

List of agrochemicals to be monitored for the grape season 2019-2020

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
1.	1-Naphthylacetamide and 1-naphthylacetic acid (sum of 1-naphthylacetamide and 1-naphthylacetic acid and its salts, expressed as 1-naphthylacetic acid)	0.06*
2.	2,4-D (sum of 2,4-D and its esters and its conjugates, expressed as 2,4-D)	0.10
3.	4-Chloro-3-methylphenol	0.01*
4.	4-bromo-2-chlorophenol (metabolite of Profenophos)	0.01*
5.	4-CPA (4-Chlorophenoxy acetic acid)	0.01*
6.	6-Benzyl adenine	0.01*
7.	Abamectin (sum of avermectin B1a, avermectinB1b and delta-8,9 isomer of avermectin B1a)	0.01*
8.	Acephate	0.01*
9.	Acetamiprid (R)	0.50
10.	Afidopyropen	0.01*
11.	Alachlor	0.01*
12.	Aldrin (Aldrin and dieldrin combined expressed as dieldrin)	0.01*
13.	Allethrin and Bioallethrin	0.01*
14.	Ametoctradin	6.00
15.	Atrazine	0.05*
16.	Azadirachtin	1.00
17.	Azoxystrobin	3.00
18.	Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)	0.30
19.	Bendiocarb	0.01*
20.	Benomyl (see carbendazim)	0.30
21.	Bifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate) (F)	0.70
22.	Bifenthrin (sum of isomers) (F)	0.30
23.	Bitertanol (sum of isomers) (F)	0.01*
24.	Boscalid (F) (R) (A)	5.00
25.	Buprofezin (F)	0.01*
26.	Butachlor	0.01*
27.	Cadmium	0.05#
28.	Captafol	0.02*
29.	Captan (Sum of captan and THPI, expressed as captan) (R) (A)	0.03*
30.	Carbaryl (F)	0.01*
31.	Carbendazim (including Benomyl)	0.30
32.	Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran) (R)	0.002*

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33.	Carboxin	0.03*
34.	Cartap hydrochloride	0.01*
35.	Chlorantraniliprole	1.00
36.	Chlordane (cis & trans)	0.01*
37.	Chlorfenapyr	0.01*
38.	Chlorfenvinphos	0.01*
39.	Chlorfluazuron	0.01*
40.	Chlormequat (CCC) (sum of chlormequat and its salts, expressed as chlormequat-chloride)	0.05
41.	Chlorothalonil	3.00
42.	Chlorpropham	0.01*
43.	Chlorpyrifos	0.01*
44.	Chlorpyrifos methyl	1.00
45.	Clothianidin	0.70
46.	Clofentezine (R)	0.02*
47.	Cyantraniliprole	1.50
48.	Cyazofamid	2.00
49.	Cyflumetofen	0.60
50.	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)	0.30
51.	Cymoxanil	0.30
52.	Cypermethrin (including other mixtures of constituent isomers sum of isomers)	0.50
53.	Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam)	0.02*
54.	DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)	0.05*
55.	Deltamethrin (cis-deltamethrin) (F)	0.20
56.	Diafenthiuron	0.01*
57.	Diazinon	0.01*
58.	Dichlorvos	0.01*
59.	Dicofol (sum of p,p' and o,p' isomers)	0.02*
60.	Dieldrin (see Aldrin)	0.01*
61.	Difenoconazole	3.00
62.	Diflubenzuron	0.01*
63.	Dimethoate	0.01*
64.	Dimethomorph (sum of isomers)	3.00
65.	Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap) (F)	0.02*
66.	Dinotefuran	0.90
67.	Diquat	0.01*
68.	Dithianon	3.00
69.	Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb and Ziram collectively estimated as CS2)	5.00
70.	Diuron	0.01*

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71.	Dodine	0.01*
72.	Edifenphos	0.01*
73.	Emamectin benzoate B1a, expressed as emamectin	0.05
74.	Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulphan sulphate expressed as endosulphan)	0.05*
75.	Endrin	0.01*
76.	Epoxiconazole	0.05*
77.	Ethephon	1.00
78.	Ethion	0.01*
79.	Ethiprole	0.01*
80.	Ethofenprox (Etofenprox)	4.00
81.	Etoxazole	0.50
82.	Etrimfos	0.01*
83.	Famoxadone	2.00
84.	Fenamidone	0.60
85.	Fenarimol	0.30
86.	Fenazaquin	0.20
87.	Fenhexamid (F)	15.00
88.	Fenitrothion	0.01*
89.	Fenobucarb	0.01*
90.	Fenpropathrin	0.01*
91.	Fenpyroximate (A) (F) (R)	0.30
92.	Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent)	0.01*
93.	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R)	0.30
94.	Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)	0.005*
95.	Flonicamid (sum of flonicamid, TNFG and TNFA expressed as flonicamid) (R)	0.03*
96.	Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)	0.01*
97.	Flubendiamide	2.00
98.	Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent)	0.05*
99.	Flufenoxuron	1.00
100.	Flufenzin	0.02*
101.	Fluopicolide	2.00
102.	Fluopyram	1.50
103.	Flusilazole	0.01*
104.	Flupyradifurone	0.80
105.	Fluxapyroxad	3.00
106.	Forchlorfenuron (CPPU)	0.01*
107.	Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl)	100

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
108.	Glufosinate-ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents)	0.15
109.	Glyphosate	0.50
110.	Hexachlorocyclohexane (HCH), alpha-isomer (F)	0.01*
111.	Hexachlorocyclohexane (HCH), beta-isomer (F)	0.01*
112.	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)	0.01*
113.	Hexaconazole	0.01*
114.	Hexythiazox	1.00
115.	Homobrassinolide	0.01*†
116.	Hydrogen cyanamide (Cyanamide including salts expressed as cyanamide)	0.01*
117.	Imidacloprid	1.00
118.	Indoxacarb (sum of indoxacarb and its R enantiomer) (F)	2.00
119.	Iodosulfuron-methyl (sum of iodosulfuron-methyl and its salts, expressed as iodosulfuron-methyl)	0.01*
120.	Iprobenphos	0.01*
121.	Iprodione	0.01*
122.	Iprovalicarb	2.00
123.	Isoprothiolane	0.01*
124.	Isoproturon	0.01*
125.	Kasugamycin	0.01*
126.	Kresoxim methyl	1.00
127.	Lambda-cyhalothrin	0.08
128.	Lead	0.10
129.	Lindane (Gamma-isomer of hexachlorocyclohexane (HCH)) (F)	0.01*
130.	Linuron	0.01*
131.	Lufenuron	0.01*
132.	Malathion (sum of malathion and malaoxon expressed as malathion)	0.02*
133.	Mandipropamid	2.00
134.	Mepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)	0.02*
135.	Meptyldinocap (sum of 2,4 DNOPC and 2,4 DNOP expressed as meptyldinocap)	1.00
136.	Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers))	2.00
137.	Methamidophos	0.01*
138.	Methomyl	0.01*
139.	Metolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))	0.05*
140.	Metrafenone	7.00
141.	Metribuzin	0.10*
142.	Milbemectin (sum of milbemycin A4 and milbemycin A3,	0.02*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
	expressed as milbemectin)	
143.	Monocrotophos	0.01*
144.	Myclobutanil	1.00
145.	Nitenpyram	0.01*
146.	Nereistoxin	0.01*
147.	Novaluron	0.01*
148.	Omethoate	0.01*
149.	Oxadiazon	0.05*
150.	Oxycarboxin	0.01*
151.	Oxydemeton- methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl)	0.01*
152.	Oxyfluorfen	0.10
153.	Paclobutrazol	0.01*
154.	Paraquat	0.02*
155.	Parathion methyl (sum of Parathion methyl and paraoxon methyl expressed as Parathion methyl)	0.01*
156.	Parathion ethyl	0.05*
157.	Penconazole	0.50
158.	Pencycuron	0.05*
159.	Pendimethalin	0.05*
160.	Permethrin (sum of isomers)	0.05*
161.	Phenthoate	0.01*
162.	Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)	0.01*
163.	Phosalone	0.01*
164.	Phosphamidon	0.01*
165.	Picoxystrobin	0.01*
166.	Pirimiphos-methyl	0.01*
167.	Profenophos	0.01*
168.	Propamocarb (sum of propamocarb and its salt expressed as propamocarb)	0.01*
169.	Propanil	0.01*
170.	Propargite	0.01*
171.	Propetamphos	0.01*
172.	Propiconazole (sum of isomers) (F)	0.30
173.	Propoxur	0.05*
174.	Pymetrozine	0.02*
175.	Pyraclostrobin	1.00
176.	Pyridaben	0.01*
177.	Pyriproxyfen	0.05*
178.	Quinalphos	0.01*
179.	Simazine	0.20
180.	Spinetoram	0.50
181.	Spinosad (sum of Spinosyn A+D)	0.50

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
182.	Spirodiclofen	2.00
183.	Spiromesifen	0.02*
184.	Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramat (R)	2.00
185.	Sulfoxaflor (sum of isomers)	2.00
186.	<i>tau</i> -Fluvalinate	1.00
187.	Tebuconazole	0.50
188.	Temephos	0.01*
189.	Tetraconazole	0.50
190.	Thiabendazole	0.01*
191.	Thiacloprid	0.01*
192.	Thiamethoxam	0.40
193.	Thiobencarb (4-chlorobenzyl methyl sulfone) (A)	0.01*
194.	Thiodicarb	0.01*
195.	Thiometon	0.01*
196.	Thiocyclam	0.01*
197.	Thiophanate-methyl	0.10*
198.	Tolfenpyrad	0.01*
199.	Transfluthrin	0.01*
200.	Triadimefon	0.01*
201.	Triadimenol (any ratio of constituent isomers)	0.30
202.	Triazophos	0.01*
203.	Trichlorfon	0.01*
204.	Tricyclazole	0.01*
205.	Tridemorph	0.01*
206.	Trifloxystrobin	3.00
207.	Trifluralin	0.01*
208.	Uracil	1.00†

* EU-MRL set at LOQ (mg/kg) as per

http://ec.europa.eu/sanco_pesticides/public/index.cfm?event=substance.selection

† These are natural products. EU-MRL does not exist for these chemicals. Hence, their MRL is set at the LOQ of the method developed and validated at the National Referral Laboratory of the ICAR-NRC for Grapes.

Reference: Commission Regulation (EC) No 1881/2006 of 19th December 2006.