

PAN Pesticides Database - Chemicals

[JOIN PAN >>](#)[Home](#) > [Chemical Search](#)[Help](#) | [Feedback](#)

Propiconazole - Identification, toxicity, use, water pollution potential, ecological toxicity and regulatory information

Note: See [Working with the Information on this Page](#) section below for important notes about this data.

This database and website are updated and enhanced by [Pesticide Action Network North America](#) (PANNA). The project is made possible by our [Sponsors](#) and by PANNA general funds. We need your support to maintain and improve this system. Please support the database and website — [donate to PANNA](#).

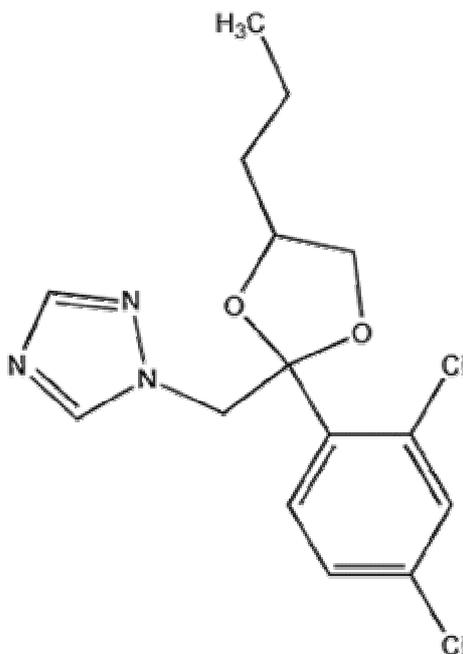
Chemical ID	Identifying information, including synonyms, ID numbers, use type, chemical classification, a link to a list of all products containing this chemical and a list of the top crops this pesticide is used on in California.
Poisoning Symptoms	Signs and symptoms of poisoning, first aid, and links to treatment information for this chemical.
Toxicity	Link to information on toxicity to humans, including carcinogenicity, reproductive and developmental toxicity, neurotoxicity, and acute toxicity.
Regulatory	Links to world-wide registration status as well as regulatory information for the U.S. and California.
Water	Water quality standards and physical properties affecting water contamination potential.
Ecotoxicity	Toxicity to aquatic organisms.
Related Chems	List of chemicals in the same family, including breakdown products, salts, esters, isomers, and other derivatives.

Chemical Identification and Use for Propiconazole

[Top](#) ↑

Basic Identification Information About This Chemical

Chemical Name:	Propiconazole
CAS Number:	60207-90-1
U.S. EPA PC Code:	122101
CA DPR Chem Code:	2276
Molecular Weight:	342.2

[Molecular Structure:](#)[Use Type:](#) [Fungicide](#)[Chem Class:](#) [Azole](#)[View Related Chemicals](#)

Additional Resources About This Chemical Class and Use Type

See the [Global Pesticide Resources](#) page for many additional links.

Historical Use of this Chemical

Top five crops and sites for this pesticide in California

[Almonds](#) [Landscape](#) [Peaches](#) [Nectarines](#) [Prunes](#)
[View All Crops and Sites](#)

Other Names for this Chemical

[About Chemical Synonyms](#)

02276 (CA DPR Chem Code Text) , 02276 (CA DPR Chem Code) , 1-((2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole , 122101 (US EPA PC Code Text) , 122101 (US EPA PC Code) , 1H-1,2,4-Triazole, 1-((2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)- , 2276 (CA DPR Chem Code) , 2276 (CA DPR Chem Code) , 264 (PDP Code) , 60207-90-1 (CAS number) , 60207901 , 60207901 (CAS number without hyphens) , Banner , CGA-64250 , Desmel , Propicanazole , Propiconazol , Propiconazole , Propiconazole , Propiconazole (Banner/Tilt) , Propiconazol , Propikonazol , Tilt

Products Containing This Chemical

Current and historic U.S. registered products

[View U.S. Products](#) All Products Currently Registered Products

Signs and Symptoms of Propiconazole Poisoning

[Top](#)



NOTE! There may be other diseases and chemicals that have similar symptoms.



**If you have a poisoning emergency in the United States call 1-800-222-1222.
If the victim has collapsed or is unconscious, call 911.**

Sorry! No symptoms for this chemical or chemical group are available. See [related chemicals](#) for possible additional information.

Toxicity Information for Propiconazole

[Top](#)

Note: Information for many chemicals is incomplete and may not be fully representative of effects on humans. [Why?](#)

Summary Toxicity Information

[PAN Bad Actor Chemical](#) ¹



[Acute Toxicity](#) ²

Moderate

[Carcinogen](#)

Possible

[Cholinesterase Inhibitor](#)

No

[Ground Water Contaminant](#)

Potential

[Developmental or Reproductive Toxin](#)



[Endocrine Disruptor](#)

Suspected



Indicates high toxicity in the given toxicological category.



Indicates no available [weight-of-the-evidence](#) summary assessment. For additional information on toxicity from scientific journals or registration documents, see the "Additional Resources for Toxicity" section of the [chemical detail page](#).

1. [PAN Bad Actors](#) are chemicals that are one or more of the following: highly acutely toxic, cholinesterase inhibitor, known/probable carcinogen, known groundwater pollutant or known reproductive or developmental toxicant. NOTE! Because there are no authoritative lists of Endocrine Disrupting (ED) chemicals, EDs are not yet considered PAN Bad Actor chemicals.

2. The acute toxicity reported on this page is of the pure chemical ingredient only and may not reflect the acute toxicity of individual pesticide products. To view acute toxicity of individual products, click on 'View Products' link in the '[Chemical Identification](#)' section above.

Additional Resources about the Toxicity of this Chemical

Additional Toxicity Info for this Chemical

See the [Global Pesticide Resources](#) page for many additional links.

Detailed Toxicity Information

Acute Toxicity ²	Propiconazole
WHO Acute Hazard	II, Moderately Hazardous
TRI Acute Hazard	Not Listed
Material Safety Data Sheets	Not Available
Acute rating from U.S. EPA product label	Moderately Toxic
U.S. NTP Acute Toxicity Studies	No NTP Studies
 View Studies	
Cholinesterase Inhibitor	No

2. The acute toxicity reported on this page is of the pure chemical ingredient only and may not reflect the acute toxicity of individual pesticide products. To view acute toxicity of individual products, click on 'View Products' link in the '[Chemical Identification](#)' section above.

Cancer Information	Propiconazole
IARC Carcinogens	Not Listed
U.S. NTP Carcinogens	Not Listed
California Prop 65 Known Carcinogens	Not Listed
U.S. EPA Carcinogens	C, Possible
TRI Carcinogen	Not Listed

Endocrine Disruption	Propiconazole
Illinois EPA list	Not listed
Keith list	Not listed
Colborn list	Not listed
Benbrook list	Not listed
Danish Inert list	Not Listed
EU list	Yes

Reproductive and Developmental Toxicity	Propiconazole
CA Prop 65 Developmental Toxin	Not Listed
U.S. TRI Developmental Toxin	Yes
CA Prop 65 Female Reproductive Toxin	Not Listed
CA Prop 65 Male Reproductive Toxin	Not Listed
U.S. TRI Reproductive Toxin	Not Listed

Chemicals of Special Concern	Propiconazole
PAN Bad Actors	Yes
PAN Dirty Dozen list	Not Listed

Water Pollution Potential and Criteria for Propiconazole

[Top](#) 

Water Pollution Potential

[PAN Ground Water Contaminant Rating](#) Potential

Physical Property Data Related to Water Contamination Potential

Water Solubility (Avg, mg/L)	100.0
Adsorption Coefficient (Koc)	656.0
Hydrolysis Half-life (Avg, Days)	-
Aerobic Soil Half-life (Avg, Days)	72.0
Anaerobic Soil Half-life (Avg, Days)	211.0

Sorry, no water quality standards or criteria have been established for this chemical by the U.S. or Canadian governments; however, there may be criteria established for [related chemicals](#).

Regulatory Information for Propiconazole International Regulatory Status

[Top](#) 

[Registration in Selected Countries](#)  [Registration in Selected Countries:
Propiconazole](#)

UNEP Persistent Organic Pollutant (POP)	Not Listed
UNEP Prior Informed Consent Chemical (PIC)	Not Listed
WHO Obsolete Pesticide	Not Listed

U.S. and California Regulatory Status

U.S. EPA Registered	Yes
U.S. EPA Hazardous Air Pollutant	Not Listed
U.S. EPA Minimum Risk Pesticide (25b list)	No

CA Registered	Yes
CA Groundwater Contaminant	Not Listed
CA Toxic Air Contaminant	Not Listed

Maximum Tolerance and Residue Levels

Codex Alimentarius (UN FAO Maximum Residue Limits)	Go to web site
U.S. Maximum Tolerance Levels	Go to web site
European Union Maximum Residue Levels	Go to web site

Ecotoxicity for Propiconazole

[Top](#) 

 **Note!** Information for many chemicals is incomplete and may not be fully representative of effects on the environment. [Why?](#) Click on underlined terms for definitions and additional information.

Aquatic Ecotoxicity

All Toxic Effects for Organism Group

Organism Group	Effects Noted
Amphibians	Development, Growth, Immunological, Mortality
AquaticPlants	Population
Crustaceans	Development, Mortality, Reproduction
Fish	Enzyme(s), Genetics, Mortality
Insects	Mortality, Population
Molluscs	Intoxication, Mortality
NematodesandFlatworms	Population
Phytoplankton	Biochemistry, Physiology, Population
Zooplankton	Development, Genetics, Growth, Intoxication, Mortality, Population, Reproduction
~ Un-Assigned	Population
View All Aquatic Ecotoxicity Studies and References	

Summary of Acute Toxicity for Organism Group

Organism Group	Average Acute Toxicity	Acute Toxicity Range
Crustaceans	Slightly Toxic	Slight to Moderate Toxicity
Fish	Moderately Toxic	Moderate Toxicity
Insects	Moderately Toxic	Moderate to High Toxicity
Molluscs	Moderately Toxic	Moderate Toxicity
Zooplankton	Moderately Toxic	Moderate to High Toxicity
View All Acute Summaries		

Terrestrial Ecotoxicity

Summary of Acute Toxicity for Organism Group

Organism Group	Average Acute Toxicity	Acute Toxicity Range
Honeybees	Slightly Toxic	Slightly Toxic

Note: Population-level effects on honeybees may occur even if a pesticide has low acute toxicity. For example, certain pesticides interfere with honeybee reproduction, ability to navigate, or temperature regulation, any of which can have an effect on long-term survival of honeybee colonies. The neonicotinoids, pyrethroids and keto-enol pesticides are some types of pesticides causing one or more of these effects.

Honeybee Chronic Toxicity

Sorry, no honeybee chronic toxicity data available for this chemical. Try [related chemicals](#).

Related Chemicals for Propiconazole

[Top](#)

CAS Number	Relation	Reason	Chemical Name	Chem Detail	Registration	Symptoms	California Use	Chem Use Type	U.S. EPA Reg	PAN Bad Actor
60207-90-1	Parent	P	Propiconazole	View	View	View	View	Fungicide	Yes	Yes
	Related	6	Propiconazole I	View	View	View	View	Fungicide	No	Not Listed
	Related	6	Propiconazole II	View	View	View	View	Fungicide	No	Not Listed
	Related	5a	Triazole acetic acid (TAA)	View	View	View	View	Breakdown product	No	Not Listed
	Related	5a	Triazole alanine	View	View	View	View	Breakdown	No	Not

		(TA)					product	Listed
--	--	------	--	--	--	--	---------	--------

Working with the Information on this Page

Click on underlined terms for definitions or go to the [Pesticide Tutorial](#) overview page.

Any underlined term with a book icon  has additional information.

* Data marked with an asterisk indicates that this chemical is not explicitly listed on the corresponding list. Instead, it belongs to a group of chemicals that IS designated on the list. For example, if an agency assigns a classification of reproductive toxicant to "mercury compounds", that classification is applied to all mercury compounds in the PAN Pesticide database, which are then marked with an asterisk.

To print this page, choose **Print**. To export this data, choose **Save As 'HTML Source'** and open it in Excel or equivalent program.

Citation: Kegley, S.E., Hill, B.R., Orme S., Choi A.H., *PAN Pesticide Database*, Pesticide Action Network, North America (San Francisco, CA, 2010), <http://www.pesticideinfo.org>.

© 2000-2010 Pesticide Action Network, North America. All rights reserved.