

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2023-1458  
**Application:** Changes to Technical Grade Active Ingredient (Product Chemistry) – New Source (Site) Same Registrant  
**Applicant:** Albaugh, LLC  
**Product:** Tebuconazole Technical  
**Registration Number:** 34371  
**Active ingredient (a.i.):** Tebuconazole  
**PMRA Document Number:** 3584823

### Purpose of Application

The purpose of this application was to register new sources of the technical grade active ingredient for Tebuconazole Technical.

### Chemistry Assessment

Common Name: tebuconazole  
 IUPAC\* Chemical Name: (RS)-1-(4-chlorophenyl)-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol  
 CAS† Chemical Name:  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Tebuconazole Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.9%
Odour	Faint, musty odour
Density	1.22 g/mL at 20°C
Vapour pressure	$3.1 \times 10^{-3}$ mPa (25°C)
pH	5.6 (1% w/v aqueous dispersion)
Solubility in water	30.8 mg/L

Property	Result
n-Octanol/water partition coefficient	log $K_{ow}$ = 3.8

The required chemistry data for Tebuconazole Technical have been provided, reviewed, and found to be acceptable.

### **Health, Environmental and Value Assessments**

Health, environmental and value assessments were not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of the new sources of tebuconazole for Tebuconazole Technical.

## References

### PMRA

#### Document

Number	Reference
3453603	2022, Manufacturing Process of Tebuconazole Technical Grade Active Ingredient, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.4,2.5,2.6,2.7,2.8,2.9, CBI
3453600	2022, Formation of Impurities in the Technical Grade Active Ingredient Tebuconazole, DACO: 2.11.4
2670591	2014, Rotam Tebuconazole Technical Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production Process, Discussion on the Formation of Impurities, Toxicity of Impurities and Certified Limits, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1, CBI
3453602	2021, Five Batch Analysis of Tebuconazole Technical, DACO: 2.13.1, 2.13.2,2.13.3,2.13.4, CBI
3453601	2021, Five Batch Analysis of Tebuconazole Technical, DACO: 2.13.1,2.13.2, 2.13.3,2.13.4, CBI
2670592	2014, Analysis of Five Representative Production Batches of Tebuconazole Technical Grade Active Ingredient (TGAI) To Determine % Tebuconazole and to Quantify its Associated Impurities, DACO: 2.13.1,2.13.2,2.13.3, CBI
2754075	2017, Determination of Nickel Content in Five Representative Production Batches of Tebuconazole Technical, DACO: 2.13.1,2.13.4, CBI

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2024

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of Health Canada, Ottawa, Ontario K1A 0K9.