

**List of agrochemicals to be monitored for the grape season 2016-2017**

<b>Sr. No.</b>	<b>Chemicals</b>	<b>Harmonized EU-MRL (mg/kg )</b>
1.	1-Naphthylacetamide and 1-naphthylacetic acid (sum of 1-naphthylacetamide and 1-naphthylacetic acid and its salts, expressed as 1-naphthylacetic acid)	0.05*\$
2.	2,4-D (sum of 2,4-D and its esters expressed as 2,4-D)	0.1
3.	4-bromo-2-chlorophenol (metabolite of Profenophos)	0.01*
4.	4- CPA (4 Chlorophenoxy acetic acid)	0.01*
5.	6-Benzyl adenine	0.01*
6.	Abamectin (sum of avermectin B1a, avermectinB1b and delta-8,9 isomer of avermectin B1a)	0.01*
7.	Acephate	0.01*
8.	Acetamiprid	0.50
9.	Alachlor	0.01*
10.	Aldrin (Aldrin and dieldrin combined expressed as dieldrin)	0.01*
11.	Allethrin and Bioallethrin	0.01*
12.	Ametoctradin	6.00
13.	Atrazine	0.05*
14.	Azadirachtin	1.00
15.	Azoxystrobin	2.00
16.	Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)	0.30
17.	Bendiocarb	0.01*
18.	Benomyl (see carbendazim)	0.30
19.	Bifenazate	0.7
20.	Bifenthrin	0.20
21.	Bitertanol	0.01*
22.	Buprofezin	1.00
23.	Butachlor	0.01*
24.	Cadmium	0.05#
25.	Captafol	0.02*
26.	Captan	0.03*
27.	Carbaryl	0.01*
28.	Carbendazim (including Benomyl)	0.30
29.	Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran) (R)	0.002*
30.	Carboxin	0.05*
31.	Cartap hydrochloride	0.01*
32.	Chlorantraniliprole	1.00
33.	Chlordane (cis & trans)	0.01*

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34.	Chlorfenapyr	0.01*
35.	Chlorfenvinphos	0.01*
36.	Chlormequat (CCC)	0.05*
37.	Chlorothalonil	3.00
38.	Chlorpyrifos	0.01*
39.	Chlorpyrifos methyl	0.20
40.	Clothianidin	0.70
41.	Cyantranilprole	0.01*
42.	Cyazofamid	2.0
43.	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)	0.30
44.	Cymoxanil	0.20
45.	Cypermethrin (including other mixtures of constituent isomers sum of isomers)	0.50
46.	Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam)	0.02*
47.	DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)	0.05*
48.	Deltamethrin	0.20
49.	Diafenthiuron	0.01*
50.	Diazinon	0.01*
51.	Dichlorvos	0.01*
52.	Dicofol (sum of p, p' and o,p' isomers)	0.02*
53.	Dieldrin (see Aldrin)	0.01*
54.	Difenoconazole	3.0
55.	Diflubenzuron	1.00
56.	Dimethoate (Including Omethoate)	0.02*
57.	Dimethomorph	3.00
58.	Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap) (F)	0.02*
59.	Dinotefuran	0.9
60.	Diquat	0.01*
61.	Dithianon	3.00
62.	Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb and Ziram collectively estimated as CS2)	5.00
63.	Diuron (Diuron including all components containing 3,4- dichloroaniline moiety expressed as 3,4-dichloroaniline)	0.01*
64.	Dodine	0.01*
65.	Edifenphos	0.01*
66.	Emamectin Benzoate	0.05
67.	Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulphan sulphate expressed as endosulphan)	0.05*
68.	Endrin	0.01*
69.	Ethephon	1.0
70.	Ethion	0.01*

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71.	Ethofenprox (Etofenprox)	5.00
72.	Etoxazole	0.5
73.	Etrimfos	0.01*
74.	Famoxadone	2.00
75.	Fenamidone	0.6
76.	Fenarimol	0.30
77.	Fenazaquin	0.20
78.	Fenitrothion	0.01*
79.	Fenobucarb	0.01*
80.	Fenpropathrin	0.01*
81.	Fenpyroximate	0.30
82.	Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent)	0.01*
83.	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R)	0.3
84.	Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)	0.005*
85.	Flonicamid (sum of flonicamid, TNFG and TNFA) (R)	0.03*
86.	Flubendiamide	2.00
87.	Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent)	0.05*
88.	Flufenoxuron	1.00
89.	Flufenzine	0.02*
90.	Fluopicolide	2.00
91.	Fluopyram	1.50
92.	Flusilazole	0.01*
93.	Fluxapyroxad	0.5
94.	Forchlorfenuron (CPPU)	0.01*
95.	Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl)	100
96.	Glufosinate-ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents)	0.15
97.	Glyphosate	0.50
98.	HCH (sum of isomers, except the <i>gamma</i> isomer)	0.01*
99.	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)	0.01*
100.	Hexaconazole	0.01*
101.	Hexythiazox	1.00
102.	Homobrassinolide	0.01*†
103.	Hydrogen cyanamide (Cyanamide including salts expressed as cyanamide)	0.01*
104.	Imidacloprid	1.00
105.	Indoxacarb (sum of R and S isomers)	2.00
106.	Iodosulfuron-methyl (iodosulfuron-methyl including salts, expressed as iodosulfuron-methyl)	0.01*
107.	Iprobenphos	0.01*

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108.	Iprodione	20.0
109.	Iprovalicarb	2.00
110.	Isoprothiolane	0.01*
111.	Isoproturon	0.01*
112.	Kresoxim methyl	1.00
113.	Lambda-cyhalothrin	0.20
114.	Lead	0.10
115.	Lindane ( <i>gamma</i> -HCH)	0.01*
116.	Linuron	0.05*
117.	Lufenuron	1.00
118.	Malathion (sum of malathion and malaaxon expressed as malathion)	0.02*
119.	Mandipropamid	2.00
120.	Mepiquat	0.02*
121.	Meptyldinocap (sum of 2,4 DNOPC and 2,4 DNOP expressed as meptyldinocap)	1.00
122.	Metalaxyl & Metalaxyl-M	2.00
123.	Methamidophos	0.01*
124.	Methomyl and Thiodicarb (sum of methomyl and thiodicarb expressed as methomyl)	0.02*
125.	Metolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))	0.05*
126.	Metrafenone	7.00
127.	Metribuzin	0.10*
128.	Milbemectin (sum of milbemycin A4 and milbemycin A3, expressed as milbemectin)	0.02*
129.	Monocrotophos	0.01*
130.	Myclobutanil	1.00
131.	Nereistoxin	0.01*
132.	Novaluron	0.01*
133.	Omethoate (refer to Dimethoate)	0.02*
134.	Oxadiazon	0.05*
135.	Oxycarboxin	0.01*
136.	Oxydemeton- methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl)	0.01*
137.	Oxyfluorfen	0.10
138.	Paclobutrazol	0.05
139.	Paraquat	0.02*
140.	Parathion methyl (sum of Parathion methyl and paraoxon methyl expressed as Parathion methyl)	0.01*
141.	Parathion ethyl	0.05*
142.	Penconazole	0.20
143.	Pencycuron	0.05*
144.	Pendimethalin	0.05*

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145.	Permethrin (sum of isomers)	0.05*
146.	Phenthoate	0.01*
147.	Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)	0.01*
148.	Phosalone	0.01*
149.	Phosphamidon	0.01*
150.	Pirimiphos-methyl	0.01*
151.	Profenophos	0.01*
152.	Propamocarb (sum of propamocarb and its salt expressed as propamocarb)	0.01*
153.	Propanil	0.01*
154.	Propargite	0.01*
155.	Propetamphos	0.01*
156.	Propiconazole	0.30
157.	Propoxur	0.05*
158.	Pyraclostrobin	1.00
159.	Pyridaben	0.50
160.	Pyriproxyfen	0.05*
161.	Quinalphos	0.01*
162.	Simazine	0.20
163.	Spinosad (sum of Spinosyn A+D)	0.50
164.	Spirodiclofen	2.00
165.	Spiromesifen	0.02*
166.	<i>tau</i> - Fluvalinate	1.0
167.	Tebuconazole	0.5
168.	Temephos	0.01*
169.	Tetraconazole	0.50
170.	Thiacloprid	0.01*
171.	Thiamethoxam (sum of thiamethoxam and clothianidin expressed as thiamethoxam)	0.4
172.	Thiobencarb	0.01*
173.	Thiodicarb (see Methomyl)	0.02*
174.	Thiometon	0.01*
175.	Thiocyclam	0.01*
176.	Thiophanate-methyl	0.10*
177.	Transfluthrin	0.01*
178.	Triadimefon (sum of triadimefon and triadimenol)	2.00
179.	Triazophos	0.01*
180.	Trichlorfon	0.01*
181.	Tricyclazole	0.05*
182.	Tridemorph	0.01*
183.	Trifloxystrobin	3.0
184.	Trifluralin	0.01*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg )
185.	Uracil	1.00†

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

[http://ec.europa.eu/sanco\\_pesticides/public/index.cfm?event=substance.selection](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 NRC for Grapes.

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

**Gibberellic Acid and Sulphur** are deleted from Annexure 9 as per the EU pesticide database:

<http://ec.europa.eu/food/plant/pesticides/eu-pesticides-database/public/?event=pesticide.residue>.

CurrentMRL&language=EN&pestResidueId=319

\$1-naphthylacetic acid MRL will be revised from 0.05\*to 0.06\* mg/kg on 19th January 2017 as per the Commission Regulation (EU) 2016/1015 of 17th June 2016