

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2021-0993  
**Application:** Submission Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy – Equivalency/Data Compensation Assessment  
**Product:** NEWAGCO DELTAMETHRIN II TECHNICAL INSECTICIDE  
**Registration Number:** 35031  
**Active ingredient (a.i.):** Deltamethrin  
**PMRA Document Number:** 3303932

### Purpose of Application

The purpose of this application was to register NEWAGCO DELTAMETHRIN II TECHNICAL INSECTICIDE, a new source of the technical grade active ingredient deltamethrin, based on a registered precedent.

### Chemistry Assessment

**Common Name:** Deltamethrin  
**IUPAC\* Chemical Name:** (*S*)- $\alpha$ -cyano-3-phenoxybenzyl (1*R*,3*R*)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate  
**CAS† Chemical Name:** (*S*)-cyano(3-phenoxyphenyl)methyl (1*R*,3*R*)-3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropanecarboxylate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NEWAGCO DELTAMETHRIN II TECHNICAL INSECTICIDE has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	99.2 %
Odour	The product is considered to be a respiratory irritant therefore the odour test was not conducted.
Density	1.5868 g/mL
Vapour pressure	$< 5.9 \times 10^{-4}$ Pa (25 °C)
pH	4.59

<b>Property</b>	<b>Result</b>
Solubility in water	< 6.96 ng/mL (pH 7)
n-Octanol/water partition coefficient	log K <sub>ow</sub> = 5.96

The required chemistry data for NEWAGCO DELTAMETHRIN II TECHNICAL INSECTICIDE 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 sufficient to support the registration of NEWAGCO DELTAMETHRIN II TECHNICAL INSECTICIDE.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3208051	2021, Manufacturing Process of Deltamethrin Technical, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
3208052	2020, Five Batch Analysis of Deltamethrin Technical, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3208053	2008, Product Chemistry of Deltamethrin TGAI, Selected Studies to Fulfil the Requirements of OPPTS Guidelines 830.6302, 830.6303, 830.6304, 830.6313, 830.7000, 830.7050, 830.7200, 830.7300, 830.7570, 830.7840/60 and 830.7950, DACO: 2.14, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 830.7000 CBI
3208065	2018, Five batch Analysis of Deltamethrin Impurities [CBI Removed] in Deltamethrin Technical, DACO: 2.13.4 CBI
3208066	2018, Impurity Analysis in Deltamethrin Technical Grade Active Ingredient (TGAI), DACO: 2.13.4 CBI
3302210	2021, Batch Statement, DACO: 2.13.3 CBI

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