



LKT Laboratories, Inc.

Tebuconazole

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## Product Information

Product ID T1605

CAS No. 107534-96-3

Chemical Name

Synonym

Formula  $C_{16}H_{22}ClN_3O$

Formula Wt. 307.82

Melting Point 102

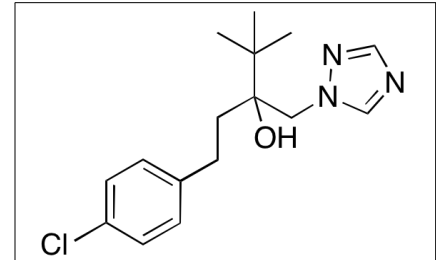
Purity  $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

**Description** Tebuconazole is a triazole pesticide/fungicide with broad antifungal activity. Like many azole fungicides, tebuconazole likely inhibits 14- $\alpha$  demethylase, inhibiting ergosterol production and fungal cell wall synthesis. Additionally, tebuconazole may inhibit aromatase and act as an endocrine disrupter. Tebuconazole also acts as a nonspecific inhibitor of voltage-gated Ca<sup>2+</sup> channels in PC12 neurons, modulating intracellular Ca<sup>2+</sup> levels.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
T1605	5 g	\$62.10
T1605	10 g	\$92.90
T1605	100 g	\$361.70

**References** Heusinkveld HJ, Molendijk J, van den Berg M, et al. Azole fungicides disturb intracellular Ca<sup>2+</sup> in an additive manner in dopaminergic PC12 cells. *Toxicol Sci.* 2013 Aug;134(2):374-81. PMID: 23708404.

Kjærstad MB, Taxvig C, Nellemann C, et al. Endocrine disrupting effects in vitro of conazole antifungals used as pesticides and pharmaceuticals. *Reprod Toxicol.* 2010 Dec;30(4):573-82. PMID: 20708073.

Taxvig C, Vinggaard AM, Hass U, et al. Endocrine-disrupting properties in vivo of widely used azole fungicides. *Int J Androl.* 2008 Apr;31(2):170-7. PMID: 18067565.

Taxvig C, Hass U, Axelstad M, et al. Endocrine-disrupting activities in vivo of the fungicides tebuconazole and epoxiconazole. *Toxicol Sci.* 2007 Dec;100(2):464-73. PMID: 17785682.

Sanderson JT, Boerma J, Lansbergen GW, et al. Induction and inhibition of aromatase (CYP19) activity by various classes of pesticides in H295R human adrenocortical carcinoma cells. *Toxicol Appl Pharmacol.* 2002 Jul 1;182(1):44-54. PMID: 12127262.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.