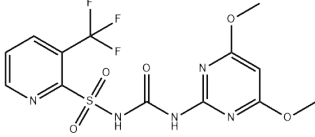
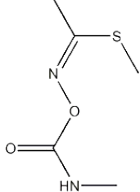
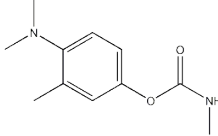
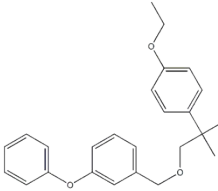
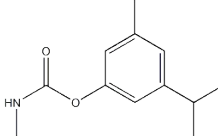
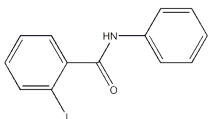
Analytes	Serial number	pKa	Log KOW	CAS No.	Molecular Formula	Molecular Structures	Calculated Size of the Analytes
3-Hydroxycarbofuran	1	12.28±0.46	0.76	16655-82-6	C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub>		6.8 Å × 8.7 Å
4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	2	11.85±0.46	3.16	672-99-1	C <sub>10</sub> H <sub>12</sub> BrNO <sub>2</sub>		5.9 Å × 9.0 Å
Fenpropidin	3	10.1	6.42	67306-00-7	C <sub>19</sub> H <sub>31</sub> N		8.2 Å × 8.8 Å
Fenoxycarb	4	12.13±0.46	-0.15	72490-01-8	C <sub>11</sub> H <sub>15</sub> NO <sub>3</sub>		8.3 Å × 8.7 Å

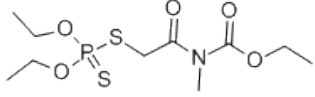
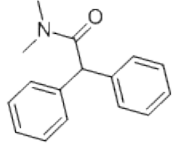
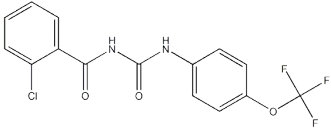
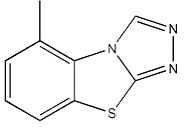
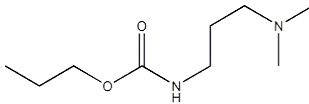
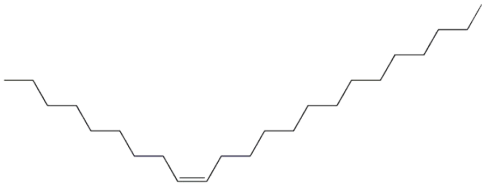
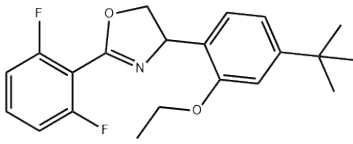
Dichlofenthion	5		5.14	97-17-6	C <sub>10</sub> H <sub>13</sub> Cl <sub>2</sub> O <sub>3</sub> PS		6.9 Å × 8.8 Å
Trichlorfon	6	6	0.51	52-68-6	C <sub>4</sub> H <sub>8</sub> Cl <sub>3</sub> O <sub>4</sub> P		5.0 Å × 5.9 Å
Propachlor	7	0.30±0.50	2.18	1918-16-7	C <sub>11</sub> H <sub>14</sub> ClNO		6.4 Å × 7.2 Å
Dioxathion	8		3.45	78-34-2	C <sub>12</sub> H <sub>26</sub> O <sub>6</sub> P <sub>2</sub> S <sub>4</sub>		12.4 Å × 15.5 Å
Tebuthiuron	9	13.36±0.46	1.79	34014-18-1	C <sub>9</sub> H <sub>16</sub> N <sub>4</sub> OS		5.0 Å × 10.5 Å
Lontrel	10	2.02±0.25	1.06	1702-17-6	C <sub>6</sub> H <sub>3</sub> Cl <sub>2</sub> NO <sub>2</sub>		5.5 Å × 6.8 Å

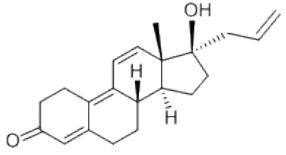
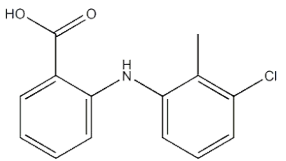
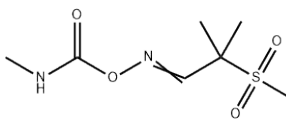
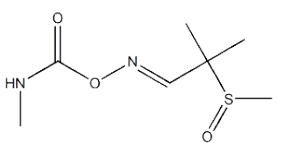
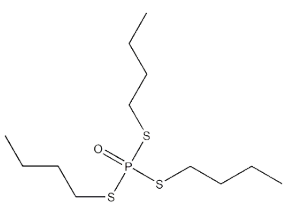
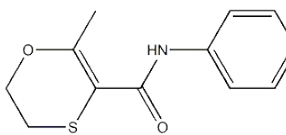
Dinotefuran	11	3.24±0.50	-0.19	165252-70-0	C <sub>7</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub>		6.4 Å × 8.3 Å
Furanthiocarb	12	-2.17±0.70	4.09	65907-30-4	C <sub>18</sub> H <sub>26</sub> N <sub>2</sub> O <sub>5</sub> S		9.9 Å × 12.8 Å
Bioallethrin	13		4.78	28057-48-9	C <sub>19</sub> H <sub>26</sub> O <sub>3</sub>		5.4 Å × 7.3 Å
Asulam	14	4.82	-0.27	3337-71-1	C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub> S		7.5 Å × 10.2 Å
Griseofulvin	15		-0.31	126-07-8	C <sub>17</sub> H <sub>17</sub> ClO <sub>6</sub>		7.3 Å × 12.3 Å
Sulfosulfuron	16	11.87±0.70	0.99	141776-32-1	C <sub>16</sub> H <sub>18</sub> N <sub>6</sub> O <sub>7</sub> S <sub>2</sub>		12.3 Å × 13.7 Å

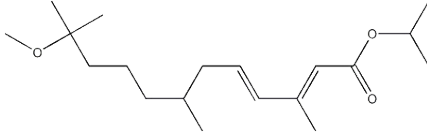
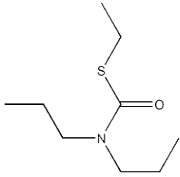
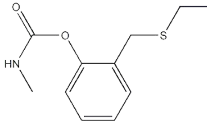
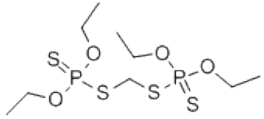
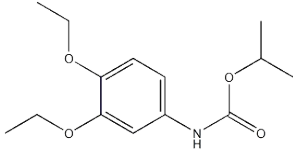
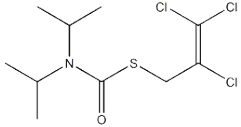
Benoxacor	17	1.20±0.40	2.7	98730-04-2	C <sub>11</sub> H <sub>11</sub> Cl <sub>2</sub> NO <sub>2</sub>		6.8 Å × 7.9 Å
Bromuconazol	18	2.75±0.10	3.24	116255-48-2	C <sub>13</sub> H <sub>12</sub> BrCl <sub>2</sub> N <sub>3</sub> O		6.7 Å × 8.0 Å
Butafenacil	19	-4.21±0.40	3.05	134605-64-4	C <sub>20</sub> H <sub>18</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>6</sub>		9.1 Å × 15.7 Å
Thiodicarb	20		1.7	59669-26-0	C <sub>10</sub> H <sub>18</sub> N <sub>4</sub> O <sub>4</sub> S <sub>3</sub>		10.2 Å × 13.0 Å
Mesurool	21	12.16±0.46	2.92	2032-65-7	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub> S		5.7 Å × 9.1 Å

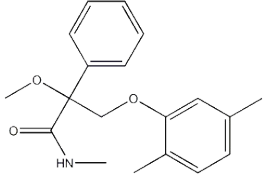
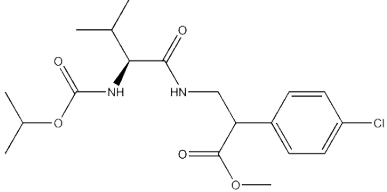
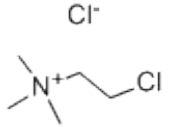
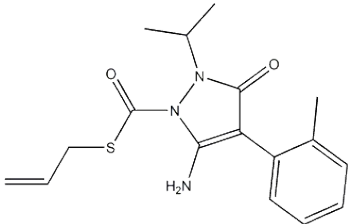
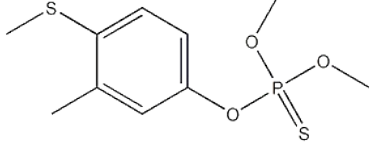


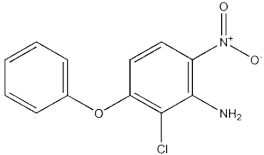
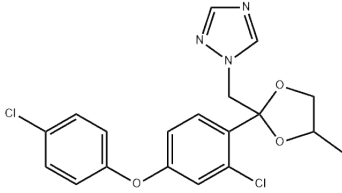
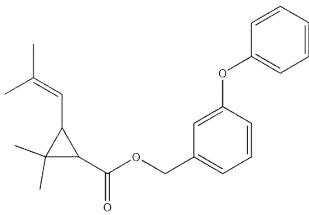
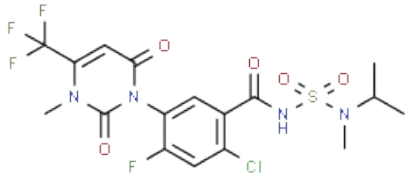
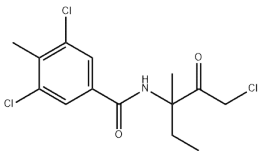
Flazasulfuron	22	4.6	1.08	104040-78-0	$C_{13}H_{12}F_3N_5O_5S$		$10.9 \text{ \AA} \times 12.7 \text{ \AA}$
Methomyl	23		0.6	16752-77-5	$C_5H_{10}N_2O_2S$		$6.3 \text{ \AA} \times 7.9 \text{ \AA}$
Aminocarb	24		1.9	2032-59-9	$C_{11}H_{16}N_2O_2$		$6.5 \text{ \AA} \times 8.9 \text{ \AA}$
Ethofenprox	25		7.05	80844-07-1	$C_{25}H_{28}O_3$		$10.6 \text{ \AA} \times 10.9 \text{ \AA}$
Promecarb	26	$12.37 \pm 0.46$	3.1	2631-37-0	$C_{12}H_{17}NO_2$		$7.1 \text{ \AA} \times 8.4 \text{ \AA}$
Benodanil	27	$12.87 \pm 0.70$	3.87	15310-01-7	$C_{13}H_{10}INO$		$7.5 \text{ \AA} \times 10.1 \text{ \AA}$

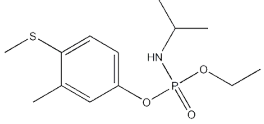
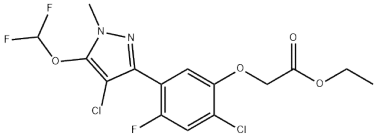
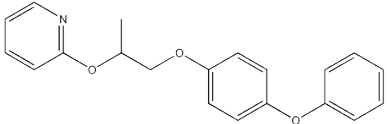
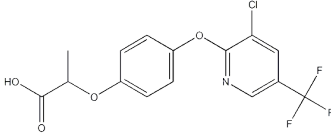
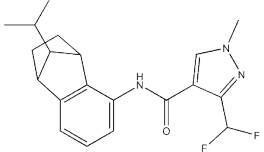
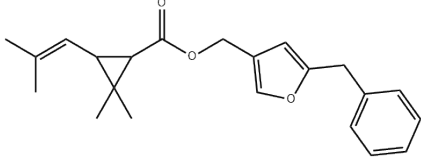
Mecarbam	28		2.29	2595-54-2	C <sub>10</sub> H <sub>20</sub> NO <sub>3</sub> PS <sub>2</sub>		10.2 Å × 12.3 Å
Diphenamid	29	-0.68±0.70	2.86	957-51-7	C <sub>16</sub> H <sub>17</sub> NO		8.1 Å × 8.6 Å
Triflumuron	30	9.79±0.46	4.91	64628-44-0	C <sub>15</sub> H <sub>10</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>3</sub>		5.8 Å × 13.9 Å
Tricyclazole	31	2.40±0.40	2.08	41814-78-2	C <sub>9</sub> H <sub>7</sub> N <sub>3</sub> S		5.8 Å × 7.4 Å
Propamocarb	32	12.73±0.46	1.12	24579-73-5	C <sub>9</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub>		7.3 Å × 12.4 Å
Cymoxanil	33	9.7	4.24	57966-95-7	C <sub>7</sub> H <sub>10</sub> N <sub>4</sub> O <sub>3</sub>		4.8 Å × 12.3 Å
Etoxazole	34	2.04±0.70	7.21	153233-91-1	C <sub>21</sub> H <sub>23</sub> F <sub>2</sub> NO <sub>2</sub>		8.9 Å × 12.2 Å

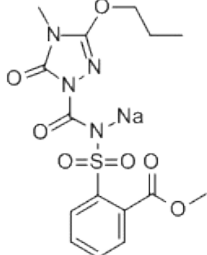
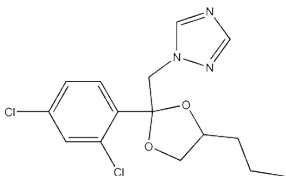
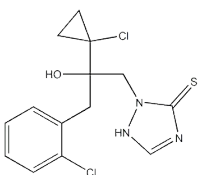
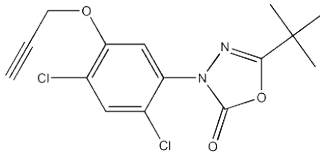
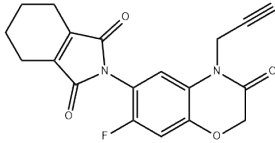
Altrenogest	35	14.59±0.40	3.94	850-52-2	C <sub>21</sub> H <sub>26</sub> O <sub>2</sub>		8.4 Å × 10.6 Å
Tolfenamic acid	36	3.66±0.36	5.17	13710-19-5	C <sub>14</sub> H <sub>12</sub> ClNO <sub>2</sub>		6.6 Å × 9.1 Å
Aldicarb-sulfone	37	13.44±0.46	-0.57	1646-88-4	C <sub>7</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub> S		4.3 Å × 10.8 Å
Aldicarb sulfoxide	38	13.57±0.46	-0.78	1646-87-3	C <sub>7</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub> S		7.0 Å × 9.6 Å
DEF 6	39		5.7	78-48-8	C <sub>12</sub> H <sub>27</sub> OPS <sub>3</sub>		9.1 Å × 15.5 Å
Carboxin	40	14.31±0.70	2.14	5234-68-4	C <sub>12</sub> H <sub>13</sub> NO <sub>2</sub> S		7.0 Å × 10.6 Å

Methoprene	41		5.5	40596-69-8	C <sub>19</sub> H <sub>34</sub> O <sub>3</sub>		8.5 Å × 12.7 Å
EPTC	42	-1.22±0.70	3.21	759-94-4	C <sub>9</sub> H <sub>19</sub> NOS		9.2 Å × 9.4 Å
Ethiofencarb	43	12.09±0.46	-2.04	29973-13-5	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub> S		7.7 Å × 8.2 Å
Ethion	44		5.07	563-12-2	C <sub>9</sub> H <sub>22</sub> O <sub>4</sub> P <sub>2</sub> S <sub>4</sub>		6.5 Å × 15.6 Å
Diethofencarb	45	12.75±0.70	2.91	87130-20-9	C <sub>14</sub> H <sub>21</sub> NO <sub>4</sub>		7.7 Å × 12.0 Å
Triallate	46	-1.48±0.70	4.6	2303-17-5	C <sub>10</sub> H <sub>16</sub> Cl <sub>3</sub> NOS		6.7 Å × 9.2 Å

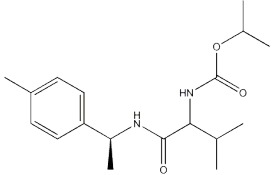
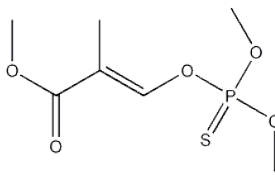
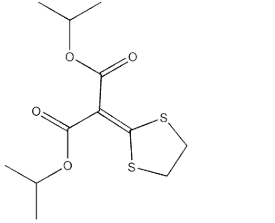
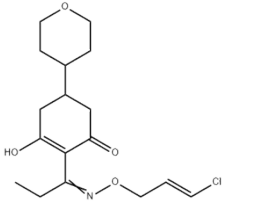
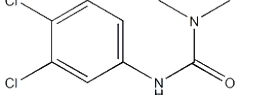
mandestrobin	47	14.62±0.46	3.54	173662-97-0	C <sub>19</sub> H <sub>23</sub> NO <sub>3</sub>		8.4 Å × 10.5 Å
valifenalate	48	11.35±0.46	2.97	283159-90-0	C <sub>19</sub> H <sub>27</sub> ClN <sub>2</sub> O <sub>5</sub>		9.5 Å × 9.5 Å
Chlormequat	49		-3.44	7003-89-6	(ClCH <sub>2</sub> CH <sub>2</sub> N(CH <sub>3</sub> ) <sub>3</sub> )Cl		4.7 Å × 7.3 Å
Fenpyrazamine	50	3.22±0.20	1.81	473798-59-3	C <sub>17</sub> H <sub>21</sub> N <sub>3</sub> O <sub>2</sub> S		10.0 Å × 10.4 Å
Fenthion	51		4.09	55-38-9	C <sub>10</sub> H <sub>15</sub> O <sub>3</sub> PS <sub>2</sub>		8.5 Å × 9.2 Å

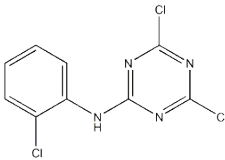
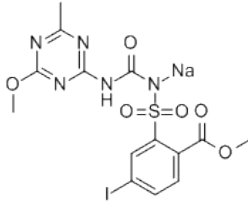
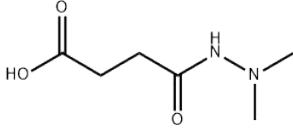
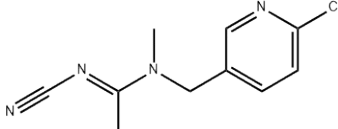
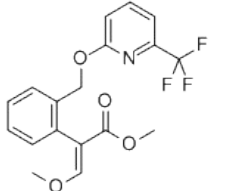
Aclonifen	52	-3.15±0.25	4.04	74070-46-5	C <sub>12</sub> H <sub>9</sub> ClN <sub>2</sub> O <sub>3</sub>		5.2 Å × 9.5 Å
Difenoconazole	53	2.94±0.12	4.3	119446-68-3	C <sub>19</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>		8.5 Å × 12.8 Å
Phenothrin	54		7.54	26002-80-2	C <sub>23</sub> H <sub>26</sub> O <sub>3</sub>		10.7 Å × 12.7 Å
Saflufenacil	55	4.24±0.40		372137-35-4	C <sub>17</sub> H <sub>17</sub> ClF <sub>4</sub> N <sub>4</sub> O <sub>5</sub> S		9.3 Å × 13.6 Å
Zoxamide	56	11.20±0.46	4.35	156052-68-5	C <sub>14</sub> H <sub>16</sub> Cl <sub>3</sub> NO <sub>2</sub>		8.2 Å × 10.1 Å

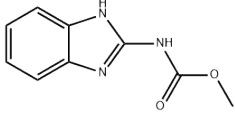
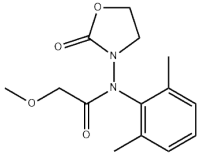
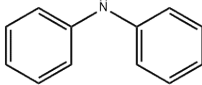
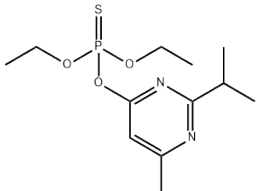
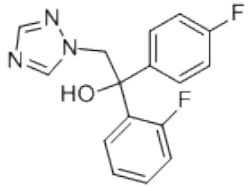
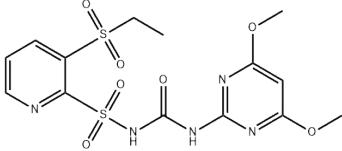
Fenamiphos	57		3.23	22224-92-6	C <sub>13</sub> H <sub>22</sub> NO <sub>3</sub> PS		8.0 Å × 9.7 Å
Pyraflufen Ethyl	58	-2.79±0.10	4.09	129630-19-9	C <sub>15</sub> H <sub>13</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>2</sub> O 4		8.3 Å × 13.7 Å
pyriproxyfen	59	3.2	5.55	95737-68-1	C <sub>20</sub> H <sub>19</sub> NO <sub>3</sub>		9.7 Å × 10.2 Å
Haloxyfop	60	3.12±0.10	3.38	69806-34-4	C <sub>15</sub> H <sub>11</sub> ClF <sub>3</sub> NO <sub>4</sub>		6.4 Å × 13.0 Å
Isopyrazam	61	12.27±0.40		881685-58-1	C <sub>20</sub> H <sub>23</sub> F <sub>2</sub> N <sub>3</sub> O		8.1 Å × 10.8 Å
Resmethrin	62		6.14	10453-86-8	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub>		7.4 Å × 13.6 Å

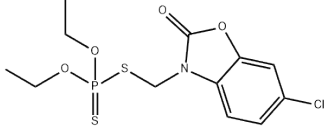
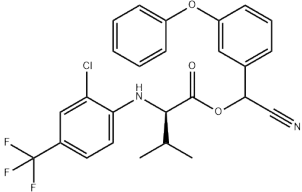
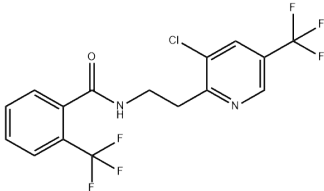
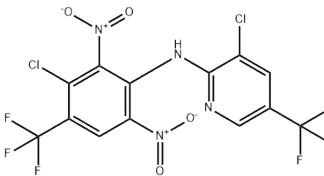
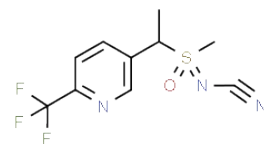
Propoxycarbazone-sodium	63	2.1		181274-15-7	$C_{15}H_{17}N_4NaO_7S$		$8.3 \text{ \AA} \times 9.7 \text{ \AA}$
Propiconazole	64	$2.94 \pm 0.12$	3.72	60207-90-1	$C_{15}H_{17}Cl_2N_3O_2$		$8.7 \text{ \AA} \times 9.4 \text{ \AA}$
Prothioconazole	65	6.9	3.09	178928-70-6	$C_{14}H_{15}Cl_2N_3OS$		$8.5 \text{ \AA} \times 9.4 \text{ \AA}$
Oxadiargyl	66	$-2.99 \pm 0.40$	3.95	39807-15-3	$C_{15}H_{14}Cl_2N_2O_3$		$9.3 \text{ \AA} \times 13.2 \text{ \AA}$
Flumioxazin	67	$-0.01 \pm 0.20$	2.55	103361-09-7	$C_{19}H_{15}FN_2O_4$		$10.8 \text{ \AA} \times 13.2 \text{ \AA}$

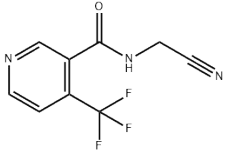
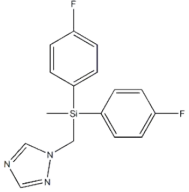
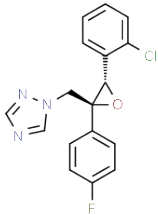
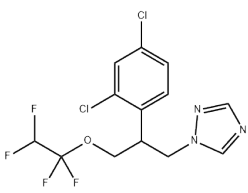
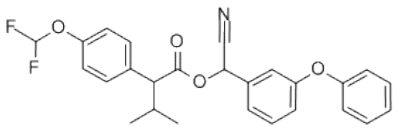


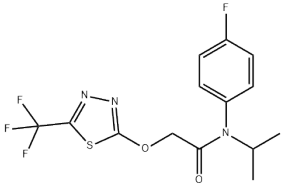
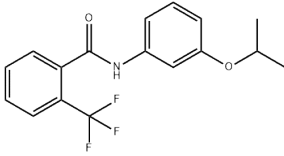
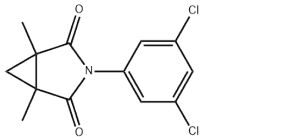
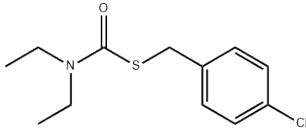
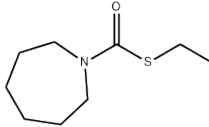
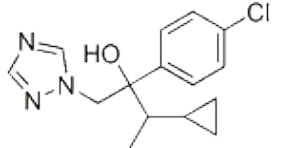
Iprovalicarb	68	11.41±0.46	3.33	140923-17-7	C <sub>18</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>		8.4 Å × 9.0 Å
Methacrifos	69		1.53	62610-77-9	C <sub>7</sub> H <sub>13</sub> O <sub>5</sub> PS		8.0 Å × 8.4 Å
Isoprothiolane	70		2.88	50512-35-1	C <sub>12</sub> H <sub>18</sub> O <sub>4</sub> S <sub>2</sub>		8.2 Å × 9.9 Å
Tepraloxymim	71	4.24±0.25		149979-41-9	C <sub>17</sub> H <sub>24</sub> ClNO <sub>4</sub>		7.5 Å × 14.2 Å
Diuron	72	-1 to -2	2.68	330-54-1	C <sub>9</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> O		5.3 Å × 8.0 Å

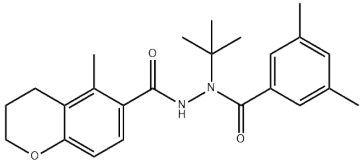
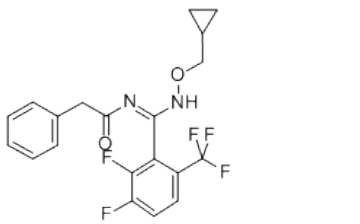
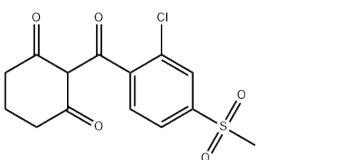
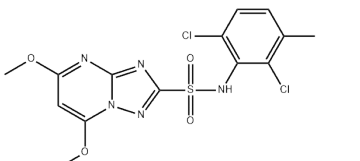
Anilazine	73	0.43±0.10	3.88	101-05-3	C <sub>9</sub> H <sub>5</sub> Cl <sub>3</sub> N <sub>4</sub>		6.3 Å × 8.6 Å
Iodosulfuron-methyl	74	3.22		144550-36-7	C <sub>14</sub> H <sub>14</sub> IN <sub>5</sub> O <sub>6</sub> S		8.4 Å × 14.3 Å
Daminozide	75	5.59±0.10	-1.5	1596-84-5	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>		7.7 Å × 8.0 Å
Acetamiprid	76	-0.44±0.10	2.55	135410-20-7	C <sub>10</sub> H <sub>11</sub> ClN <sub>4</sub>		5.8 Å × 8.4 Å
Picoxystrobin	77	-1.09±0.24	3.67	117428-22-5	C <sub>18</sub> H <sub>16</sub> F <sub>3</sub> NO <sub>4</sub>		9.6 Å × 13.2 Å

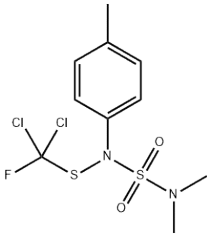
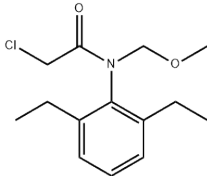
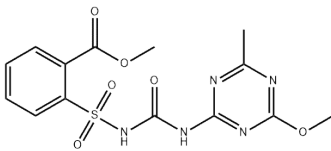
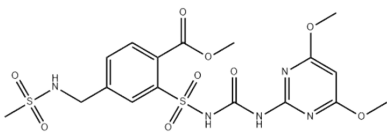
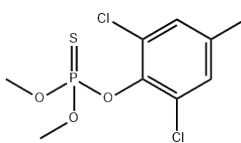
Carbendazim	78	4.48	1.52	10605-21-7	C <sub>9</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub>		6.6 Å × 8.0 Å
Sandofan	79	1.16±0.20	0.8	77732-09-3	C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub>		7.9 Å × 8.0 Å
Diphenylamine	80	0.79	3.5	122-39-4	C <sub>12</sub> H <sub>11</sub> N		5.0 Å × 9.4 Å
Diazinon	81	1.21±0.30	3.81	333-41-5	C <sub>12</sub> H <sub>21</sub> N <sub>2</sub> O <sub>3</sub> PS		7.4 Å × 9.2 Å
Flutriafol	82	11.60±0.29	2.29	76674-21-0	C <sub>16</sub> H <sub>13</sub> F <sub>2</sub> N <sub>3</sub> O		7.3 Å × 9.0 Å
Rimsulfuron	83	4.1	0.03	122931-48-0	C <sub>14</sub> H <sub>17</sub> N <sub>5</sub> O <sub>7</sub> S <sub>2</sub>		7.5 Å × 10.8 Å

										7.4 Å × 8.6 Å
Phosalone	84	-1.75±0.20	3.68	2310-17-0	$C_{12}H_{15}ClNO_4PS$ 2					
Fluvalinate	85	-1.16±0.50		102851-06-9	$C_{26}H_{22}ClF_3N_2O_3$					9.2 Å × 13.3 Å
Fluopyram	86		4.78	658066-35-4	$C_{16}H_{11}ClF_6N_2O$					10.0 Å × 12.4 Å
Fluazinam	87	7.11	3.56	79622-59-6	$C_{13}H_4Cl_2F_6N_4O_4$					8.0 Å × 10.6 Å
Sulfoxaflor	88		3.14	946578-00-3	$C_{10}H_{10}F_3N_3OS$					5.3 Å × 9.6 Å

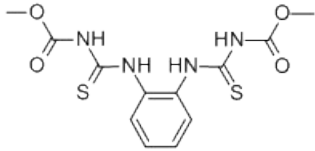
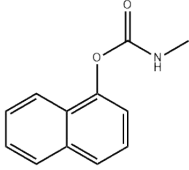
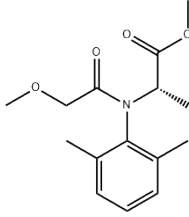
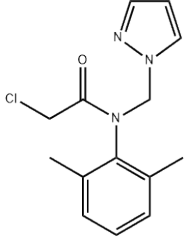
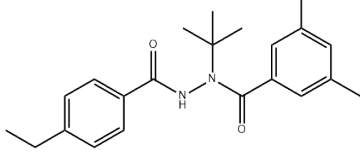
Flonicamid	89	10.99±0.46	0.5	158062-67-0	C <sub>9</sub> H <sub>6</sub> F <sub>3</sub> N <sub>3</sub> O		5.7 Å × 8.9 Å
Flusilazole	90	2.5	3.7	85509-19-9	C <sub>16</sub> H <sub>15</sub> F <sub>2</sub> N <sub>3</sub> Si		7.8 Å × 8.9 Å
Epoxiconazole	91	2.75±0.10	3.44	135319-73-2	C <sub>17</sub> H <sub>13</sub> ClFN <sub>3</sub> O		7.6 Å × 8.2 Å
Tetraconazole	92	2.68±0.10	3.56	112281-77-3	C <sub>13</sub> H <sub>11</sub> Cl <sub>2</sub> F <sub>4</sub> N <sub>3</sub> O		7.9 Å × 9.9 Å
Flucythrinate	93		6.2	70124-77-5	C <sub>26</sub> H <sub>23</sub> F <sub>2</sub> NO <sub>4</sub>		9.5 Å × 14.6 Å

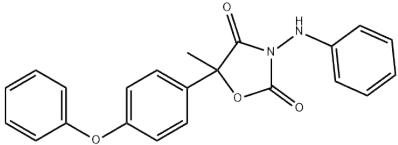
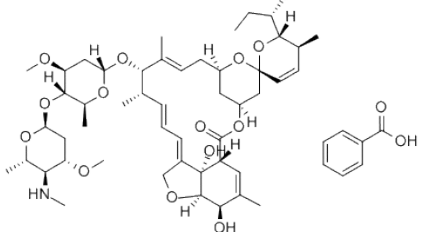
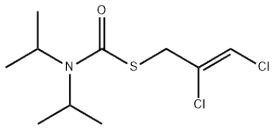
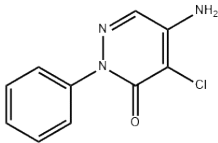
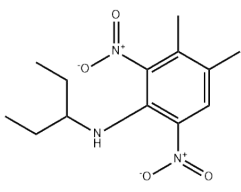
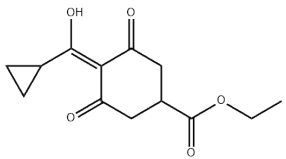
Flufenacet	94	0.31±0.50	3.2	142459-58-3	C <sub>14</sub> H <sub>13</sub> F <sub>4</sub> N <sub>3</sub> O <sub>2</sub> S		7.1 Å × 12.1 Å
Flutolanil	95	12.44±0.70	3.7	66332-96-5	C <sub>17</sub> H <sub>16</sub> F <sub>3</sub> NO <sub>2</sub>		8.5 Å × 10.8 Å
Procymidone	96	-2.67±0.60	3.08	32809-16-8	C <sub>13</sub> H <sub>11</sub> Cl <sub>2</sub> NO <sub>2</sub>		7.8 Å × 9.1 Å
Thiobencarb	97	-1.26±0.70	3.4	28249-77-6	C <sub>12</sub> H <sub>16</sub> ClNOS		8.2 Å × 10.0 Å
Molinate	98	-1.22±0.20	3.21	2212-67-1	C <sub>9</sub> H <sub>17</sub> NOS		6.6 Å × 7.9 Å
Cyproconazole	99	12.59±0.29	2.9	94361-06-5	C <sub>15</sub> H <sub>18</sub> ClN <sub>3</sub> O		6.7 Å × 9.7 Å

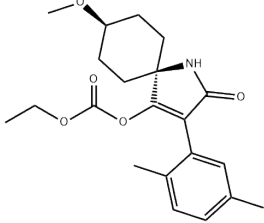
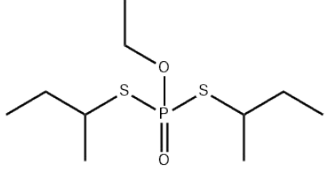
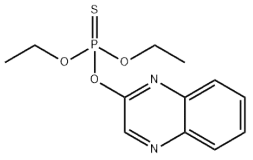
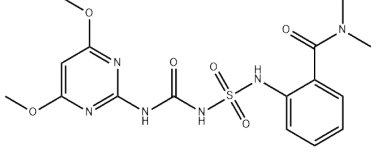
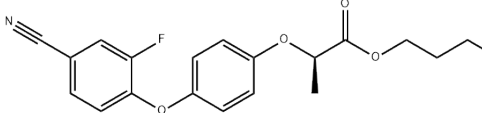
Chromafenozide	100	10.91±0.20	4.4	143807-66-3	C <sub>24</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub>		9.5 Å × 10.1 Å
Cyflufenamide	101	9.34±0.46	5.6	180409-60-3	C <sub>20</sub> H <sub>17</sub> F <sub>5</sub> N <sub>2</sub> O <sub>2</sub>		7.7 Å × 10.4 Å
Sulcotrione	102	3.22±0.50	2.31	99105-77-8	C <sub>14</sub> H <sub>13</sub> ClO <sub>5</sub> S		9.0 Å × 9.0 Å
Metosulam	103	4.28±0.50	3.08	139528-85-1	C <sub>14</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>5</sub> O <sub>4</sub> S		9.1 Å × 9.6 Å

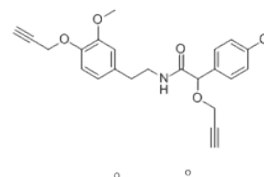
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Tolylfluamide	104	-5.06±0.50	3.9	731-27-1	C <sub>10</sub> H <sub>13</sub> Cl <sub>2</sub> FN <sub>2</sub> O <sub>2</sub> S <sub>2</sub>					
Alachlor	105	1.20±0.50	3.52	15972-60-8	C <sub>14</sub> H <sub>20</sub> ClNO <sub>2</sub>					8.0 Å × 8.0 Å
Metsulfuron methyl	106	2.55±0.10	2.2	74223-64-6	C <sub>14</sub> H <sub>15</sub> N <sub>5</sub> O <sub>6</sub> S					9.1 Å × 9.3 Å
Mesosulfuron-methyl	107	4.35		208465-21-8	C <sub>17</sub> H <sub>21</sub> N <sub>5</sub> O <sub>9</sub> S <sub>2</sub>					10.5 Å × 12.8 Å
Tolclofos-methyl	108		4.56	57018-04-9	C <sub>9</sub> H <sub>11</sub> Cl <sub>2</sub> O <sub>3</sub> PS					8.0 Å × 8.3 Å

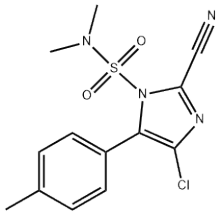
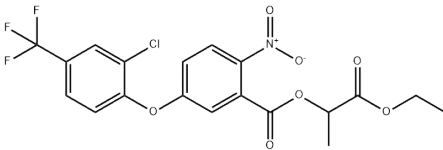
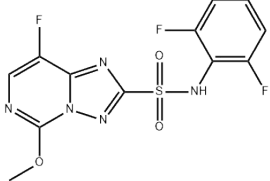
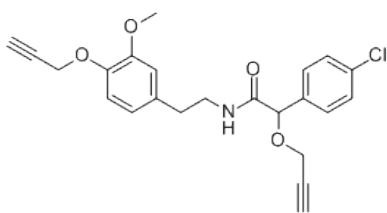


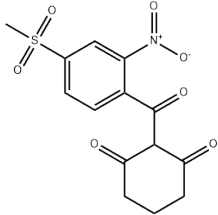
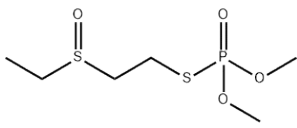
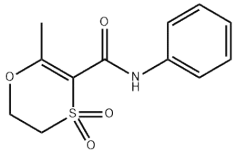
Thiophanate-methyl	109	7.28	1.4	23564-05-8	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>4</sub> S <sub>2</sub>		7.6 Å × 7.7 Å
Carbaryl	110	12.02±0.46	2.36	63-25-2	C <sub>12</sub> H <sub>11</sub> NO <sub>2</sub>		6.9 Å × 7.4 Å
Metalaxyl	111	1.41±0.50	1.65	57837-19-1	C <sub>15</sub> H <sub>21</sub> NO <sub>4</sub>		6.5 Å × 8.0 Å
Metazachlor	112	1.54±0.10	2.13	67129-08-2	C <sub>14</sub> H <sub>16</sub> ClN <sub>3</sub> O		7.8 Å × 8.0 Å
Tebufenozide	113	10.89±0.46	4.25	112410-23-8	C <sub>22</sub> H <sub>28</sub> N <sub>2</sub> O <sub>2</sub>		9.8 Å × 9.9 Å

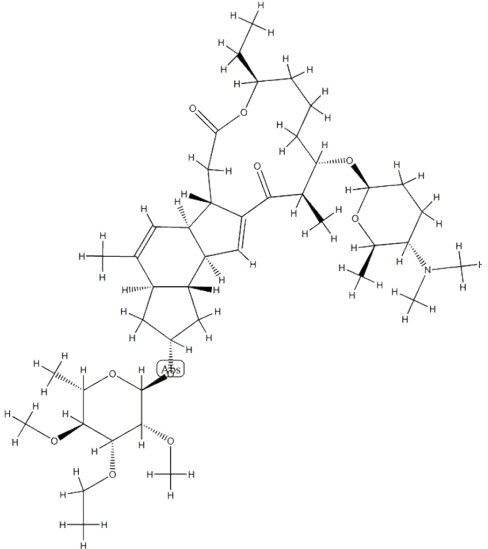
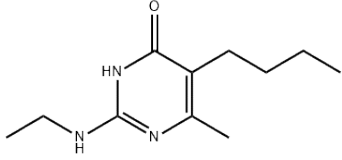
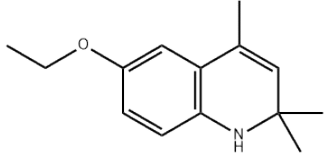
Famoxadone	114	0.63±0.40	4.65	131807-57-3	C <sub>22</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub>		13.4 Å × 13.9 Å
Emamectin	115			119791-41-2	C <sub>49</sub> H <sub>75</sub> NO <sub>13</sub> C <sub>49</sub> H <sub>77</sub> NO <sub>13</sub>		15.7 Å × 25.7 Å
cis and trans-Diallate	116	-1.63±0.70	4.49	2303-16-4; 17708-57-5	C <sub>10</sub> H <sub>17</sub> Cl <sub>2</sub> NOS		6.0 Å × 8.8 Å
Chloridazon	117	0.71±0.20	1.14	1698-60-8	C <sub>10</sub> H <sub>8</sub> ClN <sub>3</sub> O		6.2 Å × 8.6 Å
Pendimethaline	118	-2.24±0.33	2.62	40487-42-1	C <sub>13</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub>		7.2 Å × 8.8 Å
Trinexapac-ethyl	119	4.7	1.6	95266-40-3	C <sub>13</sub> H <sub>16</sub> O <sub>5</sub>		7.2 Å × 12.9 Å

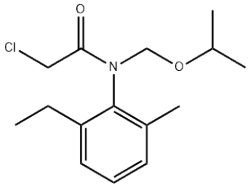
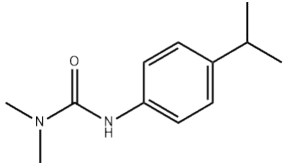
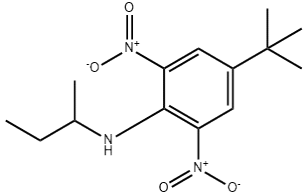
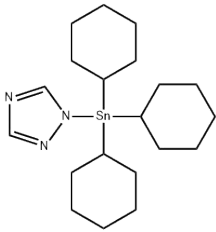
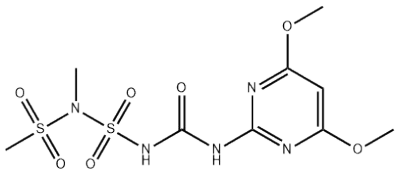
Spirotetramat	120		3.67	203313-25-1	C <sub>21</sub> H <sub>27</sub> NO <sub>5</sub>		8.1 Å × 13.0 Å
Cadusafos	121		3.9	95465-99-9	C <sub>10</sub> H <sub>23</sub> O <sub>2</sub> PS <sub>2</sub>		8.8 Å × 9.7 Å
Quinalphos	122	-1.05±0.30	4.44	13593-03-8	C <sub>12</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> PS		9.8 Å × 13.2 Å
Orthosulfamuron	123	?1.4, 0.7, 3.5, 9.6, 11.5	0.14	213464-77-8	C <sub>16</sub> H <sub>20</sub> N <sub>6</sub> O <sub>6</sub> S		9.5 Å × 13.3 Å
Cyhalofop-butyl	124		4.47	122008-85-9	C <sub>20</sub> H <sub>20</sub> FNO <sub>4</sub>		9.5 Å × 13.3 Å

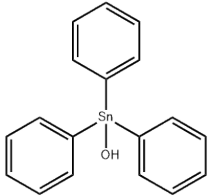
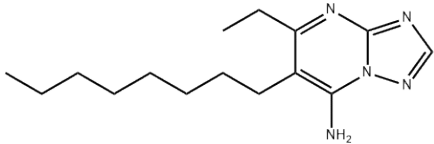
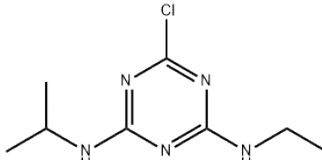
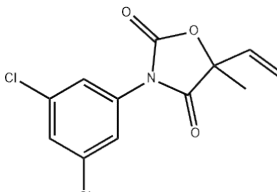
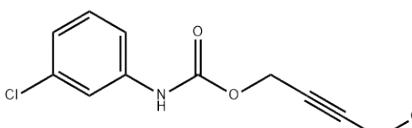


Cyazofamid	125	-6.61±0.70	2.87	120116-88-3	C <sub>13</sub> H <sub>13</sub> ClN <sub>4</sub> O <sub>2</sub> S		7.3 Å × 9.8 Å
Lactofen	126		4.81	77501-63-4	C <sub>19</sub> H <sub>15</sub> ClF <sub>3</sub> NO <sub>7</sub>		8.0 Å × 14.3 Å
Florasulam	127	4.54	2.13	145701-23-1	C <sub>12</sub> H <sub>8</sub> F <sub>3</sub> N <sub>5</sub> O <sub>3</sub> S		6.8 Å × 8.9 Å
Mandipropamid	128		3.57	374726-62-2	C <sub>23</sub> H <sub>22</sub> ClNO <sub>4</sub>		9.5 Å × 16.8 Å

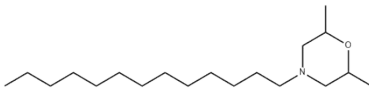
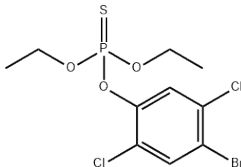
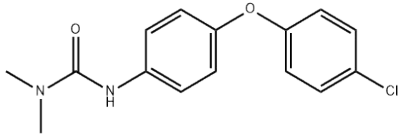
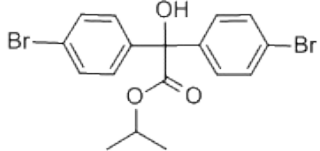
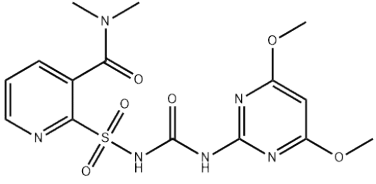
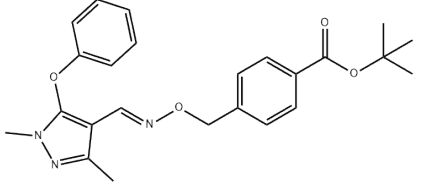
Mesotrione	129	3.12	1.49	104206-82-8	C <sub>14</sub> H <sub>13</sub> NO <sub>7</sub> S		8.7 Å × 9.0 Å
Oxydemeton-methyl	130		-0.74	301-12-2	C <sub>6</sub> H <sub>15</sub> O <sub>4</sub> PS <sub>2</sub>		8.7 Å × 8.9 Å
Oxycarboxin	131	11.26±0.70	0.77	5259-88-1	C <sub>12</sub> H <sub>13</sub> NO <sub>4</sub> S		6.3 Å × 9.0 Å

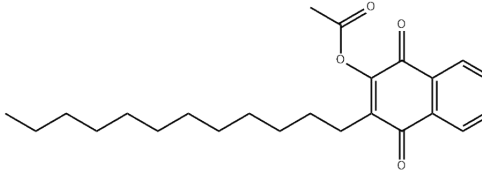
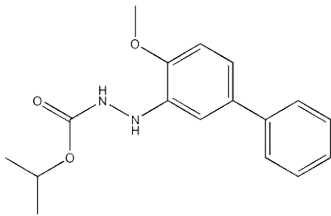
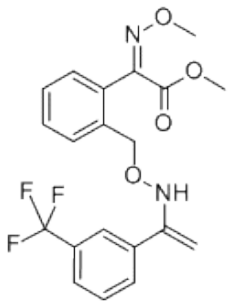
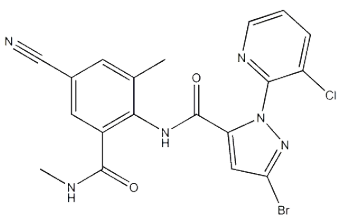
										15.0 Å × 17.5 Å
Spinetoram L	132			187166-15-0	C <sub>43</sub> H <sub>69</sub> NO <sub>10</sub>					
Ethirimol	133	5	1.71	23947-60-6	C <sub>11</sub> H <sub>19</sub> N <sub>3</sub> O					7.0 Å × 13.0 Å
Ethoxyquin	134	5.02 ± 0.70	3.87	91-53-2	C <sub>14</sub> H <sub>19</sub> NO					6.4 Å × 10.4 Å

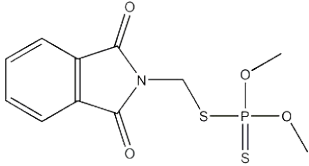
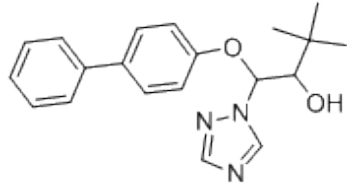
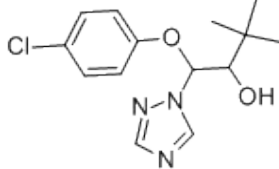
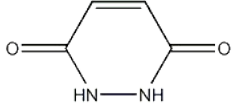
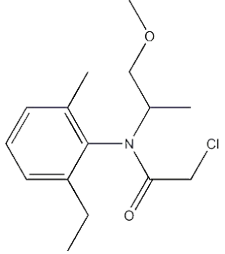
Propisochlor	135	1.30±0.50	3.5	86763-47-5	C <sub>15</sub> H <sub>22</sub> ClNO <sub>2</sub>		7.0 Å × 9.0 Å
Isoproturon	136	15.06±0.70	2.87	34123-59-6	C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O		7.4 Å × 8.6 Å
Butralin	137	-3.50±0.50	2.95	33629-47-9	C <sub>14</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>		7.7 Å × 9.4 Å
Azocyclotin	138	5.36		41083-11-8	C <sub>20</sub> H <sub>35</sub> N <sub>3</sub> Sn		9.8 Å × 10.3 Å
Amidosulfuron	139	0.12±0.40	1.63	120923-37-7	C <sub>9</sub> H <sub>15</sub> N <sub>5</sub> O <sub>7</sub> S <sub>2</sub>		8.1 Å × 10.6 Å

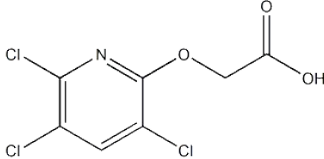
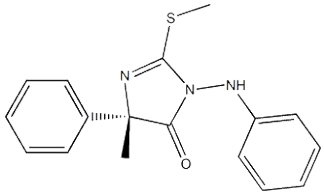
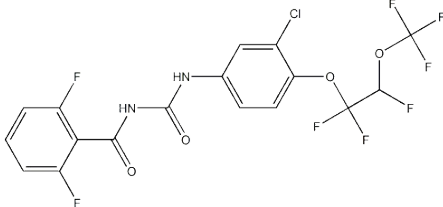
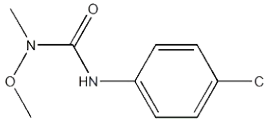
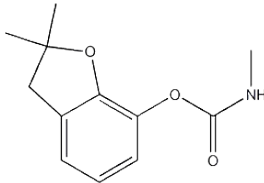
Fentin	140	3.98±0.70		76-87-9	C <sub>18</sub> H <sub>16</sub> OSn		9.1 Å × 9.4 Å
Ametoctradin	141		4.02	865318-97-4	C <sub>15</sub> H <sub>25</sub> N <sub>5</sub>		7.4 Å × 15.3 Å
Atrazine	142	1.64	2.61	1912-24-9	C <sub>8</sub> H <sub>14</sub> ClN <sub>5</sub>		6.1 Å × 10.1 Å
Vinclozolin	143	-3.43±0.40	3.1	50471-44-8	C <sub>12</sub> H <sub>9</sub> Cl <sub>2</sub> NO <sub>3</sub>		7.3 Å × 8.8 Å
Barban	144	12.30±0.70	3.41	101-27-9	C <sub>11</sub> H <sub>9</sub> Cl <sub>2</sub> NO <sub>2</sub>		6.3 Å × 10.1 Å

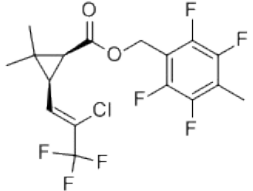
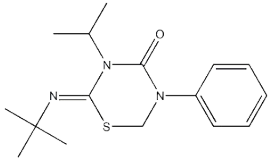
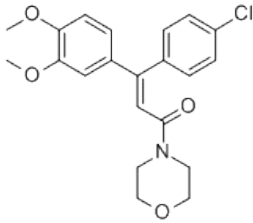
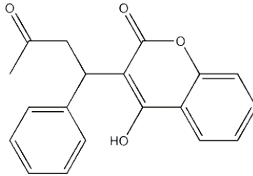
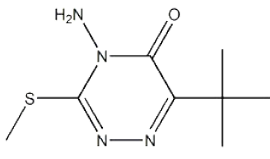


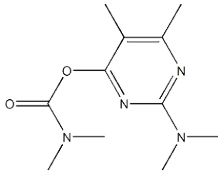
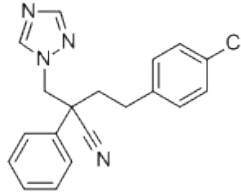
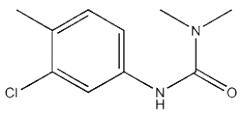
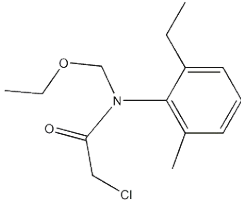
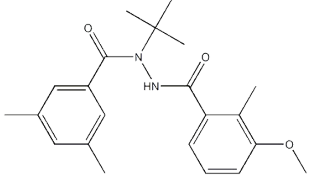
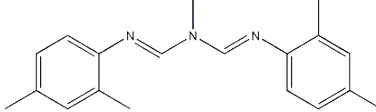
Tridemorph	145	7.63±0.10	6.38	24602-86-6	C <sub>19</sub> H <sub>39</sub> NO		5.5 Å × 20.8 Å
Bromophos-ethyl	146		6.15	4824-78-6	C <sub>10</sub> H <sub>12</sub> BrCl <sub>2</sub> O <sub>3</sub> P S		7.4 Å × 9.5 Å
chloroxuron	147	14.37±0.70	3.7	1982-47-4	C <sub>15</sub> H <sub>15</sub> ClN <sub>2</sub> O <sub>2</sub>		7.0 Å × 12.8 Å
Bromopropylate	148	11.18±0.29	5.4	18181-80-1	C <sub>17</sub> H <sub>16</sub> Br <sub>2</sub> O <sub>3</sub>		7.7 Å × 9.9 Å
Nicosulfuron	149	4.6	0.01	111991-09-4	C <sub>15</sub> H <sub>18</sub> N <sub>6</sub> O <sub>6</sub> S		8.2 Å × 8.4 Å
Fenpyroximate	150	1.58±0.10	5.01	134098-61-6	C <sub>24</sub> H <sub>27</sub> N <sub>3</sub> O <sub>4</sub>		13.4 Å × 15.8 Å

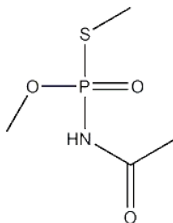
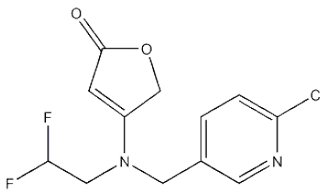
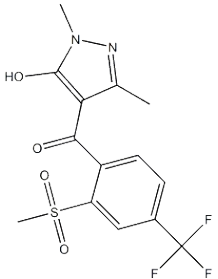
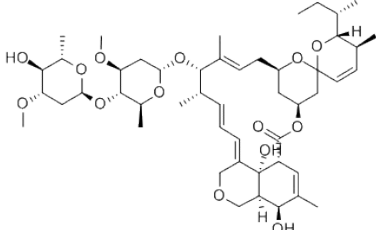
Acequinocyl	151		7.21	57960-19-7	C <sub>24</sub> H <sub>32</sub> O <sub>4</sub>		10.7 Å × 20.8 Å
Bifenazate	152	9.84±0.43	4.14	149877-41-8	C <sub>17</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>		9.2 Å × 13.4 Å
Trifloxystrobin	153		6.62	141517-21-7	C <sub>20</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>		7.9 Å × 9.6 Å
Cyantraniliprole	154		3.43	736994-63-1	C <sub>19</sub> H <sub>14</sub> BrClN <sub>6</sub> O 2		7.8 Å × 11.1 Å

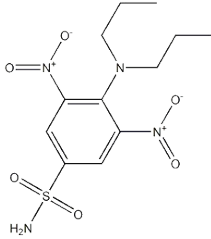
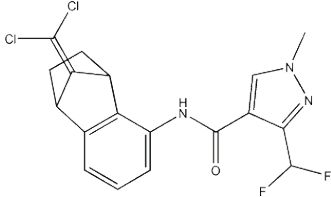
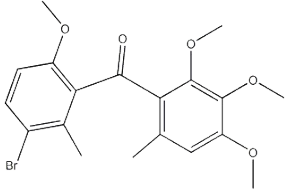
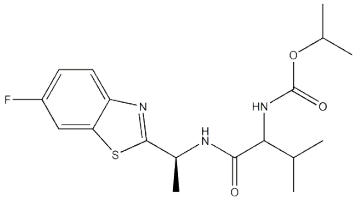
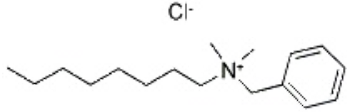
Phosmet	155	-2.63±0.20	2.78	732-11-6	C <sub>11</sub> H <sub>12</sub> NO <sub>4</sub> PS <sub>2</sub>		6.6 Å × 8.2 Å
Bitertanol	156	13.40±0.20	4.16	55179-31-2	C <sub>20</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub>		10.5 Å × 13.8 Å
Triadimenol	157	13.29±0.20	3.08	55219-65-3	C <sub>14</sub> H <sub>18</sub> ClN <sub>3</sub> O <sub>2</sub>		7.4 Å × 9.3 Å
Maleic hydrazide	158	9.01±0.20	-0.84	123-33-1	C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>		4.5 Å × 5.0 Å
Metolachlor	159	1.45±0.50	2.9	51218-45-2	C <sub>15</sub> H <sub>22</sub> ClNO <sub>2</sub>		7.1 Å × 8.3 Å

Triclopyr	160	2.68	2.53	55335-06-3	$C_7H_4Cl_3NO_3$		$5.3 \text{ \AA} \times 9.3 \text{ \AA}$
Fenamidone	161	$0.49 \pm 0.40$	3.45	161326-34-7	$C_{17}H_{17}N_3OS$		$7.8 \text{ \AA} \times 10.0 \text{ \AA}$
Novaluron	162	$8.68 \pm 0.46$	5.27	116714-46-6	$C_{17}H_9ClF_8N_2O_4$		$10.2 \text{ \AA} \times 12.9 \text{ \AA}$
Monolinuron	163	$12.80 \pm 0.70$	2.3	1746-81-2	$C_9H_{11}ClN_2O_2$		$6.7 \text{ \AA} \times 7.0 \text{ \AA}$
Carbofuran	164		2.32	1563-66-2	$C_{12}H_{15}NO_3$		$7.5 \text{ \AA} \times 7.5 \text{ \AA}$

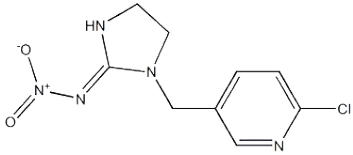
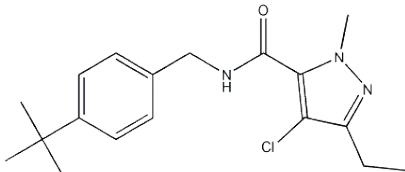
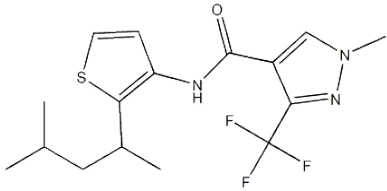
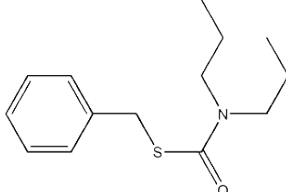
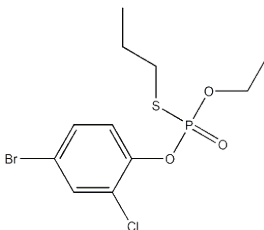
Tefluthrin	165			79538-32-2	$C_{17}H_{14}ClF_7O_2$		$9.7 \text{ \AA} \times 10.7 \text{ \AA}$
Buprofezin	166	$3.02 \pm 0.20$	4.3	69327-76-0	$C_{16}H_{23}N_3OS$		$8.0 \text{ \AA} \times 13.8 \text{ \AA}$
Dimethomorph	167		2.68	110488-70-5	$C_{21}H_{22}ClNO_4$		$12.5 \text{ \AA} \times 12.5 \text{ \AA}$
Warfarin	168	$4.90 \pm 0.01$	2.89	81-81-2	$C_{19}H_{16}O_4$		$8.9 \text{ \AA} \times 10.4 \text{ \AA}$
Metribuzin	169	$-0.16 \pm 0.20$	1.7	21087-64-9	$C_8H_{14}N_4OS$		$5.8 \text{ \AA} \times 8.5 \text{ \AA}$

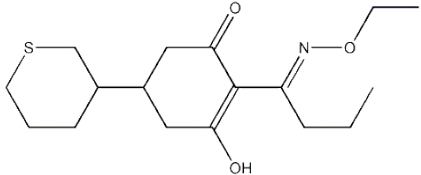
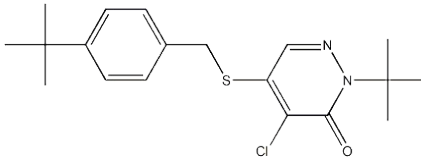
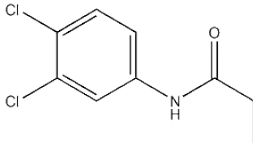
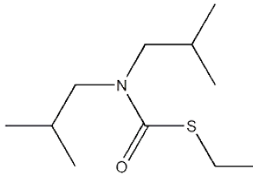
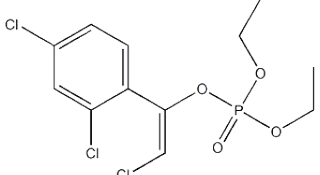
Pirimicarb	170	4.34	1.7	23103-98-2	C <sub>11</sub> H <sub>18</sub> N <sub>4</sub> O <sub>2</sub>		7.7 Å × 9.2 Å
Fenbuconazole	171	2.34±0.10	3.23	114369-43-6	C <sub>19</sub> H <sub>17</sub> ClN <sub>4</sub>		7.6 Å × 10.1 Å
Chlorotoluron	172	14.43±0.70	2.41	15545-48-9	C <sub>10</sub> H <sub>13</sub> ClN <sub>2</sub> O		6.0 Å × 8.5 Å
Acetochlor	173	1.29±0.50	3.03	34256-82-1	C <sub>14</sub> H <sub>20</sub> ClNO <sub>2</sub>		7.0 Å × 8.3 Å
Methoxyfenozide	174	10.43±0.4	3.7	161050-58-4	C <sub>22</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>		9.4 Å × 9.4 Å
Amitraz	175	4.2	5.5	33089-61-1	C <sub>19</sub> H <sub>23</sub> N <sub>3</sub>		7.5 Å × 14.9 Å

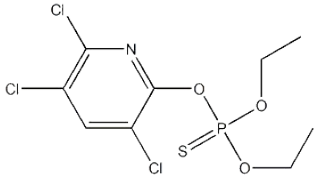
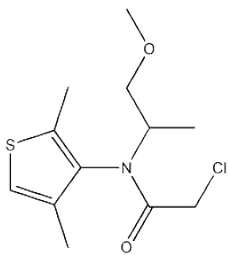
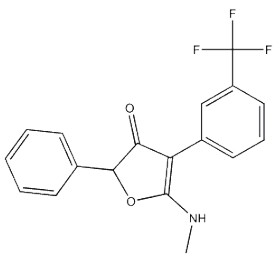
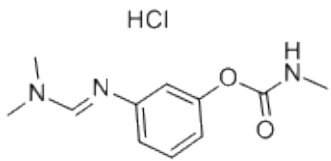
Acephate	176	11.00±0.46	-0.85	30560-19-1	C <sub>4</sub> H <sub>10</sub> NO <sub>3</sub> PS		7.2 Å × 7.2 Å
Flupyradifurone	177	0.22±0.10		951659-40-8	C <sub>12</sub> H <sub>11</sub> ClF <sub>2</sub> N <sub>2</sub> O <sub>2</sub>		7.8 Å × 9.1 Å
Pyrasulfotole	178	6.36±0.50	2.11	365400-11-9	C <sub>14</sub> H <sub>13</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub> S		7.3 Å × 9.6 Å
Abamectin	179			71751-41-2	C <sub>49</sub> H <sub>74</sub> O <sub>14</sub>		13.6 Å × 16.2 Å

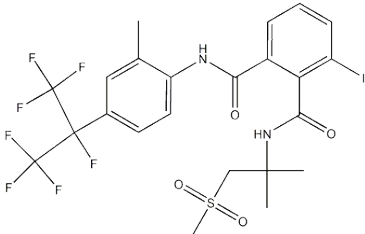
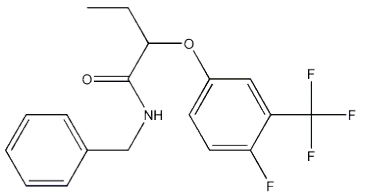
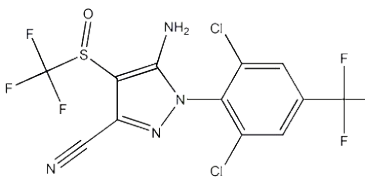
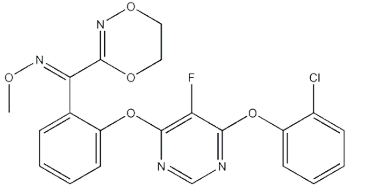
Oryzalin	180	9.14±0.60	3.73	19044-88-3	C <sub>12</sub> H <sub>18</sub> N <sub>4</sub> O <sub>6</sub> S		7.6 Å × 10.6 Å
Benzovindiflupyr	181	12.12±0.20		1072957-71-1	C <sub>18</sub> H <sub>15</sub> Cl <sub>2</sub> F <sub>2</sub> N <sub>3</sub> O		9.2 Å × 9.5 Å
Metrafenone	182		4.72	220899-03-6	C <sub>19</sub> H <sub>21</sub> BrO <sub>5</sub>		8.9 Å × 10.4 Å
Benthiavalicarb isopropyl	183	11.34±0.46	3.16	177406-68-7	C <sub>18</sub> H <sub>24</sub> FN <sub>3</sub> O <sub>3</sub> S		9.0 Å × 10.7 Å
Benzalkonium chloride	184			63449-41-2	C <sub>10</sub> H <sub>16</sub> N(CH <sub>2</sub> ) <sub>7</sub> Cl		12.3 Å × 12.8 Å

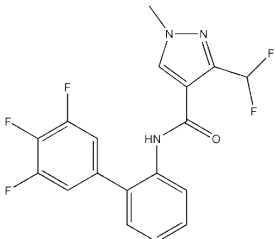
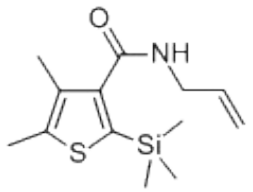
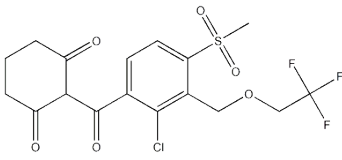
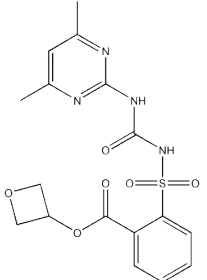
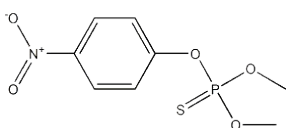


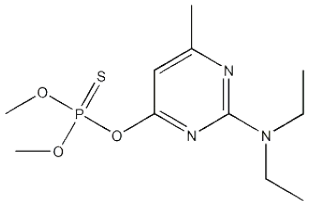
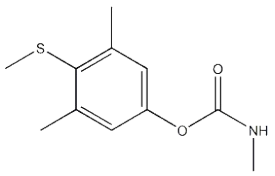
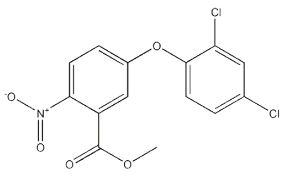
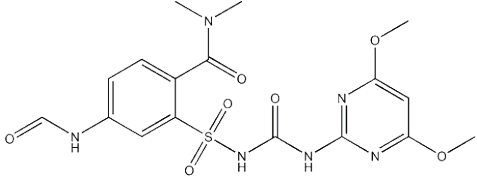
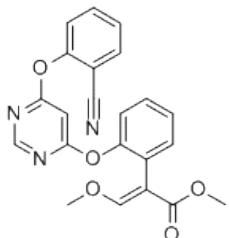
Imidacloprid	185	7.16±0.20	-0.41	138261-41-3	C <sub>9</sub> H <sub>10</sub> ClN <sub>5</sub> O <sub>2</sub>		6.0 Å × 9.3 Å
Tebufenpyrad	186	13.19±0.46	4.61	119168-77-3	C <sub>18</sub> H <sub>24</sub> ClN <sub>3</sub> O		10.1 Å × 12.8 Å
Penthiopyrad	187	12.77±0.70	4.95	183675-82-3	C <sub>16</sub> H <sub>20</sub> F <sub>3</sub> N <sub>3</sub> OS		7.3 Å × 8.6 Å
Prosulfocarb	188	-1.22±0.70	4.65	52888-80-9	C <sub>14</sub> H <sub>21</sub> NOS		6.3 Å × 6.8 Å
Profenofos	189		4.68	41198-08-7	C <sub>11</sub> H <sub>15</sub> BrClO <sub>3</sub> P S		8.8 Å × 12.5 Å

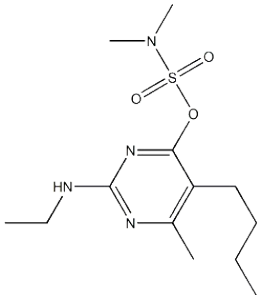
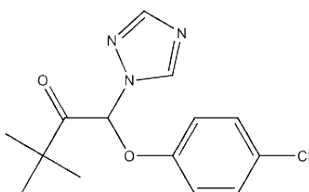
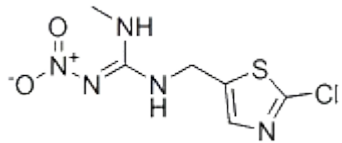
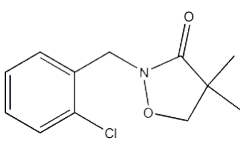
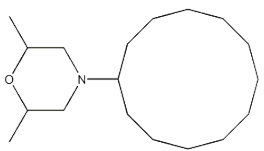
Cycloxydim	190	4.32±0.25		101205-02-1	C <sub>17</sub> H <sub>27</sub> NO <sub>3</sub> S		7.5 Å × 13.8 Å
Pyridaben	191	-2.69±0.20	6.37	96489-71-3	C <sub>19</sub> H <sub>25</sub> ClN <sub>2</sub> OS		13.2 Å × 14.7 Å
Propanil	192	13.58±0.70	3.07	709-98-8	C <sub>9</sub> H <sub>9</sub> Cl <sub>2</sub> NO		6.9 Å × 8.6 Å
Butylate	193	-1.22±0.70	4.15	2008-41-5	C <sub>11</sub> H <sub>23</sub> NOS		7.5 Å × 9.8 Å
Chlorfenvinphos	194		3.81	470-90-6	C <sub>12</sub> H <sub>14</sub> Cl <sub>3</sub> O <sub>4</sub> P		7.5 Å × 10.4 Å

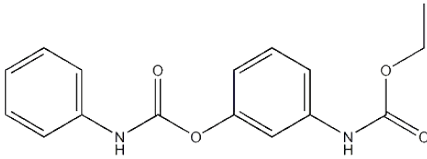
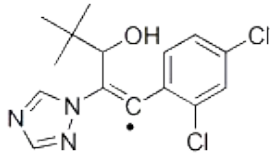
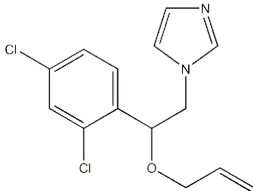
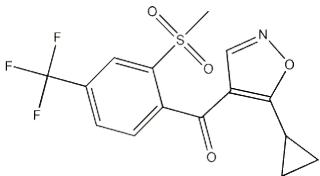
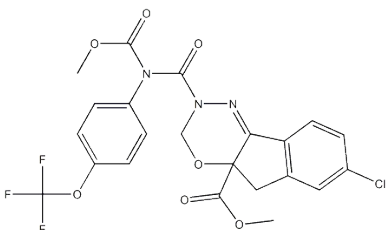
Chlorpyrifos	195		4.96	2921-88-2	C <sub>9</sub> H <sub>11</sub> Cl <sub>3</sub> NO <sub>3</sub> PS		6.5 Å × 9.8 Å
Dimethenamid	196	1.16±0.50	2.15	87674-68-8	C <sub>12</sub> H <sub>18</sub> ClNO <sub>2</sub> S		6.4 Å × 8.7 Å
Flurtamone	197	2.97±0.40	2.87	96525-23-4	C <sub>18</sub> H <sub>14</sub> F <sub>3</sub> NO <sub>2</sub>		9.5 Å × 9.8 Å
Formetanate Hydrochloride	198		-0.64	23422-53-9	C <sub>11</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub> ·HCl 1		7.5 Å × 8.9 Å

Flubendiamide	199	11.59±0.70		272451-65-7	C <sub>23</sub> H <sub>22</sub> F <sub>7</sub> IN <sub>2</sub> O <sub>4</sub> S		10.0 Å × 10.5 Å
Beflubutamid	200	14.66±0.46	4.81	113614-08-7	C <sub>18</sub> H <sub>17</sub> F <sub>4</sub> NO <sub>2</sub>		6.8 Å × 13.5 Å
Fipronil	201	-5.86±0.20	4	120068-37-3	C <sub>12</sub> H <sub>4</sub> Cl <sub>2</sub> F <sub>6</sub> N <sub>4</sub> O S		8.4 Å × 10.7 Å
Fluoxastrobin	202		2	361377-29-9	C <sub>21</sub> H <sub>16</sub> ClF <sub>4</sub> N <sub>4</sub> O <sub>5</sub>		8.8 Å × 12.6 Å

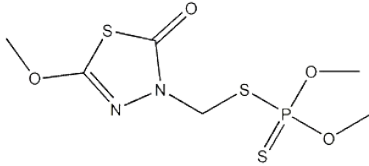
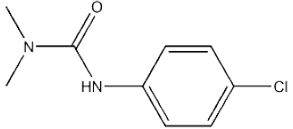
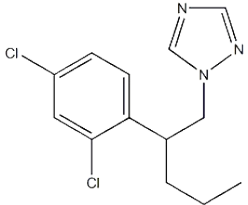
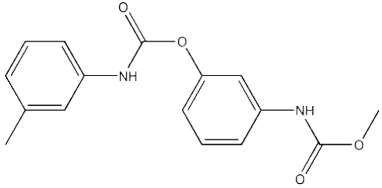
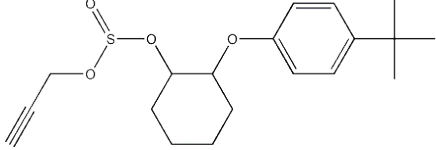
Fluxapyroxad	203	11.73±0.70	3.47	907204-31-3	C <sub>18</sub> H <sub>12</sub> F <sub>5</sub> N <sub>3</sub> O		7.5 Å × 12.3 Å
Silthiofam	204		5.29	175217-20-6	C <sub>13</sub> H <sub>21</sub> NOSSi		6.9 Å × 10.4 Å
Tembotrione	205	3.17±0.50	3	335104-84-2	C <sub>17</sub> H <sub>16</sub> ClF <sub>3</sub> O <sub>6</sub> S		9.2 Å × 10.3 Å
Oxasulfuron	206	5.1	1.1	144651-06-9	C <sub>17</sub> H <sub>18</sub> N <sub>4</sub> O <sub>6</sub> S		9.0 Å × 13.3 Å
Parathion-methyl	207		2.86	298-00-0	C <sub>8</sub> H <sub>10</sub> NO <sub>5</sub> PS		8.1 Å × 8.6 Å

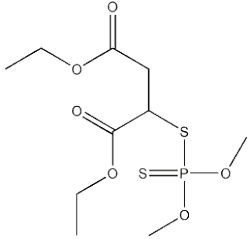
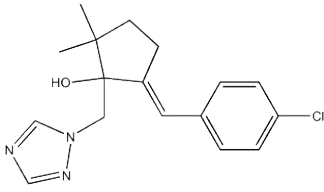
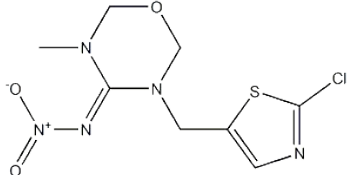
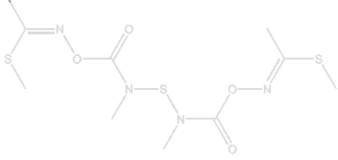
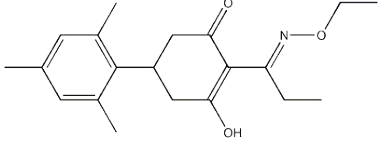
Pirimiphos-methyl	208	3.71	4.2	29232-93-7	C <sub>11</sub> H <sub>20</sub> N <sub>3</sub> O <sub>3</sub> PS		9.2 Å × 10.7 Å
Methiocarb	209	12.16±0.46	2.92	2032-65-7	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub> S		6.9 Å × 8.4 Å
Bifenox	210		4.48	42576-02-3	C <sub>14</sub> H <sub>9</sub> Cl <sub>2</sub> NO <sub>5</sub>		7.3 Å × 9.8 Å
Foramsulfuron	211	4.6	-0.82	173159-57-4	C <sub>17</sub> H <sub>20</sub> N <sub>6</sub> O <sub>7</sub> S		12.9 Å × 14.0 Å
Azoxystrobin	212	-0.93±0.18	2.5	131860-33-8	C <sub>22</sub> H <sub>17</sub> N <sub>3</sub> O <sub>5</sub>		9.0 Å × 13.8 Å

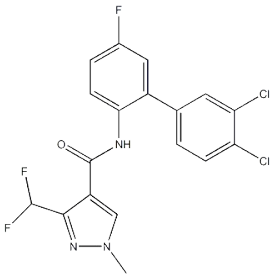
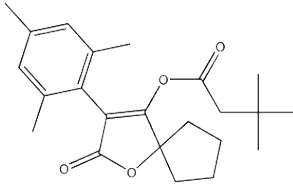
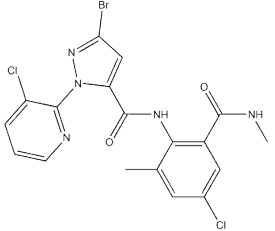
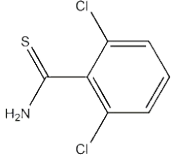
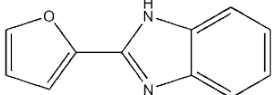
Bupirimate	213	5	2.7	41483-43-6	C <sub>13</sub> H <sub>24</sub> N <sub>4</sub> O <sub>3</sub> S		9.2 Å × 13.0 Å
Triadimefon	214	1.41±0.11	2.77	43121-43-3	C <sub>14</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>2</sub>		7.3 Å × 9.7 Å
Clothianidin	215	2.76±0.50	0.64	210880-92-5	C <sub>6</sub> H <sub>8</sub> ClN <sub>5</sub> O <sub>2</sub> S		6.0 Å × 9.1 Å
Clomazone	216	-1.48±0.40	2.5	81777-89-1	C <sub>12</sub> H <sub>14</sub> ClNO <sub>2</sub>		6.5 Å × 9.1 Å
Dodemorph	217	8.56±0.60	5.7	1593-77-7	C <sub>18</sub> H <sub>35</sub> NO		7.7 Å × 8.8 Å

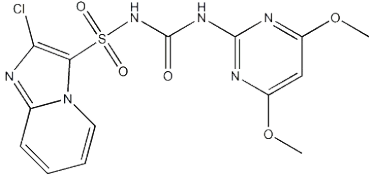
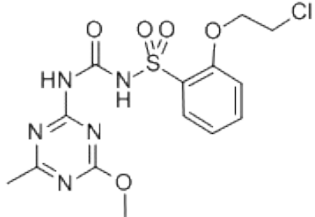
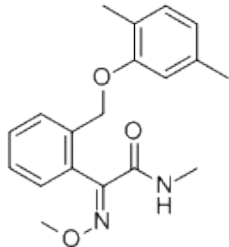
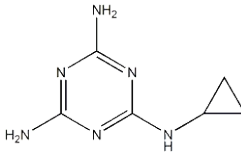
Desmedipham	218	12.96±0.70	3.39	13684-56-5	C <sub>16</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>		7.4 Å × 9.1 Å
Diniconazole	219	12.89±0.20	4.3	83657-24-3	C <sub>15</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>3</sub> O		7.7 Å × 9.6 Å
Imazalil	220	6.53	3.82	35554-44-0	C <sub>14</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>2</sub> O		6.9 Å × 9.6 Å
Isoxaflutole	221	-4.29±0.50	2.32	141112-29-0	C <sub>15</sub> H <sub>12</sub> F <sub>3</sub> NO <sub>4</sub> S		6.8 Å × 8.0 Å
Indoxacarb	222	-1.75±0.40		144171-61-9	C <sub>22</sub> H <sub>17</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>7</sub>		12.2 Å × 13.6 Å

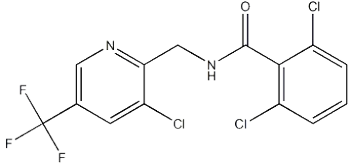
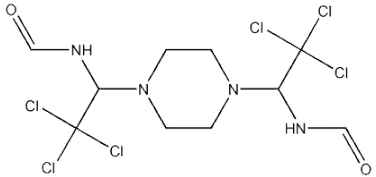
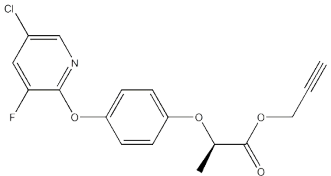
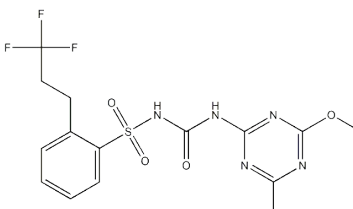
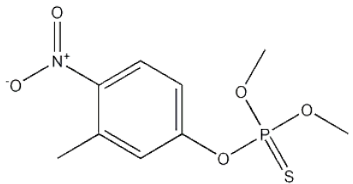


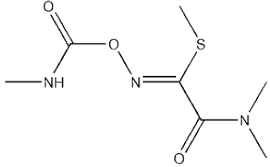
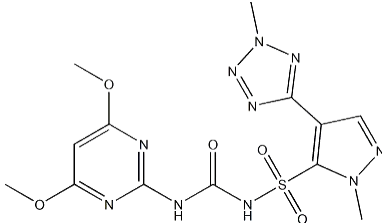
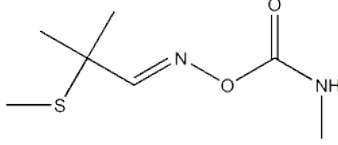
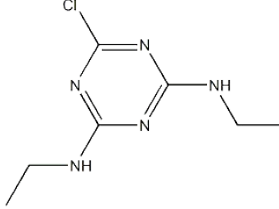
Methidathion	223	-4.17±0.40	2.2	950-37-8	C <sub>6</sub> H <sub>11</sub> N <sub>2</sub> O <sub>4</sub> PS <sub>3</sub>		8.4 Å × 8.9 Å
Monuron	224	14.22±0.70	1.94	150-68-5	C <sub>9</sub> H <sub>11</sub> ClN <sub>2</sub> O		5.0 Å × 8.0 Å
Penconazole	225	2.80±0.10	4.67	66246-88-6	C <sub>13</sub> H <sub>15</sub> Cl <sub>2</sub> N <sub>3</sub>		7.0 Å × 8.5 Å
Phenmedipham	226	13.03±0.70	3.59	13684-63-4	C <sub>16</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>		7.8 Å × 9.3 Å
Propargite	227		5	2312-35-8	C <sub>19</sub> H <sub>26</sub> O <sub>4</sub> S		10.7 Å × 12.8 Å

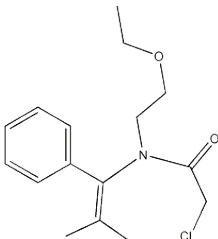
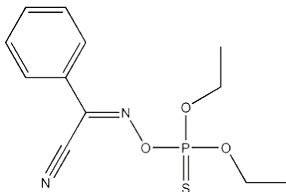
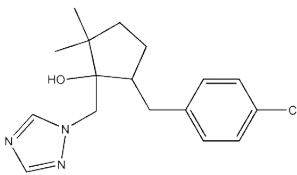
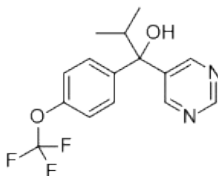
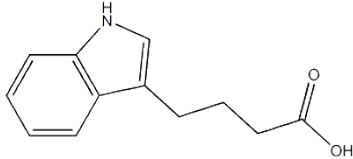
Malathion	228		2.36	121-75-5	$C_{10}H_{19}O_6PS_2$		$9.0 \text{ \AA} \times 10.5 \text{ \AA}$
Triticonazole	229	$13.23 \pm 0.40$	3.29	131983-72-7	$C_{17}H_{20}ClN_3O$		$6.6 \text{ \AA} \times 10.6 \text{ \AA}$
Thiamethoxam	230	$0.99 \pm 0.10$	0.8	153719-23-4	$C_8H_{10}ClN_5O_3S$		$6.0 \text{ \AA} \times 8.8 \text{ \AA}$
Thiodicarb	231		1.7	59669-26-0	$C_{10}H_{18}N_4O_4S_3$		$10.4 \text{ \AA} \times 12.8 \text{ \AA}$
Tralkoxydim	232	$4.20 \pm 0.25$	4.46	87820-88-0	$C_{20}H_{27}NO_3$		$7.4 \text{ \AA} \times 14.1 \text{ \AA}$

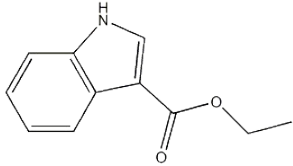
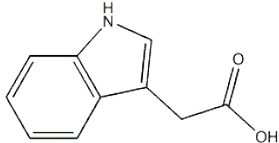
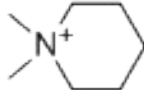
Bixafen	233	10.82±0.70	4.36	581809-46-3	C <sub>18</sub> H <sub>12</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>3</sub> O		7.6 Å × 12.6 Å
Spiromesifen	234		6.08	283594-90-1	C <sub>23</sub> H <sub>30</sub> O <sub>4</sub>		9.5 Å × 12.7 Å
Chlorantraniliprole	235		3.98	500008-45-7	C <sub>18</sub> H <sub>14</sub> BrCl <sub>2</sub> N <sub>5</sub> O <sub>2</sub>		7.9 Å × 12.5 Å
Chlorthiamid	236	11.71±0.29	2.96	1918-13-4	C <sub>7</sub> H <sub>5</sub> Cl <sub>2</sub> NS		5.7 Å × 6.3 Å
Fuberidazole	237	4.6	2.67	3878-19-1	C <sub>11</sub> H <sub>8</sub> N <sub>2</sub> O		6.7 Å × 8.2 Å

Imazosulfuron	238	4	1.72	122548-33-8	C <sub>14</sub> H <sub>13</sub> ClN <sub>6</sub> O <sub>5</sub> S		9.1 Å × 12.9 Å
Triasulfuron	239		2.44	82097-50-5	C <sub>14</sub> H <sub>16</sub> ClN <sub>5</sub> O <sub>5</sub> S		9.1 Å × 10.6 Å
Dimoxystrobin	240	11.29±0.46	5.36	149961-52-4	C <sub>19</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub>		8.0 Å × 10.0 Å
Cyromazine	241	5.2	0.96	66215-27-8	C <sub>6</sub> H <sub>10</sub> N <sub>6</sub>		6.1 Å × 8.1 Å

Fluopicolide	242		4.62	239110-15-7	$C_{14}H_8Cl_3F_3N_2O$		$7.2 \text{ \AA} \times 13.0 \text{ \AA}$
Triforine	243	10.6	2.2	26644-46-2	$C_{10}H_{14}Cl_6N_4O_2$		$8.3 \text{ \AA} \times 10.9 \text{ \AA}$
Clodinafop-propargyl	244	$-1.54 \pm 0.32$	3.9	105512-06-9	$C_{17}H_{13}ClFNO_4$		$9.3 \text{ \AA} \times 12.8 \text{ \AA}$
Prosulfuron	245	$4.30 \pm 0.10$	3.56	94125-34-5	$C_{15}H_{16}F_3N_5O_4S$		$7.0 \text{ \AA} \times 14.6 \text{ \AA}$
Fenitrothion	246		3.3	122-14-5	$C_9H_{12}NO_3PS$		$8.1 \text{ \AA} \times 8.9 \text{ \AA}$

Oxamyl	247		-0.47	23135-22-0	C <sub>7</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub> S		7.4 Å × 8.9 Å
Azimsulfuron	248	3.6	0.65	120162-55-2	C <sub>13</sub> H <sub>16</sub> N <sub>10</sub> O <sub>5</sub> S		10.7 Å × 12.7 Å
Aldicarb	249		1.13	116-06-3	C <sub>7</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S		6.3 Å × 9.1 Å
Simazine	250	2.71±0.10	2.18	122-34-9	C <sub>7</sub> H <sub>12</sub> ClN <sub>5</sub>		7.1 Å × 9.5 Å

Pethoxamid	251	-2.36±0.70	3.39	106700-29-2	C <sub>16</sub> H <sub>22</sub> ClNO <sub>2</sub>		8.3 Å × 8.8 Å
Phoxim	252		4.39	14816-18-3	C <sub>12</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> PS		8.1 Å × 9.9 Å
Metconazole	253	13.82±0.60	3.93	125116-23-6	C <sub>17</sub> H <sub>22</sub> ClN <sub>3</sub> O		6.9 Å × 10.2 Å
Flurprimidol	254	12.23±0.29	3.34	56425-91-3	C <sub>15</sub> H <sub>15</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub>		7.7 Å × 9.5 Å
Indole-3-butyric acid	255	4.83±0.10	2.3	133-32-4	C <sub>12</sub> H <sub>13</sub> NO <sub>2</sub>		8.3 Å × 9.4 Å

EthylIndole-3-carboxylate	256	15.42±0.30	3.04	776-41-0	C <sub>11</sub> H <sub>11</sub> NO <sub>2</sub>		5.4 Å × 10.3 Å
3-Indolylacetic acid	257	4.75	1.41	87-51-4	C <sub>10</sub> H <sub>9</sub> NO <sub>2</sub>		5.7 Å × 7.7 Å
Mepiquat chloride	258			24307-26-4	C <sub>7</sub> H <sub>16</sub> ClN	 Cl <sup>-</sup>	4.1 Å × 7.6 Å



**Table S6** Limits of quantification ( $\mu\text{g}/\text{kg}$ ), estimation of matrix effect for spinach, average recovery ratio (R,%) and relative standard deviation (RSD, n=5, %) at two different pesticides levels (10  $\mu\text{g}/\text{kg}$  and 100  $\mu\text{g}/\text{kg}$ )

Analytes	Serial number	LOQ	ME	10ppb	100ppb	Analytes	Serial number	LOQ	ME	10ppb	100ppb
				R (RSD)	R(RSD)					R (RSD)	R(RSD)
3-Hydroxy-carbofuran	1	10	0.97	108.6 (3.4)	113.7 (2.3)	Ethofenprox	25	10	0.75	68.6 (9.5)	63.3 (11.8)
4-Bromo-3,5-dimethylphenyl-N-methyl-carbamate	2	10	0.55	115.7 (2.9)	106.3 (4.5)	Promecarb	26	10	0.57	109.3 (11.5)	105.0 (9.4)
Fenpropidin	3	10	0.87	99.7 (3.4)	94.5 (3.4)	Benodanil	27	10	0.92	94.1 (5.3)	92.8 (3.4)
Fenoxycarb	4	10	1.03	110.7 (8.2)	107.4 (9.1)	Mecarbam	28	10	0.35	94.4 (9.7)	102.0 (2.7)
Dichlofenthion	5	10	0.87	106.8 (4.1)	102.3 (0.7)	Diphenamid	29	10	0.85	104.6 (3.0)	95.0 (3.8)
Trichlorfon	6	10	0.98	100.4 (1.5)	95.8 (1.0)	Triflumuron	30	10	0.99	67.5 (2.0)	68.0 (1.7)
Propachlor	7	10	0.92	119.5 (1.0)	113.1 (9.0)	Tricyclazole	31	10	2.05	78.0 (1.9)	78.3 (3.2)
Dioxathion	8	10	1.01	97.3 (0.3)	102.1 (1.6)	Propamocarb	32	10	0.93	104.9 (2.3)	100.6 (1.0)
Tebuthiuron	9	10	2.95	107.5 (4.2)	96.9 (3.5)	Cymoxanil	33	10	2.83	72.0 (5.0)	86.6 (7.6)
Lontrel	10	10	1.74	105.2 (4.4)	107.3 (3.4)	Etoxazole	34	10	0.78	102.9 (3.0)	95.8 (0.7)

Dinotefuran	11	10	0.21	119.9 (3.9)	118.9 (5.3)	Altrenogest	35	10	0.99	111.0 (2.7)	103.9 (3.5)
Furanthiocarb	12	10	0.61	100.3 (12.5)	111.7 (12.3)	Tolfenamic acid	36	10	1.02	60.5 (3.1)	72.7 (3.2)
Bioallethrin	13	10	0.82	109.0 (11.5)	101.1 (8.9)	Aldicarb- sulfone	37	10	0.52	108.5 (4.2)	90.8 (8.2)
Asulam	14	10	0.95	108.6 (6.5)	113.8 (5.1)	Aldicarb sulfoxide	38	10	0.4	97.8 (16.4)	99.2 (5.6)
Griseofulvin	15	10	0.78	92.1 (1.7)	95.4 (3.5)	DEF 6	39	10	0.77	101.2 (0.9)	99.9 (1.0)
Sulfosulfuron	16	10	0.85	86.6 (0.7)	83.8 (1.5)	Carboxin	40	10	0.86	108.1 (2.6)	100.1 (1.2)
Benoxacor	17	10	0.97	97.2 (3.7)	95.9 (2.4)	Methoprene	41	10	0.91	100.5 (3.6)	106.8 (7.2)
Bromuconazol	18	10	1.12	103.9 (0.9)	101.1 (1.1)	EPTC	42	10	0.92	100.9 (3.7)	115.9 (8.3)
Butafenacil	19	10	0.31	114.9 (2.5)	107.5 (2.3)	Ethiofencarb	43	10	0.59	94.5 (7.6)	110.5 (14.3)
Thiodicarb	20	10	0.37	87.8 (15.8)	99.9 (11.5)	Ethion	44	10	0.38	104.7 (5.7)	107.8 (9.3)
Mesurol	21	10	0.69	91.0 (6.3)	84.1 (11.5)	Diethofencarb	45	10	0.89	103.1 (2.0)	112.1 (4.5)
Flazasulfuron	22	10	0.68	83.9 (3.2)	88.2 (3.6)	Triallate	46	10	0.56	87.2 (13.7)	95.0 (15.9)
Methomyl	23	10	0.64	95.8 (6.2)	110.3 (9.0)	Mandestrobin	47	10	1.05	91.0 (3.4)	92.7 (2.7)

Aminocarb	24	10	1.11	112.7 (1.8)	109.1 (2.1)	Valifenalate	48	10	0.87	103.2 (1.0)	109.0 (0.6)
Chlormequat	49	10	0.59	103.2 (4.1)	114.7 (1.6)	Diazinon	81	10	1.57	101.5 (1.1)	107.6 (2.1)
Fenpyrazamine	50	10	1.08	103.1 (0.7)	109.7 (0.6)	Flutriafol	82	10	0.18	108.8 (2.5)	100.3 (10.8)
Fenthion	51	10	1.02	95.4 (5.8)	97.8 (3.2)	Rimsulfuron	83	10	0.32	73.8 (10.8)	73.2 (7.6)
Aclonifen	52	10	1.20	64.2 (6.6)	65.9 (7.1)	Phosalone	84	10	1.04	69.7 (0.7)	72.0 (2.5)
Difenoconazole	53	10	1.96	99.6 (2.9)	95.5 (3.6)	Fluvalinate	85	10	0.74	95.2 (5.0)	94.2 (2.5)
Phenothrin	54	10	1.03	93.6 (8.9)	97.7 (6.7)	Fluopyram	86	10	0.89	101.8 (0.93)	107.7 (0.4)
Saflufenacil	55	10	0.47	105.3 (2.5)	110.4 (0.8)	Fluazinam	87	10	1.46	97.3 (9.9)	97.8 (2.3)
Zoxamide	56	10	1.12	105.1 (6.0)	106.4 (3.3)	Sulfoxaflor	88	10	1.16	109.5 (2.6)	106.9 (3.6)
Fenamiphos	57	10	1.25	95.7 (2.7)	97.0 (3.3)	Flonicamid	89	10	0.64	99.3 (4.1)	107.5 (1.5)
Pyraflufen Ethyl	58	10	1.00	99.3 (6.9)	106.4 (2.8)	Flusilazole	90	10	1.18	100.0 (5.1)	105.7 (3.1)
Pyriproxyfen	59	10	1.35	69.0 (1.1)	80.4 (1.7)	Epoxiconazole	91	10	1.18	87.8 (3.1)	91.5 (2.3)
Haloxyfop	60	10	1.13	105.4 (3.5)	100.1 (3.4)	Tetraconazole	92	10	0.98	99.3 (2.3)	108.2 (1.9)

Isopyrazam	61	10	1.07	99.9 (0.8)	101.2 (1.6)	Flucythrinate	93	10	1.03	75.3 (9.5)	104.7 (11.7)
Resmethrin	62	10	0.94	102.0 (2.7)	100.1 (0.7)	Flufenacet	94	10	1.16	100.7 (7.8)	101.3 (2.5)
Propoxycarbazone- sodium	63	10	0.67	93.3 (3.2)	105.1 (2.8)	Flutolanil	95	10	1.96	107.2 (8.4)	110.5 (4.9)
Propiconazole	64	10	1.15	97.8 (1.9)	103.9 (3.7)	Procymidone	96	10	1.39	109.5 (5.3)	101.8 (3.4)
Prothioconazole	65	10	1.10	98.3 (1.7)	105.5 (1.8)	Thiobencarb	97	10	1.26	104.7 (6.6)	101.7 (7.4)
Oxadiargyl	66	10	1.10	100.0 (1.6)	106.8 (1.4)	Molinate	98	10	1.58	109.6 (5.9)	107.4 (6.6)
Flumioxazin	67	10	0.28	100.7 (1.5)	107.6 (5.1)	Cyproconazole	99	10	1.26	98.6 (2.1)	110.8 (3.8)
Iprovalicarb	68	10	1.98	95.3 (8.7)	99.5 (10.8)	Chromafenozi de	100	10	0.94	102.0 (1.9)	107.8 (1.7)
Methacrifos	69	10	2.83	104.2 (5.9)	102.4 (7.7)	Cyflufenamide	101	10	0.96	101.2 (1.5)	109.4 (2.5)
Isoprothiolane	70	10	0.75	103.3 (2.9)	109.0 (2.6)	Sulcotrione	102	10	0.32	99.5 (11.6)	103.0 (9.2)
Tepraloxydim	71	10	0.18	87.5 (3.9)	90.1 (6.5)	Metosulam	103	10	0.23	93.7 (1.6)	90.0 (4.8)
Diuron	72	10	1.35	84.3 (4.9)	87.4 (9.9)	Tolyfluanide	104	10	1.09	108.4 (7.0)	108.5 (3.8)
Anilazine	73	10	1.01	54.7 (2.2)	58.8 (3.6)	Alachlor	105	10	1.33	68.5 (5.7)	103.5 (5.6)

Iodosulfuron-methyl	74	10	1.07	64.5 (3.7)	63.3 (3.1)	Metsulfuron methyl	106	10	0.28	87.0 (2.3)	88.1 (3.5)
Daminozide	75	10	0.70	105.7 (7.3)	99.5 (6.1)	Mesosulfuron- methyl	107	10	0.13	66.1 (10.7)	74.1 (15.2)
Acetamiprid	76	10	1.13	102.1 (6.7)	105.1 (4.8)	Tolclofos- methyl	108	10	1.10	96.6 (3.1)	94.3 (4.9)
Picoxystrobin	77	10	1.11	104.7 (2.6)	110.0 (2.2)	Thiophanate- methyl	109	10	0.34	86.6 (4.4)	93.0 (1.8)
Carbendazim	78	10	0.87	35.5 (1.6)	72.0 (2.3)	Carbaryl	110	10	0.23	73.3 (14.6)	80.0 (3.6)
Sandofan	79	10	1.71	98.2 (3.1)	113.4 (2.6)	Metalaxyl	111	10	0.27	113.6 (3.0)	101.9 (12.7)
Diphenylamine	80	10	1.67	68.7 (1.3)	91.3 (0.8)	Metazachlor	112	10	0.10	112.6 (5.3)	100.2 (6.6)
Tebufenozide	113	10	0.92	102.8 (12.8)	108.1 (1.5)	Tridemorph	145	10	1.20	95.2 (8.3)	100.1 (3.0)
Famoxadone	114	10	1.11	104.0 (4.9)	103.0 (1.9)	Bromophos- ethyl	146	10	1.05	68.0 (3.4)	73.0 (0.3)
Emamectin	115	10	0.97	74.0 (4.0)	83.4 (1.7)	Chloroxuron	147	10	1.25	93.7 (4.5)	95.7 (1.2)
cis and trans-Diallate	116	10	0.84	87.6 (15.9)	119.2 (7.3)	Bromopropyla te	148	10	1.15	98.8 (2.5)	100.2 (3.3)
Chloridazon	117	10	0.56	100.0 (3.0)	103.1 (2.0)	Nicosulfuron	149	10	0.45	64.2 (4.1)	74.1 (2.1)
Pendimethaline	118	10	1.1	78.1 (2.6)	90.7 (3.1)	Fenpyroximate	150	10	1.24	68.1 (4.3)	67.7 (2.6)

Trinexapac-ethyl	119	10	0.34	104.0 (5.1)	102.9 (3.2)	Acequinocyl	151	10	1.30	65.8 (4.1)	79.3 (3.3)
Spirotetramat	120	10	1.15	106.8 (5.4)	111.9 (2.1)	Bifenazate	152	10	0.97	63.9 (3.0)	64.9 (1.5)
Cadusafos	121	10	0.9	102.3 (7.3)	104.5 (0.1)	Trifloxystrobin	153	10	1.20	104.7 (3.7)	107.3 (0.5)
Quinalphos	122	10	1.27	84.0 (5.2)	82.6 (2.5)	Cyantraniliprole	154	10	0.20	60.9 (3.3)	65.3 (3.3)
Orthosulfamuron	123	10	0.62	53.7 (3.4)	62.8 (3.6)	Phosmet	155	10	1.43	102.9 (4.5)	103.4 (0.7)
Cyhalofop-butyl	124	10	1.07	97.9 (10.0)	99.1 (2.8)	Bitertanol	156	10	1.22	101.4 (2.6)	101.1 (2.7)
Cyazofamid	125	10	1.38	105.0 (7.1)	100.3 (2.6)	Triadimenol	157	10	1.34	98.6 (5.7)	103.5 (0.9)
Lactofen	126	10	1.26	98.9 (4.1)	110.9 (1.3)	Maleic hydrazide	158	10	2.32	66.3 (4.7)	89.7 (4.4)
Florasulam	127	10	1.14	94.2 (2.3)	101.0 (1.4)	Metolachlor	159	10	1.28	106.6 (5.0)	104.8 (1.7)
Mandipropamid	128	10	1.18	101.4 (5.2)	101.7 (1.3)	Triclopyr	160	10	0.27	102.5 (9.2)	109.3 (2.9)
Mesotrione	129	10	1.02	101.8 (4.8)	92.0 (2.7)	Fenamidone	161	10	0.96	106.7 (5.7)	105.3 (1.4)
Oxydemeton-methyl	130	10	1.1	95.7 (9.9)	104.6 (3.0)	Novaluron	162	10	1.22	75.4 (4.0)	80.3 (2.4)
Oxycarboxin	131	10	1.38	103.8 (12.9)	107.9 (1.7)	Monolinuron	163	10	2.58	81.2 (10.8)	97.2 (3.9)

Spinetoram L	132	10	1.21	91.1 (5.3)	86.7 (0.8)	Carbofuran	164	10	1.96	111.2 (10.5)	92.6 (2.2)
Ethirimol	133	10	0.45	72.1 (7.2)	74.1 (2.7)	Tefluthrin	165	10	1.25	103.7 (2.7)	101.0 (3.7)
Ethoxyquin	134	10	2.44	98.0 (1.2)	108.8 (3.8)	Buprofezin	166	10	1.22	105.5 (5.3)	102.3 (0.7)
Propisochlor	135	10	0.98	104.0 (14.7)	102.1 (0.8)	Dimethomorp h	167	10	1.00	107.5 (5.2)	101.4 (0.5)
Isoproturon	136	10	0.41	102.2 (6.5)	101.7 (3.9)	Warfarin	168	10	1.60	105.2 (4.2)	104.5 (0.8)
Butralin	137	10	1.41	104.7 (4.4)	105.7 (1.6)	Metribuzin	169	10	9.26	96.6 (3.6)	105.3 (1.4)
Azocyclotin	138	10	0.76	87.2 (12.6)	86.6 (1.7)	Pirimicarb	170	10	0.89	97.8 (1.4)	94.7 (2.1)
Amidosulfuron	139	10	0.1	67.1 (8.5)	75.4 (4.7)	Fenbuconazole	171	10	1.28	94.2 (4.9)	92.0 (0.5)
Fentin	140	10	1.22	91.5 (3.9)	101.8 (0.3)	Chlorotoluron	172	10	0.22	90.9 (4.7)	87.6 (4.9)
Ametoctradin	141	10	1.02	58.6 (5.6)	52.1 (2.9)	Acetochlor	173	10	1.27	101.4 (4.3)	104.3 (2.1)
Atrazine	142	10	0.40	97.7 (2.7)	97.8 (6.8)	Methoxyfeno zide	174	10	1.19	98.2 (4.2)	104.6 (0.8)
Vinclozolin	143	10	0.47	70.4 (3.2)	115.6 (2.0)	Amitraz	175	10	1.09	90.6 (4.1)	110.5 (6.0)
Barban	144	10	1.16	93.1 (3.5)	102.7 (3.7)	Acephate	176	10	1.21	86.7 (4.2)	99.6 (6.0)

Flupyradifurone	177	10	0.78	89.1 (6.1)	112.8 (2.3)	Methiocarb	209	10	2.85	81.4 (2.4)	109.0 (3.7)
Pyrasulfotole	178	10	0.95	88.8 (1.0)	101.2 (0.5)	Bifenox	210	10	1.23	106.6 (4.3)	106.8 (3.2)
Abamectin	179	10	1.07	67.2 (8.1)	71.7 (3.4)	Foramsulfuron	211	10	0.19	64.6 (4.6)	83.2 (4.0)
Oryzalin	180	10	1.24	95.6 (4.1)	107.9 (0.6)	Azoxystrobin	212	10	0.53	95.3 (1.5)	108.6 (2.5)
Benzovindiflupyr	181	10	1.28	88.8 (5.2)	97.8 (1.8)	Bupirimate	213	10	0.86	88.6 (1.8)	97.2 (1.1)
Metrafenone	182	10	1.36	76.7 (1.1)	91.7 (0.7)	Triadimefon	214	10	1.16	98.7 (2.3)	109.8 (0.4)
Benthiavalicarb isopropyl	183	10	1.48	90.3 (3.6)	106.0 (1.2)	Clothianidin	215	10	1.03	99.8 (6.5)	110.4 (3.5)
Benzalkonium chloride	184	10	1.64	77.6 (0.3)	80.0 (0.9)	Clomazone	216	10	1.62	94.8 (4.2)	108.3 (1.4)
Imidacloprid	185	10	1.27	96.7 (2.0)	106.6 (4.8)	Dodemorph	217	10	0.49	82.8 (2.4)	99.6 (2.8)
Tebufenpyrad	186	10	1.50	89.4 (0.8)	101.1 (1.3)	Desmedipham	218	10	1.01	69.9 (2.8)	74.0 (3.4)
Penthiopyrad	187	10	1.45	93.5 (2.5)	112.6 (1.1)	Diniconazole	219	10	1.41	70.1 (1.8)	82.0 (1.3)
Prosulfocarb	188	10	1.43	101.6 (7.1)	104.8 (3.1)	Imazalil	220	10	0.54	84.2 (3.6)	102.5 (3.1)
Profenofos	189	10	1.34	84.9 (1.3)	95.9 (2.6)	Isoxaflutole	221	10	0.48	101.1 (8.8)	118.0 (4.7)



Cycloxydim	190	10	1.28	88.7 (9.2)	81.1 (1.4)	Indoxacarb	222	10	1.27	103.9 (3.7)	105.6 (3.7)
Pyridaben	191	10	1.48	92.3 (2.0)	101.0 (2.0)	Methidathion	223	10	0.38	106.8 (1.0)	104.7 (1.6)
Propanil	192	10	2.49	74.2 (1.7)	93.3 (2.9)	Monuron	224	10	2.07	83.4 (1.4)	100.7 (1.4)
Butylate	193	10	0.85	103.3 (8.1)	107.8 (7.9)	Penconazole	225	10	1.41	99.4 (9.8)	117.1 (4.5)
Chlorfenvinphos	194	10	1.51	92.6 (5.0)	109.0 (1.1)	Phenmedipha m	226	10	1.73	56.0 (2.9)	79.4 (2.8)
Chlorpyrifos	195	10	1.35	90.1 (1.4)	85.0 (1.8)	Propargite	227	10	0.93	93.3 (3.7)	109.2 (1.5)
Dimethenamid	196	10	1.68	100.4 (3.8)	109.6 (2.4)	Malathion	228	10	1.66	98.7 (7.8)	113.1 (5.6)
Flurtamone	197	10	1.00	91.3 (2.0)	108.3 (1.4)	Triticonazole	229	10	1.78	89.2 (0.6)	106.0 (2.7)
Formetanate Hydrochloride	198	10	1.09	91.6 (4.0)	111.7 (1.5)	Thiamethoxam	230	10	1.65	106.4 (8.2)	113.7 (2.0)
Flubendiamide	199	10	1.48	97.4 (5.4)	102.9 (4.7)	Thiacloprid	231	10	1.04	92.0 (5.1)	110.8 (5.5)
Beflubutamid	200	10	1.47	97.4 (0.8)	111.0 (1.0)	Tralkoxydim	232	10	1.56	84.9 (0.9)	96.7 (2.9)
Fipronil	201	10	1.40	90.5 (4.4)	101.9 (3.5)	Bixafen	233	10	1.84	67.4 (3.0)	87.5 (1.5)
Fluoxastrobin	202	10	1.26	96.6 (0.5)	109.2 (0.5)	Spiromesifen	234	10	0.97	106.6 (13.1)	119.6 (0.9)

Fluxapyroxad	203	10	1.12	84.0 (3.1)	100.0 (1.0)	Chlorantranili prole	235	10	1.24	69.4 (9.4)	72.1 (10.5)
Silthiofam	204	10	1.49	70.5 (6.9)	118.2 (8.2)	Chlorthiamid	236	10	0.35	111.7 (3.7)	98.9 (1.1)
Tembotrione	205	10	1.06	72.9 (4.5)	101.7 (6.2)	Fuberidazole	237	10	1.51	43.1 (0.8)	66.0 (3.0)
Oxasulfuron	206	10	0.87	67.3 (5.2)	78.0 (1.8)	Imazosulfuron	238	10	1.09	52.2 (2.3)	63.8 (2.3)
Parathion-methyl	207	10	0.68	109.7 (9.1)	99.2 (3.7)	Triasulfuron	239	10	0.41	78.7 (8.8)	93.6 (0.9)
Pirimiphos-methyl	208	10	1.54	89.6 (3.6)	113.8 (2.6)	Dimoxystrobin	240	10	1.57	85.5 (3.4)	112.0 (0.9)
Cyromazine	241	10	1.23	76.2 (3.1)	85.7 (2.2)	Simazine	250	10	1.48	88.3 (11.6)	100.2 (0.7)
Fluopicolide	242	10	1.35	90.4 (5.8)	104.1 (2.4)	Pethoxamid	251	10	2.72	99.1 (5.1)	114.6 (3.4)
Triforine	243	10	1.38	96.8 (0.3)	103.3 (6.1)	Phoxim	252	10	1.92	109.2(3.8)	106.6 (5.5)
Clodinafop-propargyl	244	10	1.49	92.1 (2.2)	108.0 (1.6)	Metconazole	253	10	1.83	96.4 (5.0)	102.2 (3.8)
Prosulfuron	245	10	0.78	80.5 (2.1)	96.0 (0.8)	Flurprimidol	254	10	1.25	110.3 (0.6)	111.3 (0.7)
Fenitrothion	246	10	2.30	94.5 (6.5)	107.4 (1.6)	Indole-3- butyric acid	255	10	2.07	103.7 (12.6)	107.6 (4.9)
Oxamyl	247	10	1.29	106.8 (2.1)	108.0 (4.5)	EthylIndole-3- carboxylate	256	10	0.70	93.0 (4.7)	94.9 (3.4)

Azimsulfuron	248	10	0.17	82.1 (10.5)	90.0 (5.5)	3-Indolylacetic acid	257	10	0.67	96.6 (12.3)	106.6 (7.8)
Aldicarb	249	10	0.6	119.9 (7.3)	114.8 (2.2)	Mepiquat chloride	258	10	1.59	106.3 (1.4)	113.6 (2.1)