

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-1257
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: Parijat Acetamiprid Technical
Registration Number: 35132
Active ingredient (a.i.): Acetamiprid
PMRA Document Number: 3549285

Purpose of Application

The purpose of this application was to register Parijat Acetamiprid Technical, a new source of acetamiprid, based on a registered precedent product.

Chemistry Assessment

Common Name: Acetamiprid
IUPAC* Chemical Name: (1*E*)-*N*-[(6-chloro-3-pyridyl)methyl]-*N'*-cyano-*N*-methylacetimidamide
CAS† Chemical Name: (1*E*)-*N*-[(6-chloro-3-pyridinyl)methyl]-*N'*-cyano-*N*-methylethanimidamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Parijat Acetamiprid Technical has the following properties:

Property	Result
Colour and physical state	Pale beige solid (powder)
Nominal concentration	99.75 %
Odour	Odourless
Density	1.3009 g/mL
Vapour pressure	N/A
pH	6.84, 1% solution

Property	Result	
Solubility in water	<u>pH</u>	<u>Solubility (g/L)</u>
	Double Distilled Water	4.3703
	4.0	4.6047
	7.0	4.2003
	9.0	4.1303
n-Octanol/water partition coefficient	<u>pH</u>	<u>log K_{ow}</u>
	Double Distilled Water	0.81
	4.0	0.81
	7.0	0.84
	9.0	0.84

The required chemistry data for Parijat Acetamiprid 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 Parijat Acetamiprid Technical.

References

PMRA

Document

Number

Reference

3449111	2023, Determination of Appearance (Color, Odor and Physical State) of Acetamiprid Technical, DACO: 2.14.1,2.14.2,2.14.3
3449112	2023, Determination of Dissociation Constant(s) of Acetamiprid Technical, DACO: 2.14.10
3449113	2019, Determination of Partition Coefficient (n-Octanol/Water) of Acetamiprid Technical, DACO: 2.14.11
3449114	2023, UV-VIS Absorption Spectra of Acetamiprid Technical, DACO: 2.14.12
3449115	2023, Accelerated Storage Stability Test, Stability to Normal, Elevated Temperatures, Metals, Metal Ions and Corrosion Characteristics of Acetamiprid Technical, DACO: 2.14.13,2.14.14
3449117	2023, Determination of pH of 1% (w/v) Aqueous Suspension/Solution of Acetamiprid Technical, DACO: 2.14.15,830.7000
3449118	2019, Determination of Melting Point of Acetamiprid Technical, DACO: 2.14.4
3449119	2023, Determination of Density, Relative Density and Specific Gravity of Acetamiprid Technical, DACO: 2.14.6
3449120	2019, Determination of Water Solubility of Acetamiprid Technical, DACO: 2.14.7
3449122	2022, Determination of Solubility of Acetamiprid Technical in Organic Solvents, DACO: 2.14.8
3464046	2019, Five Batch Analysis of Acetamiprid Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3464048	2019, Five Batch Analysis of Acetamiprid Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3464049	2019, Five Batch Analysis of Acetamiprid Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3547015	2024, Updated Manufacturing Process, DACO: 2.11.3 CBI

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