

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2020-0622  
**Application:** New TGAI Product Chemistry, New Source Same Registrant  
**Product:** Acetamiprid Technical Insecticide  
**Registration Number:** 27125  
**Active ingredient (a.i.):** Acetamiprid  
**PMRA Document Number:** 3230151

### Purpose of Application

The purpose of this application was to add new manufacturing sites for the technical product, Acetamiprid Technical Insecticide.

### Chemistry Assessment

**Common Name:** Acetamiprid  
**IUPAC\* Chemical Name:** (*E*)-*N*<sup>1</sup>-[(6-chloro-3-pyridyl)methyl]-*N*<sup>2</sup>-cyano-*N*<sup>1</sup>-methylacetamidine  
**CAS† Chemical Name:** (1*E*)-*N*-[(6-chloro-3-pyridinyl)methyl]-*N*'-cyano-*N*-methylethanimidamide

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Acetamiprid Technical Insecticide has the following properties:

Property	Result
Colour and physical state	White to pale yellow
Nominal concentration	99.5%
Odour	No odour
Density	1.330 g/mL
Vapour pressure	$< 1 \times 10^{-6}$ Pa
pH	6.08 (1 % aqueous solution)

Property	Result										
Solubility in water	<table> <tr> <td>pH</td><td><u>Solubility (g/L)</u></td></tr> <tr> <td>distilled water</td><td>4.25</td></tr> <tr> <td>5</td><td>3.48</td></tr> <tr> <td>7</td><td>2.95</td></tr> <tr> <td>9</td><td>3.96</td></tr> </table>	pH	<u>Solubility (g/L)</u>	distilled water	4.25	5	3.48	7	2.95	9	3.96
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n-Octanol/water partition coefficient	log K <sub>ow</sub> = 0.80										

The required chemistry data for Acetamiprid Technical Insecticide 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 addition of the new manufacturing sites for Acetamiprid Technical Insecticide.

### **Additional Information Being Requested**

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production at the approved manufacturing site will be required as post-market information after registration.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3091969	2019, Acetamiprid (Code No. NI-25) TGAI Product Identity and Composition, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3091970	2020, Acetamiprid (Code No. NI-25) TGAI Product Identity and Composition, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3091971	2019, Acetamiprid (Code No. NI-25) TGAI Product Identity and Composition, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3091973	2020, Validation of Analytical Method for [CBI Removed] in Technical Grade Acetamiprid, DACO: 2.13.1 CBI
3091976	2020, Validation of Analytical Method for [CBI Removed] in Technical Grade Acetamiprid, DACO: 2.13.1 CBI
3219794	2021, Response to Deficiencies for Acetamiprid Technical Insecticide, [CBI Removed], DACO: 2.11,2.11.3,2.11.4,2.13.1,2.13.3,2.13.4 CBI

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