

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2022-3167  
**Application:** New TGAI (Product Chemistry) – New Source (Site)  
 New Registrant  
**Product:** Imazamox FC Technical Herbicide  
**Registration Number:** 34926  
**Active ingredient (a.i.):** Imazamox  
**PMRA Document Number:** 3495909

### Purpose of Application

The purpose of this application was to register Imazamox FC Technical Herbicide, a new source of the active ingredient imazamox, based on a registered precedent product.

### 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

Imazamox FC Technical Herbicide has the following properties:

Property	Result										
Colour and physical state	Off-white Solid										
Nominal concentration	97.63%										
Odour	Odourless										
Density	1.39 g/mL										
Vapour pressure	< 1.3 x 10 <sup>-2</sup> mPa										
pH	2.35										
Solubility in water	<table border="0"> <tr> <td><u>pH</u></td> <td><u>Solubility (g/L)</u></td> </tr> <tr> <td>5</td> <td>116</td> </tr> <tr> <td>7</td> <td>&gt; 626</td> </tr> <tr> <td>9</td> <td>&gt; 628</td> </tr> <tr> <td>Deionized water</td> <td>4.160 (20 °C)</td> </tr> </table>	<u>pH</u>	<u>Solubility (g/L)</u>	5	116	7	> 626	9	> 628	Deionized water	4.160 (20 °C)
<u>pH</u>	<u>Solubility (g/L)</u>										
5	116										
7	> 626										
9	> 628										
Deionized water	4.160 (20 °C)										

Property	Result	
n-Octanol/water partition coefficient	<u>pH</u>	<u>log Kow</u>
	5	-1.03
	7	-2.4

The required chemistry data for Imazamox FC 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 Imazamox FC Technical Herbicide.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3370617	2022, 2.13.1-4 Imazamox TGAI 5BA, [CBI Removed] Final Report, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3370618	2022, 2.13.4 Imazamox TGAI 5BA [CBI Removed], [CBI Removed], DACO: 2.13.4 CBI
3485072	2023, Manufacturing Process Impurity Formation Discussion Imazamox TC 2023.07.12 Deficiency Response, DACO: 2.11.3,2.11.4 CBI

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