

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2020-4211

Application: Changes to Technical Grade Active Ingredient Product Chemistry

- New Source (site) same registrant

Product: ADAMA Quizalofop-P-ethyl Technical

Registration Number: 33340

Active ingredient (a.i.): Quizalofop-P-ethyl PMRA Document Number (: 3400340

Purpose of Application

The purpose of this application was to register two new sources of quizalofop-P-ethyl for ADAMA Quizalofop-P-ethyl Technical.

Chemistry Assessment

Common Name: Quizalofop-P-ethyl

IUPAC* Chemical Name: Ethyl (2R)-2-[4-(6-chloroquinoxalin-2-

loxy)phenoxy]propionate

CAS† Chemical Name: Ethyl (2R)-2-[4-[(6-chloro-2-

quinoxalinyl)oxy]phenoxy]propanoate

ADAMA Quizalofop-P-ethyl Technical has the following properties:

Property	Result
Colour and physical state	Orange to Brown solid
Nominal concentration	95.67%
Odour	Slight odour
Density	1.36 g/cm ³ at 20-25°C
Vapour pressure	$5.6 \times 10^{-3} \text{ Pa at } 90^{\circ}\text{C}$
	$1.6 \times 10^{-2} \text{Pa} \text{ at } 100^{\circ} \text{C}$
	$1.0 \times 10^{-1} \text{ Pa at } 120^{\circ}\text{C}$
	6.1×10^{-7} Pa at 20°C (extrapolated)
	1.3×10^{-6} Pa at 25°C (extrapolated)



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

Property	Result
pН	6 - 7
Solubility in water	0.52 mg/L at 20°C
n-Octanol/water partition coefficient	$log K_{ow} = 4.37$

The required chemistry data for ADAMA Quizalofop-P-ethyl 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 it sufficient to support the registration of two new sources of quizalofop-P-ethyl for ADAMA Quizalofop-P-ethyl Technical.

References

PMRA	References
Document	
Numbers	
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	Octanol / Water), DACO: 2.14.11 CBI
2844544	2008, Quizalofop-p-ethyl UV, ID and MS Spectra, DACO: 2.14.12 CBI
2844545	2008, Quizalofop-P-ethyl Determination of melting point/melting range, boiling
	point/ boiling range, DACO: 2.14.4,2.14.5
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	2.14.7
2844548	2016, Quizalofop-p-ethyl (technical): Determination of the Solubility in Organic
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	Grade Material, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3346978	2021, Preliminary (5-Batch) Analysis Testing of Quizalofop-p-ethyl TC, DACO:
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3346980	2016, Determination of Active Content, [CBI Removed] in Quizalofop-P-ethyl,
	DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3346981	2022, Manufacturing Process of Quizalofop-P-ethyl Technical Grade Active
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3346982	2020, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-P-
	ethyl TC, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3346983	2022, Preliminary Analysis and Validation of Analytical Method for [CBI
	Removed] in Quizalofop-P-Ethyl 95% Tech, DACO: 2.13.1,2.13.2,2.13.3,2.13.4
	CBI
3386794	2022, Analysis of [CBI Removed] in Five Batches of Quizalofop-P-ethyl TC,
	DACO: 2.13.3 CBI

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