

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-2264

Application: Submissions subject to Protection of Proprietary Interests in

Pesticide Data policy-Equivalency/Data Compensation Assessment

Product: Quizalofop Technical

Registration Number: 34944

Active ingredient (a.i.): Quizalofop-p-ethyl

PMRA Document Number: 3472850

Purpose of Application

The purpose of this application was to register a new technical-grade product containing quizalofop-p-ethyl, based on a registered precedent.

Chemistry Assessment

Common Name: Quizalofop-P-ethyl

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

yl)oxy|phenoxy|propionate

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

quinoxalinyl)oxy]phenoxy]propanoate

Quizalofop Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	97.5%
Odour	Odourless
Density	1.3 – 1.4 g/mL at 20°C
Vapour pressure	1.10×10^{-4} - 9.67×10^{-2} mPa at 20° C 1.78×10^{-4} - 1.72×10^{-1} mPa at 25° C 4.00×10^{-4} mPa at 40° C
pН	5 - 7
Solubility in water	0.38 - 0.88 mg/L



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

Property	Result
n-Octanol/water partition coefficient	$\log \text{Kow} = 4.7$

The required chemistry data for Quizalofop 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 Quizalofop Technical.

References

PMRA Document	
Number	Reference
3360483	2021, Manufacturing Process [CBI REMOVED], DACO:
	2.11.1,2.11.2,2.11.3,2.11.4 CBI
3360484	2021, Chemical Composition of Five Batches of Quizalofop-P-ethyl Technical [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3 CBI
3360485	2021, Formation of Organic Impurities [CBI REMOVED], DACO: 2.11.2,2.11.4 CBI
3360487	2020, Manufacture Process and Synthesis Pathway [CBI REMOVED], DACO: 2.11.1,2.11.2,2.11.3 CBI
3360498	2021, Quizalofop-P-ethyl Technical-Analysis of impurities in five batches [CBI REMOVED], DACO: 2.13.3 CBI
3360499	2022, Partition Coefficient (n-octanol/water) Test of Quizalofop-P-ethyl TC [CBI REMOVED], DACO: 2.14.11,2.14.12
3360500	2022, Dissociation Constants in Water Test of Quizalofop-P-ethyl TC [CBI REMOVED], DACO: 2.14.10
3360523	2017, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-pethyl TC (Confidential Attachment) [CBI REMOVED], DACO:
3360524	2.13.1,2.13.2,2.13.3,2.13.4 CBI 2017, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-p-
3360525	ethyl TC [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI 2017, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-p-
3360526	ethyl TC [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI 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
3360527	2018, Five - Batch Analysis of Quizalofop-p-ethyl TC (F1V1), DACO: 2.13.1,2.13.2,2.13.3 CBI
3360528	2019, Physical and Chemical Properties Analysis of Quizalofop-p-ethyl 98% TC [CBI REMOVED], DACO:
	2.14.1,2.14.13,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8,2.14.9,830.7000
3360530	2021, Manufacturing Process [CBI REMOVED], DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3360531	2018, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-pethyl TC [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3360532	2019, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-pethyl TC [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3360533	2020, Preliminary Analysis and Enforcement Analytical Method of Quizalofop-pethyl TC [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3378847	2021, Determination of [CBI REMOVED] in five batches of Quizalofop-P-ethyl
3378848	Technical grade samples, DACO: 2.13.4 CBI 2020, Quizalofop-P-ethyl Technical: Laboratory Study of Appearance (Physical State Colour and Odour). DACO: 2.14.1.2.14.2.2.14.3
3378849	State, Colour and Odour), DACO: 2.14.1,2.14.2,2.14.3 2021, Quizalofop-P-ethyl Technical: Laboratory Study of Appearance (Physical State, Colour and Odour) - Amendment, DACO: 2.14.1,2.14.2,2.14.3

3378850	2020, Quizalofop-P-ethyl Technical: Laboratory Study of Melting Point, DACO: 2.14.4
3378851	2020, Quizalofop-P-ethyl Technical: Laboratory Study of Density, DACO: 2.14.6
3378852	2020, Quizalofop-P-ethyl Technical: Laboratory Study of Water Solubility,
	DACO: 2.14.7
3378853	2021, Quizalofop-P-ethyl Technical: Laboratory Study of Solubility in Organic
	Solvents, DACO: 2.14.8
3378854	2021, Quizalofop-P-ethyl Technical: Laboratory Study of Vapour Pressure,
	DACO: 2.14.9
3378855	2021, Quizalofop-P-ethyl Technical: Laboratory Study of Partition Coefficient (n-
	octanol/water), DACO: 2.14.11
3378856	2021, Quizalofop-P-ethyl Technical: Accelerated Storage Stability at 54+/-2C for
	14 days, DACO: 2.14.13,2.14.14
3378857	2021, Quizalofop-P-ethyl Technical: Laboratory Study of pH, DACO:
	2.14.15,830.7000
3378858	2019, Chemical and Physical Characterization of Quizalofop-P-ethyl TC: Color,
	Physical State, Odor, Accelerated Storage Stability, Melting Point, Partition
	Coefficient, Solubility, pH, Density, Dissociation Constant, UV-VIS, Vapor
	Pressure and Oxidation/Reduction, DACO:
	2.14.1,2.14.10,2.14.11,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,
	2.14.8,830.7000
3427753	2022, Letter of confirmation, DACO: 2.13.3 CBI
3427754	2023, Quizalofop-P-ethyl Technical Analysis of Active ingredients and impurities
	in five batches, DACO: 2.13.4 CBI
3462132	2023, Manufacturing Process for Quizalofop Technical [CBI REMOVED],
	DACO: 2.11.3 CBI
3462133	2023, Certificate of Composition of Quizalofop Technical [CBI REMOVED],
	DACO: 2.12 CBI
3462134	2023, Analysis Certificate [CBI REMOVED], DACO: 2.12 CBI
3462135	2023, Certificate of Analysis [CBI REMOVED], DACO: 2.12 CBI
3462136	2023, Clarification, DACO: 2.11.3,2.12,2.13.3 CBI
3462137	2023, Amendment for Quizalofop-P-ethyl Technical-Analysis of impurities in
	five batches, DACO: 2.13.3 CBI
3468997	2023, Historical Quality Control Data for Quizalofop-P-ethyl Technical, DACO:
	2.12 CBI

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