

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2019-6230  
**Application:** New TGAI Product Chemistry-New Source (site), same registrant  
**Product:** (N) 6-Benzyladenine Technical Grade Active Ingredient  
**Registration Number:** 25321  
**Active ingredient (a.i.):** 6-Benzylaminopurine (or 6-Benzyladenine)  
**PMRA Document Number:** 3170386

### Purpose of Application

The purpose of this application was to add a new source of 6-benzylaminopurine (or 6-benzyladenine) to the registered technical grade product, (N) 6-Benzyladenine Technical Grade Active Ingredient, Reg. No. 25321.

### Chemistry Assessment

**Common Name:** 6-Benzyladenine or 6-Benzylaminopurine  
**IUPAC\* Chemical Name:** *N*-benzyladenine or *N*-benzyl-7*H*-purin-6-amine  
**CAS† Chemical Name:** *N*-(phenylmethyl)-1*H*-purin-6-amine

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

(N) 6-Benzyladenine Technical Grade Active Ingredient has the following properties:

Property	Result	
Colour and physical state	White powder	
Nominal concentration	99.3%	
Odour	Odourless	
Density	0.5 g/mL at 20°C	
Vapour pressure	0.0006 mPa	
pH	5.9	
Solubility in water	76 mg/L at 25°C	
n-Octanol/water partition coefficient	<u>pH</u>	<u>Log K<sub>ow</sub></u>
	5	2.13
	7	2.19

The required chemistry data for (N) 6-Benzyladenine Technical Grade Active Ingredient 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 register the new source for (N) 6-Benzyladenine Technical Grade Active Ingredient.

## References

### PMRA

#### Document

Number	Reference
3051508	2019, 6-Benzyladenine: Product identity, manufacturing process, and formation of unintentional ingredients, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
3051510	2019, 6-BA (Source A): Batch analysis, DACO: 2.13.1, 2.13.2, 2.13.3,2.13.4 CBI
3167255	2020, Discussion of formation of 6-BA impurities [CBI removed], DACO: 2.11.4 CBI
3167256	2019, 6-BA: Method validation, DACO: 2.13.1
3167257	2019, 6-BA: Method validation, DACO: 2.13.1 CBI
3167258	2020, Manufacturing date & lot size, DACO: 2.13.3

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