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# Message in a Bottle

Results of pesticide analysis of  
40 bottles of wine bought  
in the EU

This analysis of wine samples purchased in the European Union was coordinated and published by PAN Europe. Wine testing in Germany was conducted by Greenpeace Germany; in Austria by Global 2000 (Friends of the Earth Austria); and in France by MDRGF (Mouvement pour le Droit et le Respect des Générations Futures). While the results of this study provide substantial evidence of the contamination of European wines samples, they should not be taken as providing a comprehensive assessment.

## French Wines: CONVENTIONAL

Description	Pesticides Identified	Carcinogen	Developmental or Reproductive Toxin	Endocrine Disruptor	Neurotoxin	WHO Hazard Class
Bourgogne (Auxey Duresses)	dimethomorph: 55µg/l					
	pyrimethanil: 1.5 µg/l	Possible <sup>6</sup>				
	cyprodinil: < 1 µg/l					
	procymidone: < 1 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	tebuconazole: (trace)	Possible <sup>6</sup>				III <sup>8</sup>
Bourgogne (Santenay Premier Cru)	pyrimethanil: 29.4 µg/l	Possible <sup>6</sup>				
	iprodione: 10.1 µg/l	√ <sub>1</sub>				
	dimethomorph: 7 µg/l					
	carbendazim: 3.6 µg/l		√ <sub>2,3</sub>			
	fludioxonil: 2.2 µg/l					
	cyprodinil: < 1 µg/l					
	procymidone: < 1 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	bromopropylate: < 1 µg/l					
	tetradifon: (trace)					
Bourgogne (Mercurey Premier Cru)	dimethomorph: 17 µg/l					
	pyrimethanil: 1.3 µg/l	Possible <sup>6</sup>				
	cyprodinil: < 1 µg/l					
Bordeaux (Pessac-Léognan Cru Classé)	procymidone: 8.6 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	cyprodinil: 6.8 µg/l					
	fludioxonil: 1.3 µg/l					
Bordeaux (Saint Estèphe Cru Classé)	pyrimethanil: 233.8 µg/l	Possible <sup>6</sup>				
	procymidone: 69.1 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		

Bordeaux (Pessac-Léognan Cru Classé)	azoxystrobin: 13.2 µg/l					
	dimethomorph: 13.1 µg/l					
	procymidone: 5.8 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	pyrimethanil: 2 µg/l	Possible <sup>6</sup>				
	fenhexamid: (trace)					
Bordeaux (Pomerol)	pyrimethanil: 14.2 µg/l	Possible <sup>6</sup>				
	azoxystrobin: 3.1 µg/l					
	dimethomorph: 2.9 µg/l					
	cyprodinil: < 1 µg/l					
	procymidone: < 1 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	carbendazim: < 1 µg/l		√ <sub>2,3</sub>			
	fenhexamid: (trace)					
	tebufenpyrad: (trace)					III <sup>8</sup>
Bordeaux (Lalande de Pomerol)	pyrimethanil: 160 µg/l	Possible <sup>6</sup>				
	iprodione: 20 µg/l	√ <sub>1</sub>				
	procymidone: 15 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
Bordeaux (Pomerol)	procymidone: 12 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	pyrimethanil: 7 µg/l	Possible <sup>6</sup>				
Bordeaux (Pessac Léognan)	iprodione: 140 µg/l	√ <sub>1</sub>				
	procymidone: 110 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	pyrimethanil: 17 µg/l	Possible <sup>6</sup>				

**KEY:**

- 1) Classified as a carcinogen under the EU Directive on Dangerous Substances
- 2) Classified as a mutagen under the EU Directive on Dangerous Substances
- 3) Classified as a reprotoxin under the EU Directive on Dangerous Substances
- 4) Classified as an endocrine disruptor (category 1) under EU COM(1999)706
- 5) Listed as a 'likely' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 6) Listed as a 'possible' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 7) Listed as Class II under the World Health Organisation classification of pesticides by hazard
- 8) Listed as Class III under the World Health Organisation classification of pesticides by hazard
- 9) A cholinesterase inhibitor

## Austrian Wines: CONVENTIONAL

Description	Pesticides Identified	Carcinogen	Developmental or Reproductive Toxin	Endocrine Disruptor	Neurotoxin	WHO Hazard Class
Niederösterreich (Blauer Portugieser)	pyrimethanil: 48 µg/kg	<b>Possible</b> <sup>6</sup>				
	cyprodinil: 15 µg/kg					
	iprovalicarb: 12 µg/kg	<b>Likely</b> <sup>5</sup>				
	fludioxonil: 7 µg/kg					
Vienna (Weisburgunder Seidenhaus)	fludioxonil: 9 µg/kg					
	cyprodinil: 8 µg/kg					
Niederösterreich (Grüner Veltliner DAC Weinviertel)	pyrimethanil: 4 µg/kg	<b>Possible</b> <sup>6</sup>				
Niederösterreich (Gelber Muskateller)	pyrimethanil: 32 µg/kg	<b>Possible</b> <sup>6</sup>				
	iprovalicarb: 15 µg/kg	<b>Likely</b> <sup>5</sup>				
	cyprodinil: 2 µg/kg					
Styria (Sauvignon blanc Edition Römerstein)	pyrimethanil: 6 µg/kg	<b>Possible</b> <sup>6</sup>				
	fludioxonil: 5 µg/kg					
	cyprodinil: 4 µg/kg					
Niederösterreich (Federspiel Riesling)	iprovalicarb: 34 µg/kg	<b>Likely</b> <sup>5</sup>				
	pyrimethanil: 15 µg/kg	<b>Possible</b> <sup>6</sup>				
	fludioxonil: 7 µg/kg					
	dimethomorph: 4 µg/kg					
Burgenland (Terra Austria Cuvee Barique)	pyrimethanil: 23 µg/kg	<b>Possible</b> <sup>6</sup>				
	cyprodinil: 7 µg/kg					

	fludioxonil: 5 µg/kg					
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- 3) Classified as a reprotoxin under the EU Directive on Dangerous Substances
- 4) Classified as an endocrine disruptor (category 1) under EU COM(1999)706
- 5) Listed as a 'likely' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 6) Listed as a 'possible' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 7) Listed as Class II under the World Health Organisation classification of pesticides by hazard
- 8) Listed as Class III under the World Health Organisation classification of pesticides by hazard
- 9) A cholinesterase inhibitor

## German Wines: CONVENTIONAL

Description	Pesticides Identified	Carcinogen	Developmental or Reproductive Toxin	Endocrine Disruptor	Neurotoxin	WHO Hazard Class
Rheinhessen (Beeren-auslese Prädikats-wein)	fenhexamid: 26 µg/kg					
	pyrimethanil: 7.8 µg/kg	<b>Possible</b> <sup>6</sup>				
	dimethomorph: 2.8 µg/kg					
	boscalid: 2 µg/kg					
Württemberg (Trollinger Qualitätswein)	iprovalicarb: 12 µg/kg	<b>Likely</b> <sup>5</sup>				
	boscalid: 10 µg/kg					
	dimethomorph: 5 µg/kg					
	fenhexamid: 3.6 µg/kg					
	tebufenozide: 4.3 µg/kg					
	pyrimethanil: 2.5 µg/kg	<b>Possible</b> <sup>6</sup>				
	cyprodinil: 2.4 µg/kg					
Baden (Spätburg-under Qualitäts-wein)	iprovalicarb: 60 µg/kg	<b>Likely</b> <sup>5</sup>				
	boscalid: 21 µg/kg					
	dimethomorph: 16 µg/kg					
	methoxyfenozide: 13 µg/kg					
	cyprodinil: 10 µg/kg					
	pyrimethanil: 8.2 µg/kg	<b>Possible</b> <sup>6</sup>				
	fludioxonil: 7.4 µg/kg					
	fenhexamid: 5.7 µg/kg					
	tebufenozide: 4.1 µg/kg					
	metalaxyl: 4 µg/kg					III <sup>8</sup>

Mosel, Saar, Ruwer (Riesling Qualitätswein feinherb)	fenhexamid: 22 µg/kg					
	dimethomorph: 2 µg/kg					
Moselland (Riesling)	iprovalicarb: 31 µg/kg	<b>Likely</b> <sup>5</sup>				
	fenhexamid: 18 µg/kg					
	boscalid: 14 µg/kg					
	pyrimethanil: 11 µg/kg	<b>Possible</b> <sup>6</sup>				
	dimethomorph: 9.4 µg/kg					
	metalaxyl: 3.2 µg/kg					III <sup>8</sup>
	azoxystrobin: 2 µg/kg					
	methoxyfenozide: 2 µg/kg					
Saale Unstrut (Dornfelder Qualitätswein b.A.)	fenhexamid: 450 µg/kg					
	pyrimethanil: 190 µg/kg	<b>Possible</b> <sup>6</sup>				
	dimethomorph: 89 µg/kg					
	fenarimol: 5.1 µg/kg		√ <sub>3</sub>	√ <sub>4</sub>		
	spiroxamine: 3.7 µg/kg					II <sup>7</sup>
	tebuconazole: 3.2 µg/kg	<b>Possible</b> <sup>6</sup>				III <sup>8</sup>
Pfalz (Silvaner Qualitätswein)	tebuconazole: 17 µg/kg	<b>Possible</b> <sup>6</sup>				III <sup>8</sup>
	dimethomorph: 11 µg/kg					
	boscalid: 11 µg/kg					
	azoxystrobin: 7.2 µg/kg					
	pyrimethanil: 3.5 µg/kg	<b>Possible</b> <sup>6</sup>				
Rheinhessen (Wormser Liebfrauenmorgen Qualitätswein)	fenhexamid: 5.5 µg/kg					
Pfalz (Müller Thurgau Qualitätswein)	fenhexamid: 16 µg/kg					
	iprovalicarb: 12 µg/kg	<b>Likely</b> <sup>5</sup>				
	boscalid: 10 µg/kg					



	pyrimethanil: 7.4 µg/kg	<b>Possible</b> <sup>6</sup>				
	tebufenozide: 5.6 µg/kg					
	dimethomorph: 4.6 µg/kg					
	azoxystrobin: 3.9 µg/kg					
	metalaxyl: 2.9 µg/kg					III <sup>8</sup>
Rheinhessen (Portugieser Weißherbst Qualitätswein)	fenhexamid: 19 µg/kg					
	iprovalicarb: 18 µg/kg	<b>Likely</b> <sup>5</sup>				
	boscalid: 15 µg/kg					
	dimethomorph: 5.9 µg/kg					

**KEY:**

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- 3) Classified as a reprotoxin under the EU Directive on Dangerous Substances
- 4) Classified as an endocrine disruptor (category 1) under EU COM(1999)706
- 5) Listed as a 'likely' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 6) Listed as a 'possible' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 7) Listed as Class II under the World Health Organisation classification of pesticides by hazard
- 8) Listed as Class III under the World Health Organisation classification of pesticides by hazard
- 9) A cholinesterase inhibitor

## Other Wines: CONVENTIONAL

Description	Pesticides Identified	Carcinogen	Developmental or Reproductive Toxin	Endocrine Disruptor	Neurotoxin	WHO Hazard Class
Italy: Latium (IGT Lazio)	dimethomorph: 2.7 µg/l					
	pyrimethanil: 1.9 µg/l	<b>Possible</b> <sup>6</sup>				
	cyprodinil: 1.4 µg/l					
	azoxystrobin: 1.2 µg/l					
	benalaxyl: < 1 µg/l					
	procymidone: < 1µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
Italy: Sicily (IGT Sicilia)	cyprodinil: 1.9 µg/l					
Italy: Piedmont (DOC Langhe)	cyprodinil: 11.6 µg/l					
	pyrimethanil: 10.5 µg/l	<b>Possible</b> <sup>6</sup>				
	fludioxonil: 7.2 µg/l					
	dimethomorph: 1.4 µg/l					
	benalaxyl: 1.3 µg/l					
	fenitrothion: < 1 µg/l				√ <sub>9</sub>	II <sup>7</sup>
	procymidone: < 1 µg/l	√ <sub>1</sub>	√ <sub>3</sub>	√ <sub>4</sub>		
	iprovalicarb: < 1 µg/l	<b>Likely</b> <sup>5</sup>				
Portugal (DOC Douro)	iprodione: 8.4 µg/l	√ <sub>1</sub>				
	cyprodinil: < 1 µg/l					
	penconazole: (trace)					
South Africa (Stellenbosch)	dimethomorph: 24.6 µg/l					
	flusilazole: (trace)	√ <sub>1</sub>	√ <sub>3</sub>			II <sup>7</sup>

Australia (Branded wine)	iprodione: 18.4 µg/l	√ <sub>1</sub>				
	carbendazim: 18 µg/l		√ <sub>2,3</sub>			
	pyrimethanil: 3.2 µg/l	Possible <sup>6</sup>				
	cyprodinil: < 1 µg/l					
Chile (Branded wine)	iprodione: 586 µg/l	√ <sub>1</sub>				
	fludioxonil: 4.3 µg/l					
	cyprodinil: < 1 µg/l					
	tebuconazole: (trace)	Possible <sup>6</sup>				III <sup>8</sup>
	flusilazole: (trace)	√ <sub>1</sub>	√ <sub>3</sub>			II <sup>7</sup>
	fenhexamid: (trace)					

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- 3) Classified as a reprotoxin under the EU Directive on Dangerous Substances
- 4) Classified as an endocrine disruptor (category 1) under EU COM(1999)706
- 5) Listed as a 'likely' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 6) Listed as a 'possible' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 7) Listed as Class II under the World Health Organisation classification of pesticides by hazard
- 8) Listed as Class III under the World Health Organisation classification of pesticides by hazard
- 9) A cholinesterase inhibitor

## France & Austria: ORGANIC

Description	Pesticides Identified	Carcinogen	Developmental or Reproductive Toxin	Endocrine Disruptor	Neurotoxin	WHO Hazard Class
Bordeaux (Côtes de Bourg)	(no residues)					
Bourgogne	pyrimethanil: 7.6 µg/l	<b>Possible</b> <sup>6</sup>				
Bordeaux (Pomerol)	(no residues)					
Burgenland (Zweigelt)	(no residues)					
Niederösterreich (Gruener Veltliner)	(no residues)					
Niederösterreich (Welschriesling)	(no residues)					

**KEY:**

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- 3) Classified as a reprotoxin under the EU Directive on Dangerous Substances
- 4) Classified as an endocrine disruptor (category 1) under EU COM(1999)706
- 5) Listed as a 'likely' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 6) Listed as a 'possible' carcinogen under the US EPA (Pesticide Programs) Carcinogen List
- 7) Listed as Class II under the World Health Organisation classification of pesticides by hazard
- 8) Listed as Class III under the World Health Organisation classification of pesticides by hazard
- 9) A cholinesterase inhibitor