

Analytical Results for Pesticides in Infant Formula

The data in this table represent 3 of 312 samples of infant formulas tested for 318 pesticides that found quantifiable levels. These data were collected in FY2023-2025 as part of a special survey. For the remaining 309 samples, no pesticides were observed above the Minimum Reporting Concentration (MRC).

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a][b]}
12	Infant Formula, Powder, Cow Milk-based	Chlorpyrifos	0.25 ppb
100	Infant Formula, Powder, Amino Acid-based	Piperonyl butoxide	0.20 ppb
264	Infant Formula, Powder, Cow Milk-based	Malathion	0.20 ppb

[a] Powder, Ready-to-Feed Liquids, and Concentrated Liquids were analyzed as sold. Results are reported as prepared for feeding to allow for comparisons among samples, where ppb=parts per billion (ug/kg). Calculations of these reported concentrations were based on label preparation instructions.

[b] Pesticide analyses were conducted using GC- and LC-tandem mass spectrometry. The Minimum Reporting Concentration (MRC) represents the lowest quantifiable concentration for each analyte, verified by fortification in infant formula powder, and ranges from 1 ug/kg to 25 ug/kg. Reported concentrations in samples may be observed below the MRC values because MRC values are based on analysis of the product as sold, while the reported concentrations reflect the prepared for feeding form.

Analytical Results for Pesticides in Infant Formula

The data in this table represent 312 samples of infant formulas tested for 318 pesticides in FY2023-2025 as part of a special survey.

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a], [b]}
1	Infant Formula, Powder, Cow Milk-based	all	<MRC
2	Infant Formula, Powder, Cow Milk-based	all	<MRC
3	Infant Formula, Powder, Cow Milk-based	all	<MRC
4	Infant Formula, Powder, Cow Milk-based	all	<MRC
5	Infant Formula, Powder, Cow Milk-based	all	<MRC
6	Infant Formula, Powder, Cow Milk-based	all	<MRC
7	Infant Formula, Powder, Cow Milk-based	all	<MRC
8	Infant Formula, Powder, Cow Milk-based	all	<MRC
9	Infant Formula, Powder, Soy-based	all	<MRC
10	Infant Formula, Powder, Cow Milk-based	all	<MRC
11	Infant Formula, Powder, Cow Milk-based	all	<MRC
12	Infant Formula, Powder, Cow Milk-based	Chlorpyrifos	0.25 ppb
13	Infant Formula, Powder, Cow Milk-based	all	<MRC
14	Infant Formula, Powder, Cow Milk-based	all	<MRC
15	Infant Formula, Powder, Cow Milk-based	all	<MRC
16	Infant Formula, Powder, Cow Milk-based	all	<MRC
17	Infant Formula, Powder, Cow Milk-based	all	<MRC
18	Infant Formula, Powder, Cow Milk-based	all	<MRC
19	Infant Formula, Powder, Cow Milk-based	all	<MRC
20	Infant Formula, Powder, Cow Milk-based	all	<MRC
21	Infant Formula, Powder, Cow Milk-based	all	<MRC
22	Infant Formula, Powder, Cow Milk-based	all	<MRC
23	Infant Formula, Powder, Cow Milk-based	all	<MRC
24	Infant Formula, Powder, Cow Milk-based	all	<MRC
25	Infant Formula, Powder, Cow Milk-based	all	<MRC
26	Infant Formula, Powder, Cow Milk-based	all	<MRC
27	Infant Formula, Powder, Cow Milk-based	all	<MRC
28	Infant Formula, Powder, Cow Milk-based	all	<MRC
29	Infant Formula, Powder, Cow Milk-based	all	<MRC
30	Infant Formula, Powder, Cow Milk-based	all	<MRC
31	Infant Formula, Powder, Cow Milk-based	all	<MRC
32	Infant Formula, Powder, Cow Milk-based	all	<MRC
33	Infant Formula, Powder, Cow Milk-based	all	<MRC
34	Infant Formula, Powder, Cow Milk-based	all	<MRC
35	Infant Formula, Powder, Cow Milk-based	all	<MRC
36	Infant Formula, Powder, Cow Milk-based	all	<MRC
37	Infant Formula, Powder, Cow Milk-based	all	<MRC
38	Infant Formula, Powder, Cow Milk-based	all	<MRC
39	Infant Formula, Powder, Cow Milk-based	all	<MRC
40	Infant Formula, Powder, Cow Milk-based	all	<MRC
41	Infant Formula, Powder, Cow Milk-based	all	<MRC
42	Infant Formula, Powder, Cow Milk-based	all	<MRC
43	Infant Formula, Powder, Cow Milk-based	all	<MRC
44	Infant Formula, Powder, Cow Milk-based	all	<MRC

[a] Powder, Ready-to-Feed Liquids, and Concentrated Liquids were analyzed as sold. Results are reported as prepared for feeding to allow for comparisons among samples, where ppb=parts per billion (ug/kg). Calculations of these reported concentrations were based on label preparation instructions.

[b] Pesticide analyses were conducted using GC- and LC-tandem mass spectrometry. The Minimum Reporting Concentration (MRC) represents the lowest quantifiable concentration for each analyte, verified by fortification in infant formula powder, and ranges from 1 ug/kg to 25 ug/kg. Reported concentrations in samples may be observed below the MRC values because MRC values are based on the product as sold, while the reported concentrations reflect the prepared for feeding form.

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a], [b]}
45	Infant Formula, Powder, Cow Milk-based	all	<MRC
46	Infant Formula, Powder, Cow Milk-based	all	<MRC
47	Infant Formula, Powder, Cow Milk-based	all	<MRC
48	Infant Formula, Powder, Cow Milk-based	all	<MRC
49	Infant Formula, Powder, Cow Milk-based	all	<MRC
50	Infant Formula, Powder, Cow Milk-based	all	<MRC
51	Infant Formula, Powder, Cow Milk-based	all	<MRC
52	Infant Formula, Powder, Cow Milk-based	all	<MRC
53	Infant Formula, Powder, Cow Milk-based	all	<MRC
55	Infant Formula, Powder, Cow Milk-based	all	<MRC
56	Infant Formula, Powder, Cow Milk-based	all	<MRC
57	Infant Formula, Powder, Cow Milk-based	all	<MRC
58	Infant Formula, Powder, Soy-based	all	<MRC
59	Infant Formula, Powder, Cow Milk-based	all	<MRC
60	Infant Formula, Powder, Cow Milk-based	all	<MRC
61	Infant Formula, Powder, Cow Milk-based	all	<MRC
62	Infant Formula, Powder, Cow Milk-based	all	<MRC
63	Infant Formula, Powder, Cow Milk-based	all	<MRC
64	Infant Formula, Powder, Cow Milk-based	all	<MRC
65	Infant Formula, Powder, Cow Milk-based	all	<MRC
66	Infant Formula, Powder, Soy-based	all	<MRC
67	Infant Formula, Powder, Cow Milk-based	all	<MRC
68	Infant Formula, Powder, Cow Milk-based	all	<MRC
69	Infant Formula, Powder, Soy-based	all	<MRC
70	Infant Formula, Powder, Cow Milk-based	all	<MRC
72	Infant Formula, Powder, Cow Milk-based	all	<MRC
73	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
74	Infant Formula, Powder, Cow Milk-based	all	<MRC
75	Infant Formula, Powder, Cow Milk-based	all	<MRC
76	Infant Formula, Powder, Cow Milk-based	all	<MRC
77	Infant Formula, Powder, Soy-based	all	<MRC
78	Infant Formula, Powder, Cow Milk-based	all	<MRC
79	Infant Formula, Powder, Cow Milk-based	all	<MRC
80	Infant Formula, Powder, Cow Milk-based	all	<MRC
81	Infant Formula, Powder, Cow Milk-based	all	<MRC
82	Infant Formula, Powder, Soy-based	all	<MRC
85	Infant Formula, Powder, Cow Milk-based	all	<MRC
86	Infant Formula, Powder, Cow Milk-based	all	<MRC
87	Infant Formula, Powder, Cow Milk-based	all	<MRC
88	Infant Formula, Powder, Soy-based	all	<MRC
89	Infant Formula, Powder, Cow Milk-based	all	<MRC
90	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
91	Infant Formula, Powder, Cow Milk-based	all	<MRC
92	Infant Formula, Powder, Cow Milk-based	all	<MRC
93	Infant Formula, Powder, Cow Milk-based	all	<MRC
94	Infant Formula, Powder, Cow Milk-based	all	<MRC
95	Infant Formula, Powder, Cow Milk-based	all	<MRC
96	Infant Formula, Powder, Soy-based	all	<MRC
97	Infant Formula, Powder, Cow Milk-based	all	<MRC
98	Infant Formula, Powder, Cow Milk-based	all	<MRC
99	Infant Formula, Powder, Cow Milk-based	all	<MRC
100	Infant Formula, Powder, Cow Milk-based	Piperonyl butoxide	0.20 ppb
101	Infant Formula, Powder, Cow Milk-based	all	<MRC
102	Infant Formula, Powder, Cow Milk-based	all	<MRC
103	Infant Formula, Powder, Soy-based	all	<MRC
104	Infant Formula, Powder, Cow Milk-based	all	<MRC
105	Infant Formula, Powder, Cow Milk-based	all	<MRC

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a], [b]}
106	Infant Formula, Ready-to-Feed Liquid, Soy-based	all	<MRC
107	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
108	Infant Formula, Powder, Cow Milk-based	all	<MRC
109	Infant Formula, Powder, Cow Milk-based	all	<MRC
110	Infant Formula, Powder, Cow Milk-based	all	<MRC
111	Infant Formula, Powder, Soy-based	all	<MRC
112	Infant Formula, Powder, Cow Milk-based	all	<MRC
113	Infant Formula, Powder, Cow Milk-based	all	<MRC
114	Infant Formula, Powder, Cow Milk-based	all	<MRC
115	Infant Formula, Powder, Cow Milk-based	all	<MRC
116	Infant Formula, Powder, Cow Milk-based	all	<MRC
117	Infant Formula, Powder, Cow Milk-based	all	<MRC
120	Infant Formula, Powder, Cow Milk-based	all	<MRC
121	Infant Formula, Powder, Cow Milk-based	all	<MRC
122	Infant Formula, Powder, Cow Milk-based	all	<MRC
123	Infant Formula, Powder, Cow Milk-based	all	<MRC
124	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
125	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
126	Infant Formula, Powder, Soy-based	all	<MRC
127	Infant Formula, Powder, Soy-based	all	<MRC
128	Infant Formula, Powder, Soy-based	all	<MRC
129	Infant Formula, Powder, Soy-based	all	<MRC
130	Infant Formula, Powder, Cow Milk-based	all	<MRC
131	Infant Formula, Powder, Cow Milk-based	all	<MRC
132	Infant Formula, Powder, Cow Milk-based	all	<MRC
133	Infant Formula, Concentrated Liquid, Soy-based	all	<MRC
134	Infant Formula, Ready-to-Feed Liquid, Soy-based	all	<MRC
135	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
136	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
137	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
138	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
139	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
140	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
141	Infant Formula, Ready-to-Feed Liquid, Soy-based	all	<MRC
142	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
143	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
144	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
145	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
146	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
147	Infant Formula, Powder, Cow Milk-based	all	<MRC
148	Infant Formula, Powder, Cow Milk-based	all	<MRC
149	Infant Formula, Powder, Cow Milk-based	all	<MRC
150	Infant Formula, Powder, Cow Milk-based	all	<MRC
151	Infant Formula, Powder, Soy-based	all	<MRC
152	Infant Formula, Powder, Cow Milk-based	all	<MRC
154	Infant Formula, Powder, Cow Milk-based	all	<MRC
155	Infant Formula, Powder, Amino Acid-based	all	<MRC
157	Infant Formula, Powder, Soy-based	all	<MRC
158	Infant Formula, Powder, Cow Milk-based	all	<MRC
159	Infant Formula, Powder, Cow Milk-based	all	<MRC
160	Infant Formula, Powder, Cow Milk-based	all	<MRC
161	Infant Formula, Powder, Cow Milk-based	all	<MRC
162	Infant Formula, Powder, Soy-based	all	<MRC
163	Infant Formula, Powder, Cow Milk-based	all	<MRC
164	Infant Formula, Powder, Cow Milk-based	all	<MRC
165	Infant Formula, Powder, Cow Milk-based	all	<MRC
166	Infant Formula, Powder, Cow Milk-based	all	<MRC

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a], [b]}
167	Infant Formula, Powder, Cow Milk-based	all	<MRC
168	Infant Formula, Powder, Cow Milk-based	all	<MRC
170	Infant Formula, Powder, Amino Acid-based	all	<MRC
171	Infant Formula, Powder, Cow Milk-based	all	<MRC
172	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
173	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
174	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
175	Infant Formula, Concentrated Liquid, Soy-based	all	<MRC
176	Infant Formula, Concentrated Liquid, Soy-based	all	<MRC
177	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
178	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
179	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
180	Infant Formula, Powder, Amino Acid-based	all	<MRC
181	Infant Formula, Powder, Amino Acid-based	all	<MRC
182	Infant Formula, Powder, Soy-based	all	<MRC
183	Infant Formula, Powder, Cow Milk-based	all	<MRC
184	Infant Formula, Powder, Cow Milk-based	all	<MRC
185	Infant Formula, Powder, Cow Milk-based	all	<MRC
186	Infant Formula, Powder, Cow Milk-based	all	<MRC
187	Infant Formula, Powder, Cow Milk-based	all	<MRC
188	Infant Formula, Powder, Cow Milk-based	all	<MRC
189	Infant Formula, Powder, Cow Milk-based	all	<MRC
190	Infant Formula, Powder, Cow Milk-based	all	<MRC
191	Infant Formula, Powder, Soy-based	all	<MRC
196	Infant Formula, Powder, Amino Acid-based	all	<MRC
199	Infant Formula, Powder, Cow Milk-based	all	<MRC
200	Infant Formula, Powder, Cow Milk-based	all	<MRC
201	Infant Formula, Powder, Soy-based	all	<MRC
202	Infant Formula, Powder, Soy-based	all	<MRC
203	Infant Formula, Powder, Soy-based	all	<MRC
204	Infant Formula, Powder, Cow Milk-based	all	<MRC
205	Infant Formula, Powder, Cow Milk-based	all	<MRC
206	Infant Formula, Powder, Cow Milk-based	all	<MRC
207	Infant Formula, Powder, Cow Milk-based	all	<MRC
208	Infant Formula, Powder, Cow Milk-based	all	<MRC
209	Infant Formula, Powder, Soy-based	all	<MRC
210	Infant Formula, Powder, Cow Milk-based	all	<MRC
211	Infant Formula, Powder, Cow Milk-based	all	<MRC
212	Infant Formula, Powder, Cow Milk-based	all	<MRC
213	Infant Formula, Powder, Cow Milk-based	all	<MRC
214	Infant Formula, Powder, Cow Milk-based	all	<MRC
215	Infant Formula, Powder, Cow Milk-based	all	<MRC
216	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
217	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
218	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
219	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
220	Infant Formula, Concentrated Liquid, Cow Milk-based	all	<MRC
221	Infant Formula, Ready-to-Feed Liquid, Cow Milk-based	all	<MRC
222	Infant Formula, Powder, Cow Milk-based	all	<MRC
223	Infant Formula, Powder, Cow Milk-based	all	<MRC
224	Infant Formula, Powder, Cow Milk-based	all	<MRC
225	Infant Formula, Powder, Cow Milk-based	all	<MRC
226	Infant Formula, Powder, Cow Milk-based	all	<MRC
227	Infant Formula, Powder, Cow Milk-based	all	<MRC
228	Infant Formula, Powder, Cow Milk-based	all	<MRC
229	Infant Formula, Powder, Amino Acid-based	all	<MRC
230	Infant Formula, Powder, Amino Acid-based	all	<MRC

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a], [b]}
231	Infant Formula, Powder, Soy-based	all	<MRC
232	Infant Formula, Powder, Cow Milk-based	all	<MRC
234	Infant Formula, Powder, Cow Milk-based	all	<MRC
235	Infant Formula, Powder, Cow Milk-based	all	<MRC
236	Infant Formula, Powder, Cow Milk-based	all	<MRC
237	Infant Formula, Powder, Cow Milk-based	all	<MRC
238	Infant Formula, Powder, Amino Acid-based	all	<MRC
239	Infant Formula, Powder, Soy-based	all	<MRC
240	Infant Formula, Powder, Cow Milk-based	all	<MRC
241	Infant Formula, Powder, Amino Acid-based	all	<MRC
243	Infant Formula, Powder, Soy-based	all	<MRC
244	Infant Formula, Powder, Cow Milk-based	all	<MRC
245	Infant Formula, Powder, Soy-based	all	<MRC
246	Infant Formula, Powder, Cow Milk-based	all	<MRC
247	Infant Formula, Powder, Cow Milk-based	all	<MRC
248	Infant Formula, Powder, Cow Milk-based	all	<MRC
249	Infant Formula, Powder, Cow Milk-based	all	<MRC
250	Infant Formula, Powder, Soy-based	all	<MRC
251	Infant Formula, Powder, Cow Milk-based	all	<MRC
252	Infant Formula, Powder, Cow Milk-based	all	<MRC
253	Infant Formula, Powder, Cow Milk-based	all	<MRC
254	Infant Formula, Powder, Soy-based	all	<MRC
255	Infant Formula, Powder, Cow Milk-based	all	<MRC
256	Infant Formula, Powder, Cow Milk-based	all	<MRC
257	Infant Formula, Powder, Cow Milk-based	all	<MRC
263	Infant Formula, Powder, Cow Milk-based	all	<MRC
264	Infant Formula, Powder, Amino Acid-based	Malathion	0.20 ppb
265	Infant Formula, Powder, Soy-based	all	<MRC
266	Infant Formula, Powder, Cow Milk-based	all	<MRC
267	Infant Formula, Powder, Cow Milk-based	all	<MRC
268	Infant Formula, Powder, Cow Milk-based	all	<MRC
269	Infant Formula, Powder, Cow Milk-based	all	<MRC
270	Infant Formula, Powder, Cow Milk-based	all	<MRC
271	Infant Formula, Powder, Cow Milk-based	all	<MRC
272	Infant Formula, Powder, Cow Milk-based	all	<MRC
273	Infant Formula, Powder, Cow Milk-based	all	<MRC
274	Infant Formula, Powder, Cow Milk-based	all	<MRC
275	Infant Formula, Powder, Cow Milk-based	all	<MRC
276	Infant Formula, Powder, Cow Milk-based	all	<MRC
277	Infant Formula, Powder, Cow Milk-based	all	<MRC
280	Infant Formula, Powder, Soy-based	all	<MRC
281	Infant Formula, Powder, Cow Milk-based	all	<MRC
282	Infant Formula, Powder, Soy-based	all	<MRC
283	Infant Formula, Powder, Cow Milk-based	all	<MRC
284	Infant Formula, Powder, Cow Milk-based	all	<MRC
285	Infant Formula, Powder, Cow Milk-based	all	<MRC
286	Infant Formula, Powder, Cow Milk-based	all	<MRC
287	Infant Formula, Powder, Cow Milk-based	all	<MRC
288	Infant Formula, Powder, Cow Milk-based	all	<MRC
289	Infant Formula, Powder, Cow Milk-based	all	<MRC
290	Infant Formula, Powder, Cow Milk-based	all	<MRC
291	Infant Formula, Powder, Cow Milk-based	all	<MRC
292	Infant Formula, Powder, Cow Milk-based	all	<MRC
293	Infant Formula, Powder, Cow Milk-based	all	<MRC
294	Infant Formula, Powder, Cow Milk-based	all	<MRC
295	Infant Formula, Powder, Cow Milk-based	all	<MRC
296	Infant Formula, Powder, Cow Milk-based	all	<MRC

Sample Number	Simplified Product Label	Pesticide Name	Pesticide Concentration ^{[a], [b]}
297	Infant Formula, Powder, Cow Milk-based	all	<MRC
298	Infant Formula, Powder, Cow Milk-based	all	<MRC
299	Infant Formula, Powder, Cow Milk-based	all	<MRC
300	Infant Formula, Powder, Cow Milk-based	all	<MRC
301	Infant Formula, Powder, Cow Milk-based	all	<MRC
302	Infant Formula, Powder, Cow Milk-based	all	<MRC
303	Infant Formula, Powder, Cow Milk-based	all	<MRC
304	Infant Formula, Powder, Cow Milk-based	all	<MRC
305	Infant Formula, Powder, Cow Milk-based	all	<MRC
306	Infant Formula, Powder, Cow Milk-based	all	<MRC
307	Infant Formula, Powder, Cow Milk-based	all	<MRC
308	Infant Formula, Powder, Cow Milk-based	all	<MRC
309	Infant Formula, Powder, Cow Milk-based	all	<MRC
310	Infant Formula, Powder, Cow Milk-based	all	<MRC
311	Infant Formula, Powder, Cow Milk-based	all	<MRC
312	Infant Formula, Powder, Cow Milk-based	all	<MRC
313	Infant Formula, Powder, Cow Milk-based	all	<MRC
314	Infant Formula, Powder, Cow Milk-based	all	<MRC
315	Infant Formula, Powder, Cow Milk-based	all	<MRC
316	Infant Formula, Powder, Cow Milk-based	all	<MRC
317	Infant Formula, Powder, Cow Milk-based	all	<MRC
318	Infant Formula, Powder, Cow Milk-based	all	<MRC
319	Infant Formula, Powder, Cow Milk-based	all	<MRC
320	Infant Formula, Powder, Soy-based	all	<MRC
321	Infant Formula, Powder, Cow Milk-based	all	<MRC
322	Infant Formula, Powder, Cow Milk-based	all	<MRC
328	Infant Formula, Powder, Cow Milk-based	all	<MRC
329	Infant Formula, Powder, Cow Milk-based	all	<MRC
330	Infant Formula, Powder, Cow Milk-based	all	<MRC
331	Infant Formula, Powder, Cow Milk-based	all	<MRC
332	Infant Formula, Powder, Cow Milk-based	all	<MRC
336	Infant Formula, Powder, Cow Milk-based	all	<MRC
337	Infant Formula, Powder, Soy-based	all	<MRC
338	Infant Formula, Powder, Soy-based	all	<MRC
339	Infant Formula, Powder, Cow Milk-based	all	<MRC
340	Infant Formula, Powder, Soy-based	all	<MRC
341	Infant Formula, Powder, Cow Milk-based	all	<MRC
342	Infant Formula, Powder, Cow Milk-based	all	<MRC
343	Infant Formula, Powder, Soy-based	all	<MRC
344	Infant Formula, Powder, Soy-based	all	<MRC

Analytical Results for Pesticides in Infant Formula

The data in this table represent 312 samples of infant formulas tested for 318 pesticides in FY2023-2025 as part of a special survey.

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
2,6-DIPN	all	<MRC	<i>1</i>
Abamectin	all	<MRC	1
Acephate	all	<MRC	5
Acetamiprid	all	<MRC	1
Acetochlor	all	<MRC	1
Acibenzolar-S-methyl	all	<MRC	10
Alachlor	all	<MRC	5
Aldicarb	all	<MRC	1
Ametoctradin	all	<MRC	1
Ametryn	all	<MRC	1
Amicarbazone	all	<MRC	1
Amisulbrom	all	<MRC	1
Amitraz	all	<MRC	<i>1</i>
Atrazine	all	<MRC	1
Azamethiphos	all	<MRC	25
Azinphos-methyl	all	<MRC	1
Azoxystrobin	all	<MRC	1
Benalaxyl	all	<MRC	1
Bendiocarb	all	<MRC	1
Benfluralin	all	<MRC	1
Benthiavalicarb-isopropyl	all	<MRC	1
Benzovindiflupyr	all	<MRC	1
BHC	all	<MRC	1
Bicyclopyrone	all	<MRC	25
Bifenazate	all	<MRC	1
Bifenthrin	all	<MRC	<i>1</i>
Bitertanol	all	<MRC	1
Bixafen	all	<MRC	1
Boscalid	all	<MRC	1
Bromopropylate	all	<MRC	1
Bromuconazole	all	<MRC	1

[a] Pesticides are listed by their common or trade name. The analytical methods used for testing also detect some metabolites and isomers associated with the pesticides listed.

[b] Powder, Ready-to-Feed Liquids, and Concentrated Liquids were analyzed as sold. Results are reported as prepared for feeding to allow for comparisons among samples, where ppb=parts per billion (ug/kg). Calculations of these reported concentrations were based on label preparation instructions.

[c] Pesticide analyses were conducted using GC- and LC-tandem mass spectrometry. The Minimum Reporting Concentration (MRC) represents the lowest quantifiable concentration for each analyte, verified by fortification in infant formula powder, and ranges from 1 ug/kg to 25 ug/kg, with the exception of pesticides with MRC values in italics, which are limited to identifying whether the pesticide is present and do not provide a quantitative measurement. Reported concentrations in samples may be observed below the MRC values because MRC values are established for the product as sold, while the reported concentrations reflect the prepared for feeding form.

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
Bupirimate	all	<MRC	1
Buprofezin	all	<MRC	1
Butachlor	all	<MRC	1
Cadusafos	all	<MRC	1
Carbaryl	all	<MRC	1
Carbendazim	all	<MRC	1
Carbetamide	all	<MRC	1
Carbofuran	all	<MRC	1
Carbosulfan	all	<MRC	1
Carboxin	all	<MRC	1
Chlorantraniliprole	all	<MRC	1
Chlordane	all	<MRC	1
Chlorfenapyr	all	<MRC	1
Chlorfenvinphos	all	<MRC	1
Chlorfluazuron	all	<MRC	1
Chlorimuron-ethyl	all	<MRC	5
Chlorotoluron	all	<MRC	1
Chlorpropham	all	<MRC	1
Chlorpyrifos	Sample 12	0.25 ppb	1
Chlorpyrifos methyl	all	<MRC	1
Chromafenozide	all	<MRC	1
Clethodim	all	<MRC	5
Clofentezine	all	<MRC	1
Clothianidin	all	<MRC	1
Coumaphos	all	<MRC	1
Cyantraniliprole	all	<MRC	1
Cyazofamid	all	<MRC	10
Cycloate	all	<MRC	1
Cyflufenamid	all	<MRC	1
Cyflumetofen	all	<MRC	1
Cyfluthrin	all	<MRC	1
Cymoxanil	all	<MRC	1
Cypermethrin	all	<MRC	1
Cyproconazole	all	<MRC	1
Cyprodinil	all	<MRC	1
Cyromazine	all	<MRC	1
DCPA	all	<MRC	1
DDT	all	<MRC	1
DEF/Tribufos	all	<MRC	1
Deltamethrin	all	<MRC	5
Desmedipham	all	<MRC	1
Diazinon	all	<MRC	1
Dichlobenil	all	<MRC	1
Dichlorvos	all	<MRC	5
Dicloran	all	<MRC	1
Dicofol	all	<MRC	1
Dicrotophos	all	<MRC	1
Dieldrin	all	<MRC	1
Diethofencarb	all	<MRC	1
Difenoconazole	all	<MRC	1

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
Diflovidazin	all	<MRC	5
Diflubenzuron	all	<MRC	1
Dimethachlor	all	<MRC	1
Dimethoate	all	<MRC	1
Dimethomorph	all	<MRC	1
Dimoxystrobin	all	<MRC	1
Diniconazole	all	<MRC	1
Dinotefuran	all	<MRC	1
Dioxacarb	all	<MRC	1
Diphenylamine	all	<MRC	1
Dithianon	all	<MRC	1
Diuron	all	<MRC	1
Emamectin benzoate	all	<MRC	1
Endosulfan	all	<MRC	5
Endrin	all	<MRC	1
EPN	all	<MRC	1
Epoxiconazole	all	<MRC	1
Ethaboxam	all	<MRC	1
Ethiolate	all	<MRC	1
Ethion	all	<MRC	1
Ethiprole	all	<MRC	1
Ethirimol	all	<MRC	5
Ethofumesate	all	<MRC	1
Ethoprop	all	<MRC	1
Ethoxyquin	all	<MRC	1
Etofenprox	all	<MRC	1
Etoxazole	all	<MRC	1
Famoxadone	all	<MRC	1
Fenamidone	all	<MRC	1
Fenamiphos	all	<MRC	1
Fenarimol	all	<MRC	1
Fenazaquin	all	<MRC	1
Fenbuconazole	all	<MRC	1
Fenbutatin oxide	all	<MRC	1
Fenhexamid	all	<MRC	5
Fenitrothion	all	<MRC	1
Fenobucarb (BPMC)	all	<MRC	1
Fenoxycarb	all	<MRC	1
Fenpropathrin	all	<MRC	1
Fenpropidin	all	<MRC	1
Fenpropimorph	all	<MRC	1
Fenpyrazamine	all	<MRC	1
Fenpyroximate, e-	all	<MRC	1
Fenthion	all	<MRC	1
Fenuron	all	<MRC	1
Fenvalerate	all	<MRC	1
Ferimzone	all	<MRC	1
Fipronil	all	<MRC	1
Fonicamid	all	<MRC	1
Flucrypyrim	all	<MRC	1

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
Flubendiamide	all	<MRC	1
Flucycloxuron	all	<MRC	1
Flucythrinate	all	<MRC	1
Fludioxonil	all	<MRC	1
Fluensulfone	all	<MRC	1
Flufenoxuron	all	<MRC	1
Flumetsulam	all	<MRC	10
Flumioxazin	all	<MRC	1
Fluopicolide	all	<MRC	1
Fluopyram	all	<MRC	1
Fluoxastrobin	all	<MRC	1
Flupyradifurone	all	<MRC	1
Fluquinconazole	all	<MRC	1
Fluridone	all	<MRC	1
Flusilazole	all	<MRC	1
Flutolanil	all	<MRC	1
Flutriafol	all	<MRC	1
Fluvalinate	all	<MRC	1
Fluxapyroxad	all	<MRC	1
Fomesafen	all	<MRC	1
Forchlorfenuron	all	<MRC	1
Formetanate	all	<MRC	1
Fosthiazate	all	<MRC	1
Fuberidazole	all	<MRC	1
Glufosinate	all	<MRC	10
Glyphosate	all	<MRC	10
Halofenozide	all	<MRC	1
Heptachlor	all	<MRC	1
Hexaconazole	all	<MRC	1
Hexaflumuron	all	<MRC	1
Hexazinone	all	<MRC	1
Hexythiazox	all	<MRC	1
IBP	all	<MRC	1
Imazalil	all	<MRC	1
Imidacloprid	all	<MRC	1
Indaziflam	all	<MRC	1
Indoxacarb	all	<MRC	1
Iprodione	all	<MRC	1
Iprovalicarb	all	<MRC	1
Isocarbofos	all	<MRC	1
Isofetamid	all	<MRC	1
Isoprocarb	all	<MRC	1
Isoprothiolane	all	<MRC	1
Isopyrazam	all	<MRC	1
Isotianil	all	<MRC	25
Ivermectin	all	<MRC	1
Karbutilate	all	<MRC	1
Kresoxim-methyl	all	<MRC	1
Lambda-cyhalothrin	all	<MRC	1
Lindane	all	<MRC	1

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
Linuron	all	<MRC	1
Lufenuron	all	<MRC	1
Malathion	Sample 264	0.20 ppb	1
Mandestrobin	all	<MRC	1
Mandipropamid	all	<MRC	1
Mepanipyrim	all	<MRC	1
Mepronil	all	<MRC	1
Metaflumizone	all	<MRC	1
Metalaxyl	all	<MRC	1
Metconazole	all	<MRC	1
Methamidophos	all	<MRC	1
Methidathion	all	<MRC	1
Methiocarb	all	<MRC	1
Methomyl	all	<MRC	1
Methoprene	all	<MRC	10
Methoxychlor	all	<MRC	1
Methoxyfenozide	all	<MRC	1
Metolachlor	all	<MRC	1
Metominostrobin	all	<MRC	1
Metoxuron	all	<MRC	1
Metrafenone	all	<MRC	1
Metribuzin	all	<MRC	1
Metsulfuron methyl	all	<MRC	5
Mevinphos	all	<MRC	1
MGK 264	all	<MRC	1
Monocrotophos	all	<MRC	1
Moxidectin	all	<MRC	1
Myclobutanil	all	<MRC	1
Napropamide	all	<MRC	1
Nitenpyram	all	<MRC	1
Novaluron	all	<MRC	1
Noviflumuron	all	<MRC	1
Nuarimol	all	<MRC	1
Omethoate	all	<MRC	5
Orysastrobin	all	<MRC	1
Oxadiazon	all	<MRC	1
Oxadixyl	all	<MRC	1
Oxamyl	all	<MRC	1
Oxathiapiprolin	all	<MRC	1
Oxyfluorfen	all	<MRC	1
Paclbutrazol	all	<MRC	1
Parathion	all	<MRC	1
Parathion methyl	all	<MRC	1
Penconazole	all	<MRC	1
Pencycuron	all	<MRC	1
Pendimethalin	all	<MRC	1
Penflufen	all	<MRC	1
Penthiopyrad	all	<MRC	1
Permethrin	all	<MRC	1
Phenmedipham	all	<MRC	1

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
Phenthoate	all	<MRC	1
Phenylphenol, o-	all	<MRC	1
Phorate	all	<MRC	1
Phosalone	all	<MRC	10
Phosmet	all	<MRC	1
Phoxim	all	<MRC	1
Picoxystrobin	all	<MRC	1
Piperonyl butoxide	Sample 100	0.20 ppb	1
Pirimicarb	all	<MRC	1
Pirimiphos methyl	all	<MRC	1
Prochloraz	all	<MRC	1
Procymidone	all	<MRC	1
Profenofos	all	<MRC	1
Prometryn	all	<MRC	1
Pronamide	all	<MRC	1
Propamocarb	all	<MRC	1
Propanil	all	<MRC	1
Propargite	all	<MRC	1
Propiconazole	all	<MRC	1
Propoxur	all	<MRC	1
Propoxycarbazone	all	<MRC	1
Proquinazid	all	<MRC	25
Prothiofos	all	<MRC	1
Pymetrozine	all	<MRC	1
Pyraclostrobin	all	<MRC	1
Pyribencarb	all	<MRC	1
Pyridaben	all	<MRC	1
Pyrifenox	all	<MRC	1
Pyrifluquinazon	all	<MRC	5
Pyrimethanil	all	<MRC	1
Pyriofenone	all	<MRC	1
Pyriproxyfen	all	<MRC	1
Pyroquilon	all	<MRC	1
Pyroxasulfone	all	<MRC	1
Quinalphos	all	<MRC	1
Quinoxifen	all	<MRC	5
Quintozene	all	<MRC	1
Resmethrin	all	<MRC	1
Rotenone	all	<MRC	1
Saflufenacil	all	<MRC	1
Sedaxane	all	<MRC	1
Simazine	all	<MRC	1
Spinetoram	all	<MRC	1
Spinosad	all	<MRC	5
Spiromesifen	all	<MRC	1
Spirotetramat	all	<MRC	5
Spiroxamine	all	<MRC	1
Sulfoxaflor	all	<MRC	1
Tebuconazole	all	<MRC	1
Tebufenozide	all	<MRC	1

Pesticide ^[a]	Sample Number	Pesticide Concentration (ppb) ^[b]	MRC (ppb) ^[c]
Tebufenpyrad	all	<MRC	1
Tecnazene	all	<MRC	1
Teflubenzuron	all	<MRC	1
Temephos	all	<MRC	1
Tepraloxydim	all	<MRC	5
Terbuthylazine	all	<MRC	1
Tetrachlorvinphos (Gardona)	all	<MRC	1
Tetraconazole	all	<MRC	1
Tetradifon	all	<MRC	1
Tetramethrin	all	<MRC	1
Thiabendazole	all	<MRC	1
Thiacloprid	all	<MRC	1
Thiamethoxam	all	<MRC	1
Thidiazuron	all	<MRC	1
Thifluzamide	all	<MRC	5
Thiobencarb	all	<MRC	1
Thiodicarb	all	<MRC	1
Thiophanate-methyl	all	<MRC	1
THPI	all	<MRC	1
Tolclofos methyl	all	<MRC	1
Tolfenpyrad	all	<MRC	1
Tolpyralate	all	<MRC	1
Tolyfluanid	all	<MRC	1
Triadimefon	all	<MRC	1
Tri-allate	all	<MRC	1
Triazophos	all	<MRC	1
Trichlorfon	all	<MRC	5
Tricyclazole	all	<MRC	1
Tridemorph	all	<MRC	1
Trifloxystrobin	all	<MRC	1
Triflumizole	all	<MRC	1
Triflumuron	all	<MRC	1
Trifluralin	all	<MRC	1
Triforine	all	<MRC	1
Valifenalate	all	<MRC	1
Vinclozolin	all	<MRC	1
Zoxamide	all	<MRC	1