

National Referral Laboratory
ICAR-National Research Centre for Grapes, Manjri farm, Pune 412307

TARGET LIST OF ANALYTES (PT ID: NRL / PT-FV /2023 / Apple-2)

SR.NO.	NAME OF CHEMICALS/PESTICIDES	PT RANGE (MG KG ⁻¹)
1.	1-Naphthylacetamide	0.02-0.250
2.	1-Naphthylacetic acid	0.02-0.250
3.	2,4-D	0.02-0.250
4.	4-Bromo-2-chlorophenol	0.02-0.250
5.	4-Chloro-3-methylphenol	0.02-0.250
6.	6-Benzyl adenine	0.02-0.250
7.	Abamectin	0.02-0.250
8.	Acephate	0.02-0.250
9.	Acetamiprid	0.02-0.250
10.	Afidopyropen	0.02-0.250
11.	Alachlor	0.02-0.250
12.	Aldrin (only parent Aldrin)	0.02-0.250
13.	Dieldrin	0.02-0.250
14.	Allethrin and Bioallethrin	0.02-0.250
15.	Ametoctradin	0.02-0.250
16.	Ametryn	0.02-0.250
17.	Amisulbrom	0.02-0.250
18.	Anilofos	0.02-0.250
19.	Atrazine	0.02-0.250
20.	Azadirachtin	0.02-0.250
21.	Azimsulfuron	0.02-0.250
22.	Azoxystrobin	0.02-0.250
23.	Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)	0.02-0.250
24.	Bendiocarb	0.02-0.250
25.	Benomyl (see carbendazim)	0.02-0.250
26.	Bensulfuron-methyl	0.02-0.250
27.	Bifenazate (only parent Bifenazate)	0.02-0.250
28.	Bifenazate-diazene	0.02-0.250
29.	Bifenthrin (sum of isomers)	0.02-0.250
30.	Bispyribac	0.02-0.250
31.	Bitertanol (sum of isomers)	0.02-0.250
32.	Boscalid	0.02-0.250
33.	Bupirimate	0.02-0.250
34.	Buprofezin	0.02-0.250
35.	Butachlor	0.02-0.250
36.	Captafol	0.02-0.250
37.	Captan (only parent Captan)	0.02-0.250
38.	Tetrahydrophthalimide	0.02-0.250
39.	Carbaryl	0.02-0.250
40.	Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)	0.02-0.250
41.	Carbofuran (only parent Carbofuran)	0.02-0.250
42.	Carbosulfan	0.02-0.250
43.	Furathiocarb	0.02-0.250

SR.NO.	NAME OF CHEMICALS/PESTICIDES	PT RANGE (MG KG ⁻¹)
44.	Benfuracarb	0.02-0.250
45.	3-hydroxy carbofuran	0.02-0.250
46.	Carboxin (only parent Carboxin)	0.02-0.250
47.	Carboxin sulfoxide	0.02-0.250
48.	Oxycarboxin (carboxin sulfone)	0.02-0.250
49.	Carfentrazone-ethyl (sum of carfentrazone-ethyl and carfentrazone, expressed as carfentrazone-ethyl)	0.02-0.250
50.	Carpropamid	0.02-0.250
51.	Cartap hydrochloride	0.02-0.250
52.	Chlorantraniliprole	0.02-0.250
53.	Chlordane (<i>cis</i>)	0.02-0.250
54.	Chlordane (<i>trans</i>)	0.02-0.250
55.	Chlorfenapyr	0.02-0.250
56.	Chlorfenvinphos	0.02-0.250
57.	Chlorfluazuron	0.02-0.250
58.	Chlorimuron-ethyl	0.02-0.250
59.	Chlormequat (CCC)	0.02-0.250
60.	Chlorothalonil	0.02-0.250
61.	Chlorpropham	0.02-0.250
62.	Chlorpyrifos	0.02-0.250
63.	Chlorpyrifos-methyl	0.02-0.250
64.	Chromafenozide	0.02-0.250
65.	Cinmethylen	0.02-0.250
66.	Clethodim (only parent Clethodim)	0.02-0.250
67.	Sethoxydim	0.02-0.250
68.	Clofentezine	0.02-0.250
69.	Clomazone	0.02-0.250
70.	Clothianidin	0.02-0.250
71.	Coumachlor	0.02-0.250
72.	Coumatetralyl	0.02-0.250
73.	Cyantraniliprole	0.02-0.250
74.	Cyazofamid	0.02-0.250
75.	Cyenopyrofen	0.02-0.250
76.	Cyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid)	0.02-0.250
77.	Cyflumetofen	0.02-0.250
78.	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)	0.02-0.250
79.	Cyhalofop-butyl	0.02-0.250
80.	Cymoxanil	0.02-0.250
81.	Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers))	0.02-0.250
82.	Cyproconazole	0.02-0.250
83.	p,p'-DDT	0.02-0.250
84.	o,p'-DDT	0.02-0.250
85.	p,p'-DDE	0.02-0.250

SR.NO.	NAME OF CHEMICALS/PESTICIDES	PT RANGE (MG KG ⁻¹)
86.	p,p'-TDE (DDD)	0.02-0.250
87.	Deltamethrin (cis-deltamethrin)	0.02-0.250
88.	Diafenthiuron	0.02-0.250
89.	Diazinon	0.02-0.250
90.	Dichlorvos	0.02-0.250
91.	Diclofop (sum diclofop-methyl and diclofop acid expressed as diclofop-methyl)	0.02-0.250
92.	Diclosulam	0.02-0.250
93.	Dicofol (p,p)	0.02-0.250
94.	Dicofol (o,p)	0.02-0.250
95.	Dieldrin (only Dieldrin)	0.02-0.250
96.	Difenoconazole	0.02-0.250
97.	Diffubenzuron	0.02-0.250
98.	Dimethoate	0.02-0.250
99.	Dimethomorph (sum of isomers)	0.02-0.250
100.	Dinocap	0.02-0.250
101.	Dinotefuran	0.02-0.250
102.	Diquat	0.02-0.250
103.	Dithianon	0.02-0.250
104.	Dithiocarbamates (dithiocarbamates expressed as CS ₂ , including maneb, mancozeb, metiram, thiram and ziram)	0.02-0.250
105.	Diuron	0.02-0.250
106.	Dodine	0.02-0.250
107.	Edifenphos	0.02-0.250
108.	Emamectin benzoate	0.02-0.250
109.	Endosulphan <i>alpha</i>	0.02-0.250
110.	Endosulphan <i>beta</i>	0.02-0.250
111.	Endosulphan sulphate	0.02-0.250
112.	Endrin	0.02-0.250
113.	Epoxiconazole	0.02-0.250
114.	Ethephon	0.02-0.250
115.	Ethion	0.02-0.250
116.	Ethiprole	0.02-0.250
117.	Ethofenprox (Etofenprox)	0.02-0.250
118.	Ethoxysulfuron	0.02-0.250
119.	Etoxazole	0.02-0.250
120.	Etrimfos	0.02-0.250
121.	Famoxadone	0.02-0.250
122.	Fenamidone	0.02-0.250
123.	Fenarimol	0.02-0.250
124.	Fenazaquin	0.02-0.250
125.	Fenhexamid	0.02-0.250
126.	Fenitrothion	0.02-0.250
127.	Fenobucarb	0.02-0.250
128.	Fenoxaprop-p	0.02-0.250
129.	Fenpropathrin	0.02-0.250
130.	Fenpyroximate	0.02-0.250
131.	Fenthion (only parent Fenthion)	0.02-0.250

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132.	Fenthion sulfoxides	0.02-0.250
133.	Fenthion sulfone	0.02-0.250
134.	Fenvalerate	0.02-0.250
135.	Fipronil (only parent Fipronil)	0.02-0.250
136.	Fipronil sulfone(MB46136)	0.02-0.250
137.	Flonicamid (only parent Flonicamid)	0.02-0.250
138.	TNFG	0.02-0.250
139.	TNFA	0.02-0.250
140.	Fluazifop-P (only parent Fluazifop-P)	0.02-0.250
141.	Fluazifop-P-butyl	0.02-0.250
142.	Flubendiamide	0.02-0.250
143.	Flucetosulfuron	0.02-0.250
144.	Fluchloralin	0.02-0.250
145.	Fluensulfone	0.02-0.250
146.	Flufenacet	0.02-0.250
147.	Flufenoxuron	0.02-0.250
148.	Flufenzin	0.02-0.250
149.	Flumioxazine	0.02-0.250
150.	Fluopicolide	0.02-0.250
151.	Fluopyram	0.02-0.250
152.	Flupyradifurone	0.02-0.250
153.	Flusilazole	0.02-0.250
154.	Fluthiacet-methyl	0.02-0.250
155.	Fluxapyroxad	0.02-0.250
156.	Fomesafen	0.02-0.250
157.	Forchlorfenuron (CPPU)	0.02-0.250
158.	Fosetyl-Al	0.02-0.250
159.	Halosulfuron methyl	0.02-0.250
160.	Haloxyfop	0.02-0.250
161.	Heptachlor (only parent Heptachlor)	0.02-0.250
162.	Heptachlor epoxide	0.02-0.250
163.	Hexachlorocyclohexane (HCH), alpha-isomer	0.02-0.250
164.	Hexachlorocyclohexane (HCH), beta-isomer	0.02-0.250
165.	Hexaconazole	0.02-0.250
166.	Hexazinone	0.02-0.250
167.	Hexythiazox	0.02-0.250
168.	Imazamox	0.02-0.250
169.	Imazethapyr	0.02-0.250
170.	Imidacloprid	0.02-0.250
171.	Indaziflam	0.02-0.250
172.	Indoxacarb (sum of indoxacarb and its R enantiomer)	0.02-0.250
173.	Iodosulfuron-methyl	0.02-0.250
174.	Iprobenphos	0.02-0.250
175.	Iprodione	0.02-0.250
176.	Iprovalicarb	0.02-0.250
177.	Isoprothiolane	0.02-0.250

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178.	Isoproturon	0.02-0.250
179.	Kresoxim methyl	0.02-0.250
180.	Lambda-cyhalothrin	0.02-0.250
181.	Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))	0.02-0.250
182.	Linuron	0.02-0.250
183.	Lufenuron	0.02-0.250
184.	Malathion (only parent Malathion)	0.02-0.250
185.	Malaoxon	0.02-0.250
186.	Mandipropamid	0.02-0.250
187.	Matrine (only parent Matrine)	0.02-0.250
188.	Oxymatrine	0.02-0.250
189.	Mepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)	0.02-0.250
190.	Meptyldinocap	0.02-0.250
191.	Metaflumizone (sum of E- and Z-isomers)	0.02-0.250
192.	Metalaxyl (only parent Metalaxyl)	0.02-0.250
193.	Metalaxyl-M	0.02-0.250
194.	Metamifop	0.02-0.250
195.	Metamitron	0.02-0.250
196.	Methabenzthiazuron	0.02-0.250
197.	Methamidophos	0.02-0.250
198.	Methomyl	0.02-0.250
199.	Methoxyfenazide	0.02-0.250
200.	S-Metolachlor	0.02-0.250
201.	Metrafenone	0.02-0.250
202.	Metribuzin	0.02-0.250
203.	Monocrotophos	0.02-0.250
204.	Myclobutanil	0.02-0.250
205.	Nereistoxin	0.02-0.250
206.	Nitenpyram	0.02-0.250
207.	Novaluron	0.02-0.250
208.	Omethoate	0.02-0.250
209.	Orthosulfamuron	0.02-0.250
210.	Oxadiargyl	0.02-0.250
211.	Oxadiazon	0.02-0.250
212.	Oxathiapiprolin	0.02-0.250
213.	Oxycarboxin	0.02-0.250
214.	Oxydemeton- methyl	0.02-0.250
215.	Oxyfluorfen	0.02-0.250
216.	Paclobutrazol	0.02-0.250
217.	Parathion – methyl (only parent Parathion – methyl)	0.02-0.250
218.	Paraoxon- methyl	0.02-0.250
219.	Parathion ethyl	0.02-0.250
220.	Penconazole	0.02-0.250
221.	Pencycuron	0.02-0.250
222.	Pendimethalin	0.02-0.250

SR.NO.	NAME OF CHEMICALS/PESTICIDES	PT RANGE (MG KG ⁻¹)
223.	Penoxsulam	0.02-0.250
224.	Permethrin (sum of isomers)	0.02-0.250
225.	Phenthoate	0.02-0.250
226.	Phorate (only parent Phorate)	0.02-0.250
227.	Phorate sulfoxide	0.02-0.250
228.	Phorate sulfone	0.02-0.250
229.	Phosalone	0.02-0.250
230.	Phosphamidon	0.02-0.250
231.	Picoxystrobin	0.02-0.250
232.	Pinoxaden	0.02-0.250
233.	Pirimiphos-methyl	0.02-0.250
234.	Pretilachlor	0.02-0.250
235.	Profenophos	0.02-0.250
236.	Propamocarb	0.02-0.250
237.	Propanil	0.02-0.250
238.	Propargite	0.02-0.250
239.	Propetamphos	0.02-0.250
240.	Propiconazole	0.02-0.250
241.	Propoxur	0.02-0.250
242.	Pymetrozine	0.02-0.250
243.	Pyraclostrobin	0.02-0.250
244.	Pyrazosulfuron-ethyl	0.02-0.250
245.	Pyridaben	0.02-0.250
246.	Pyridalyl	0.02-0.250
247.	Pyriproxyfen	0.02-0.250
248.	Pyrithiobac-sodium	0.02-0.250
249.	Quinalphos	0.02-0.250
250.	Simazine	0.02-0.250
251.	Spinetoram	0.02-0.250
252.	Spinosyn A	0.02-0.250
253.	Spinosyn D	0.02-0.250
254.	Spirodiclofen	0.02-0.250
255.	Spiromesifen	0.02-0.250
256.	Spirotetramat (only parent spirotetramat)	0.02-0.250
257.	Spirotetramat-enol	0.02-0.250
258.	Sulfentrazone	0.02-0.250
259.	Sulfosulfuron	0.02-0.250
260.	Sulfoxaflor (sum of isomers)	0.02-0.250
261.	tau-Fluvalinate	0.02-0.250
262.	Tebuconazole	0.02-0.250
263.	Tembotrione	0.02-0.250
264.	Temephos	0.02-0.250
265.	Tetraconazole	0.02-0.250
266.	Thiabendazole	0.02-0.250
267.	Thiacloprid	0.02-0.250
268.	Thiamethoxam	0.02-0.250
269.	Thifluzamide	0.02-0.250
270.	Thiobencarb	0.02-0.250
271.	Thiocyclam	0.02-0.250

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272.	Thiodicarb	0.02-0.250
273.	Thiometon	0.02-0.250
274.	Thiophanate-methyl	0.02-0.250
275.	Tolfenpyrad	0.02-0.250
276.	Topramezone	0.02-0.250
277.	Transfluthrin	0.02-0.250
278.	Triadimefon	0.02-0.250
279.	Triadimenol	0.02-0.250
280.	Triafamone	0.02-0.250
281.	Tri-allate	0.02-0.250
282.	Triasulfuron	0.02-0.250
283.	Triazophos	0.02-0.250
284.	Trichlorfon	0.02-0.250
285.	Tricyclazole	0.02-0.250
286.	Tridemorph	0.02-0.250
287.	Trifloxystrobin	0.02-0.250
288.	Triflumezopyrim	0.02-0.250
289.	Trifluralin	0.02-0.250
290.	Validamycin	0.02-0.250

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