

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2022-1394  
**Application:** Changes to Technical Grade Active Ingredient (Product Chemistry) – New Source (site) same registrant  
**Product:** Tebuconazole Technical  
**Registration Number:** 34371  
**Active ingredient (a.i.):** Tebuconazole  
**PMRA Document Number:** 3492798

### Purpose of Application

The purpose of this application was to register two new sources of the technical grade active ingredient 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	Odourless
Density	1.21 – 1.24 g/mL at 20°C
Vapour pressure	0.042 mPa at 20 °C
pH	7.5
Solubility in water	0.0466 g/L (pH 6-7)
n-Octanol/water partition coefficient	log K <sub>ow</sub> = 3.6

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 two new sources of tebuconazole for Tebuconazole Technical.

## References

### PMRA

#### Document

Number	Reference
3338618	2016, The Manufacturing Process of Tebuconazole Technical, DACO: 2.11.1, 2.11.2,2.11.3,2.11.4,2.12.1 CBI
3338619	2016, Formation of Impurities in the Technical Grade Active Ingredient Tebuconazole, DACO: 2.11.4 CBI
3338620	2016, 5-Batch Analysis of Tebuconazole TGAI in Accordance with International Regulatory Requirements (EU, US, Brazil and Mexico), DACO: 2.11.4,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3338621	2020, Product and Identity Composition, DACO: 2.11.1,2.11.2,2.11.3,2.11.4, 2.12.1 CBI
3338622	2016, Determination of Active Content and Impurity Profile of Tebuconazole, DACO: 2.11.4,2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3400400	2022, 2.13.4 Five Batches Report for Solvents in Tebuconazole Technical, DACO: 2.13.4 CBI

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