

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-1552
Application: Submissions Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation
Product: Albaugh Imazamox Technical
Registration Number: 34617
Active ingredient (a.i.): Imazamox
PMRA Document Number: 3361932

Purpose of Application

The purpose of this application was to register a new source of imazamox, Rotam Imazamox Technical, based on precedent.

Chemistry Assessment

Common Name: Imazamox
IUPAC* Chemical Name: 2-[(4*RS*)-4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl]-5-(methoxymethyl)pyridine-3-carboxylic acid
CAS† Chemical Name: 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Rotam Imazamox Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.43%
Odour	Mild characteristic odour
Density	1.3862 – 1.3983 g/mL
Vapour pressure	1.93 x 10 ⁻⁷ Pa at 20°C
pH	2.56 (1% solution)

Property	Result
Solubility in water	<u>pH</u> <u>Solubility (g/L)</u>
	5.88 (distilled water) 4.87
	4.0 8.56
	7.0 12.87
	9.0 22.80
n-Octanol/water partition coefficient	<u>pH</u> <u>log K_{ow}</u>
	5.88 (distilled water) 0.29
	4.0 -0.16
	7.0 -2.50
	9.0 -2.98
	4 -0.3

The required chemistry data for Rotam Imazamox 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 sufficient to support the registration of Rotam Imazamox Technical.

References

PMRA Document Number	References
3219917	2021, Justification of Impurities of Imazamox Technical, DACO: 2.11.4 CBI
3219919	2021, Preliminary Analysis and Enforcement Analytical Method of One Impurity in Imazamox Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3219920	2021, Determination of Solvent impurities in Five Representative Production Batches of Imazamox Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3219921	2021, Analysis of Five Representative Production Batches of Imazamox Technical Grade Active Ingredient (TGAI) to Identify and Quantify IMAZAMOX and Its Associate Impurities, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.2 CBI
3219922	2021, Analysis of Five Representative Production Batches of Imazamox Technical Grade Active Ingredient (TGAI) to Identify and Quantify Imazamox and Its Associate Impurities, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,3.1.2 CBI
3219923	2021, Study on the Physico Chemical Properties of Imazamox Technical, DACO: 2.14.11,2.14.4,2.14.7,2.14.9
3219924	2021, Study on the Physico Chemical Properties of Imazamox Technical, DACO: 2.14.11,2.14.4,2.14.7,2.14.9
3219925	2021, Study on the Physico Chemical Properties of Imazamox Technical, DACO: 2.14.1,2.14.10,2.14.12,2.14.13,2.14.14,2.14.2,2.14.8,2.16
3219926	2021, Study on the Physico Chemical Properties of Imazamox Technical, DACO: 2.14.1,2.14.10,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,2.14.6,2.14.8,2.16,83 0.7000
3230370	2021, Manufacturing Process of Imazamox Technical - Revised, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
3274270	2021, Determination of Impurity 7 in five representative production batches of Imazamox Technical, DACO: 2.13.4 CBI
3354274	2022, Clarification Response for Rotam Imazamox Technical - Sub. #2021-1552, DACO: 2.13.3

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