

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2021-4232  
**Application:** New Technical Grade Active Ingredient (Product Chemistry) –  
 New Source (Site) New Registrant  
**Product:** Imazapyr TC Technical Herbicide  
**Registration Number:** 34834  
**Active ingredient (a.i.):** Imazapyr  
**PMRA Document Number :** 3445920

### Purpose of Application

The purpose of this application was to register Imazapyr TC Technical Herbicide, a new source of the active ingredient imazapyr.

### Chemistry Assessment

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

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Imazapyr TC Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.5%
Odour	Slight odour of acetic acid
Bulk Density at 25°C	0.34 g/mL
Vapour pressure	< 0.013 mPa
pH	2.7 (1% aqueous)
Solubility in water	9.74 g/L at 15°C 11.3 g/L at 25°C
n-Octanol/water partition coefficient	Log $K_{ow}$ = 0.11 ( $K_{ow}$ = 1.3)

The required chemistry data for Imazapyr TC Technical Herbicide 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 Imazapyr TC Technical Herbicide.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3262848	2021, Five-Batch Analysis of Imazapyr TC - Validation of Analytical Methodology for the Assay of Active Ingredient and Impurities in Imazapyr TC and Subsequent 5-Batch Analysis of the Test Item, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3262849	2021, Imazapyr TC TGAI Five-Batch Analysis of Imazapyr TC, [Privacy Info Removed] Final Report, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3318941	2022, Five Batch Analysis of Imazapyr Technical - Residual Solvent Test [CBI Removed], DACO: 2.13.4 CBI
3444632	2021, Manufacturing Process of Imazapyr TC (2023-03-10) - Deficiency Response, DACO: 2.11.3,2.11.4 CBI

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