



Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2011-4657
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: DBNPA Technical
Registration Number: 31184
Active ingredients (a.i.): 2,2-dibromo-3-nitrilopropionamide
PMRA Document Number: 2360576

Background

The source of 2,2-dibromo-3-nitrilopropionamide used to determine chemical equivalence was Registration Number 24353.

Purpose of Application

The purpose of this application was to register a new source of the active ingredient, 2,2-dibromo-3-nitrilopropionamide, by a different Registrant.

Chemistry Assessment

Accepted Name: 2,2-dibromo-3-nitrilopropionamide
IUPAC* Chemical Name: 2,2-dibromo-2-cyanoacetamide
CAS† Chemical Name: Acetamide, 2,2-dibromo-2-cyano-

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

DBNPA Technical has the following properties:

Property	Result
Colour and physical state	Off-white crystalline solid
Nominal concentration	98.8%
Odour	Mild pungent odour
Density @ 25°C	1.341-1.375 g/cm ³
Vapour pressure @ 25°C	0.12 Pa
pH	4.43 (1% solution)
Solubility in water	15.48 g/L
n-Octanol/water partition coefficient (K _{ow})	Log K _{ow} = 0.77

The chemistry requirements for DBNPA Technical have been fulfilled.

Health and Environmental Assessments

As the new source of 2,2-dibromo-3-nitrilopropionamide is chemically equivalent to the registered source, the health and environmental risk profiles are expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

Value Assessment

A value assessment is not required for technical grade active ingredient products.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that it can support the registration of DBNPA Technical.

References

Studies/Information Provided by the Applicant

PMRA No.	Title
2109791	2011, DBNPA Technical, DACO: 2.0,2.1,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.4
2109793	2011, DBNPA Technical, DACO: 2.0,2.1,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.4 CBI
2109797	2011, Preliminary Analysis, DACO: 2.12,2.13.1,2.13.2,2.13.3,2.13.4 CBI
2109798	2011, Preliminary Analysis, DACO: 2.12,2.13.1,2.13.2,2.13.3,2.13.4
2109799	2007, Bio-Clear 1000, DACO: 2.14,2.14.1,2.14.13,2.14.2,2.14.3,2.14.4,2.14.6
2109800	2011, Waiver Document, DACO: 2.14.10,2.14.5,2.14.8
2109801	2007, Accelerated Storage Stability Study, DACO: 2.14.14
2109802	2007, Physical and Chemical Characteristics Oxidation/Reduction, DACO: 2.16
2151670	2012, Physical and Chemical Characteristics: Color, Physical State, Odor, Stability To Normal and Elevated Temperature- Metals and Metal Ions, pH, UV/Visible Absorption, Melting Point, Density/Bulk Density, Dissociation Constant, Partition Coefficient and

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