



Orange residue testing annual datasets 2018

National Residue Survey, Department of Agriculture and Water Resources

Dataset abbreviations

LOR Limit of reporting.

MRL Maximum residue limit.

no limit No Australian standard applicable for the contaminant. The 'as low as reasonably achievable' principle applies. Detections at low levels are allowable.

not defined Standards are not defined in inedible matrixes (urine and faeces).

Not Set No Australian standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australia New Zealand Food Standards Code.

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Table 1 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2-phenylphenol	whole	0.05	10	239	0	0
azoxystrobin	whole	0.01	3	239	0	0
benalaxyl	whole	0.01	not set	239	0	0
bitertanol	whole	0.01	not set	239	0	0
boscalid	whole	0.01	0.5	239	0	0
bupirimate	whole	0.01	not set	239	0	0
captafol	whole	0.05	not set	239	0	0
captan	whole	0.05	not set	239	0	0
carbendazim	whole	0.01	not set	239	0	0
chlorothalonil	whole	0.01	not set	239	0	0
cyproconazole	whole	0.01	not set	239	0	0
cyprodinil	whole	0.01	not set	239	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
difenoconazole	whole	0.01	not set	239	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	239	0	0
dithianon	whole	0.01	2	239	0	0
dodine	whole	0.01	not set	239	0	0
epoxiconazole	whole	0.01	not set	239	0	0
etridiazole	whole	0.01	not set	239	0	0
fenarimol	whole	0.01	not set	239	0	0
fenbuconazole	whole	0.01	not set	129	0	0
fenhexamid	whole	0.01	not set	239	0	0
fluazinam	whole	0.01	not set	239	0	0
fludioxonil	whole	0.01	10	239	19	0
fluopyram	whole	0.01	not set	129	0	0
fluquinconazole	whole	0.01	not set	239	0	0
flusilazole	whole	0.01	not set	239	0	0
flutriafol	whole	0.01	0.5	239	0	0
hexaconazole	whole	0.01	not set	239	0	0
imazalil	whole	0.01	10	239	199	0
iprodione	whole	0.05	not set	239	0	0
kresoxim-methyl	whole	0.01	not set	239	0	0
mandestrobin	whole	0.01	not set	129	0	0
metalaxyl	whole	0.01	not set	239	0	0
metrafenone	whole	0.01	not set	239	0	0
myclobutanil	whole	0.01	not set	239	0	0
oxadixyl	whole	0.01	not set	239	0	0
paclobutrazol	whole	0.01	not set	239	0	0
penconazole	whole	0.01	not set	239	0	0
penthiopyrad	whole	0.01	not set	239	0	0
prochloraz	whole	0.01	not set	239	0	0
procymidone	whole	0.01	not set	239	0	0
propiconazole	whole	0.01	7	239	0	0
prothioconazole	whole	0.05	not set	239	0	0
pyraclostrobin	whole	0.01	not set	239	0	0
pyrimethanil	whole	0.01	7	239	23	0
tebuconazole	whole	0.01	not set	239	0	0
thiabendazole-P	whole	0.01	10	239	193	1
tolclofos methyl	whole	0.01	not set	239	0	0
triadimefon	whole	0.01	not set	239	0	0
triadimenol	whole	0.01	not set	239	0	0
trifloxystrobin	whole	0.01	not set	239	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
triforine	whole	0.01	not set	129	0	0
triticonazole	whole	0.01	not set	239	0	0
vinclozolin	whole	0.01	not set	239	0	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	whole	0.05	0.1	239	0	0
2,4-D	whole	0.01	5	239	38	0
atrazine	whole	0.01	not set	239	0	0
bromacil	whole	0.01	0.04	239	0	0
bromoxynil	whole	0.01	not set	239	0	0
carfentrazone-ethyl	whole	0.01	0.05	239	0	0
chlorpropham	whole	0.05	not set	239	0	0
chlorsulfuron	whole	0.01	not set	239	0	0
chlorthal-dimethyl	whole	0.01	not set	239	0	0
clethodim (parent only)	whole	0.01	not set	239	0	0
clodinafop-propargyl	whole	0.01	not set	239	0	0
clopyralid	whole	0.05	not set	239	0	0
cyanazine	whole	0.01	not set	239	0	0
dicamba	whole	0.01	not set	239	0	0
dichlobenil	whole	0.01	0.1	239	0	0
dichlorprop-P	whole	0.01	0.2	239	0	0
diflufenican	whole	0.01	not set	239	0	0
diuron	whole	0.01	not set	239	0	0
ethofumesate	whole	0.01	not set	239	0	0
flumioxazin	whole	0.02	0.05	129	0	0
iodosulfuron-methyl	whole	0.01	not set	239	0	0
ioxynil	whole	0.01	not set	239	0	0
isoxaben	whole	0.01	0.01	239	0	0
linuron	whole	0.05	not set	239	0	0
MCPA	whole	0.01	not set	239	0	0
methabenzthiazuron	whole	0.01	not set	239	0	0
metolachlor	whole	0.01	not set	239	0	0
metosulam	whole	0.01	not set	239	0	0
metribuzin	whole	0.01	not set	239	0	0
metsulfuron-methyl	whole	0.01	not set	239	0	0
napropamide	whole	0.01	not set	239	0	0
norflurazon	whole	0.01	0.2	239	0	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
oryzalin	whole	0.01	0.1	239	0	0
oxyfluorfen	whole	0.01	not set	239	0	0
pendimethalin	whole	0.01	0.05	239	0	0
picloram	whole	0.01	not set	239	0	0
propachlor	whole	0.01	not set	239	0	0
propyzamide	whole	0.01	not set	239	0	0
quizalofop-ethyl	whole	0.01	not set	239	0	0
quizalofop-P-tefuryl	whole	0.01	not set	239	0	0
saflufenacil	whole	0.01	0.03	239	0	0
sethoxydim	whole	0.01	not set	239	0	0
simazine	whole	0.01	0.1	239	0	0
tralkoxydim	whole	0.01	not set	239	0	0
triasulfuron	whole	0.01	not set	239	0	0
triclopyr	whole	0.01	0.2	239	0	0
trifluralin	whole	0.01	0.05	239	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
acephate	whole	0.05	not set	239	0	0
acetamiprid-P	whole	0.01	1	239	0	0
aldicarb	whole	0.01	not set	239	0	0
amitraz	whole	0.01	not set	239	0	0
azamethiphos	whole	0.01	not set	239	0	0
azinphos-methyl	whole	0.01	not set	239	0	0
bifenazate	whole	0.01	not set	239	0	0
bifenthrin	whole	0.01	0.05	239	2	1
bioresmethrin	whole	0.01	not set	239	0	0
buprofezin	whole	0.01	2	239	0	0
cadusafos	whole	0.01	0.01	239	0	0
carbaryl	whole	0.01	3	239	1	0
carbofuran	whole	0.01	not set	239	0	0
chlorantraniliprole	whole	0.01	0.01	239	0	0
chlorfenapyr	whole	0.01	not set	239	0	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	239	0	0
chlorpyrifos	whole	0.01	0.5	239	74	1
chlorpyrifos-methyl	whole	0.01	not set	239	0	0
clofentezine	whole	0.01	not set	239	0	0
clothianidin	whole	0.01	0.2	239	28	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyantraniliprole	whole	0.01	0.7	129	3	0
cyfluthrin (sum of isomers)	whole	0.01	not set	239	0	0
cyhalothrin (sum of isomers)	whole	0.01	0.01	239	0	0
cypermethrin (sum of isomers)	whole	0.01	0.01	239	0	0
deltamethrin	whole	0.01	not set	239	0	0
diazinon	whole	0.01	0.7	239	0	0
dichlorvos	whole	0.01	0.1	239	0	0
dicofol	whole	0.01	5	239	0	0
diflubenzuron	whole	0.01	not set	239	0	0
dimethoate	whole	0.01	5	239	16	0
disulfoton	whole	0.01	not set	239	0	0
esfenvalerate	whole	0.01	not set	239	0	0
ethion	whole	0.01	1	239	0	0
ethoprophos	whole	0.005	not set	239	0	0
etoxazole	whole	0.01	0.5	239	0	0
fenamiphos	whole	0.01	not set	239	0	0
fenbutatin oxide	whole	0.01	5	239	1	0
fenitrothion	whole	0.01	not set	239	0	0
fenoxycarb	whole	0.01	not set	239	0	0
fenpyroximate	whole	0.01	not set	239	0	0
fenthion	whole	0.01	not set	239	0	0
fenvalerate (sum of isomers)	whole	0.01	not set	239	0	0
fipronil	whole	0.01	0.01	239	0	0
flonicamid	whole	0.01	not set	239	0	0
hexythiazox	whole	0.01	not set	239	0	0
imidacloprid	whole	0.01	2	239	34	0
indoxacarb	whole	0.01	not set	239	0	0
malathion (maldison)	whole	0.01	4	239	1	0
metaldehyde	whole	0.05	1	239	0	0
methacrifos	whole	0.01	not set	239	0	0
methamidophos	whole	0.01	not set	239	0	0
methidathion	whole	0.01	2	239	10	0
methiocarb	whole	0.01	0.1	239	0	0
methomyl	whole	0.01	1	239	0	0
methoprene	whole	0.01	not set	239	0	0
methoxychlor	whole	0.01	not set	239	0	0
methoxyfenozide	whole	0.01	1	239	1	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
mevinphos	whole	0.01	not set	239	0	0
monocrotophos	whole	0.01	not set	239	0	0
novaluron	whole	0.01	not set	129	0	0
omethoate	whole	0.01	2	239	3	0
parathion	whole	0.01	not set	239	0	0
parathion-methyl	whole	0.01	not set	239	0	0
permethrin (sum of isomers)	whole	0.01	not set	239	0	0
phenothrin (sum of isomers)	whole	0.01	not set	239	0	0
phorate	whole	0.01	not set	239	0	0
phosmet	whole	0.01	not set	239	0	0
piperonyl butoxide	whole	0.01	8	239	0	0
pirimicarb	whole	0.01	0.5	239	0	0
pirimiphos-methyl	whole	0.01	not set	239	0	0
profenofos	whole	0.01	not set	239	0	0
propargite	whole	0.01	not set	239	0	0
prothiofos	whole	0.01	not set	239	0	0
pymetrozine	whole	0.01	not set	239	0	0
pyrethrins	whole	0.05	1	239	0	0
pyridaben	whole	0.02	not set	239	0	0
pyriproxyfen	whole	0.01	0.3	239	0	0
spinetoram	whole	0.01	0.2	239	0	0
spinosad	whole	0.01	0.3	239	0	0
spirotetramat	whole	0.01	1	239	4	0
sulfoxaflor	whole	0.01	0.7	239	0	0
tau-fluvalinate	whole	0.01	not set	239	0	0
tebufenozide	whole	0.01	1	239	0	0
tebufenpyrad	whole	0.01	not set	239	0	0
terbufos	whole	0.01	not set	239	0	0
tetradifon	whole	0.01	not set	239	0	0
thiacloprid	whole	0.01	not set	239	0	0
thiamethoxam	whole	0.01	1	239	0	0
thiodicarb	whole	0.01	not set	239	0	0
triazofos	whole	0.01	not set	239	0	0
trichlorfon	whole	0.01	0.1	239	0	0
triflumuron	whole	0.01	not set	239	0	0

Table 4 Contaminants

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin (HHDN+HEOD)	whole	0.01	0.05	239	0	0
chlordane	whole	0.01	0.02	239	0	0
DDT	whole	0.01	1	239	0	0
endosulfan	whole	0.01	not set	239	0	0
endrin	whole	0.01	not set	239	0	0
HCB (hexachlorobenzene)	whole	0.01	not set	239	0	0
HCH (BHC)	whole	0.01	not set	239	0	0
heptachlor	whole	0.01	0.01	239	0	0
lindane (gamma-HCH)	whole	0.01	0.5	239	0	0
mirex	whole	0.01	not set	239	0	0

Table 4 - Physiological Modifier

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diphenylamine	whole	0.01	not set	239	0	0