

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2021-6337  
**Application:** Application subject to the Protection of Proprietary Interests in Pesticide Data Policy  
**Product:** Nufarm Fludioxonil Technical  
**Registration Number:** 34908  
**Active ingredient (a.i.):** Fludioxonil  
**PMRA Document Number:** 3456629

### Purpose of Application

The purpose of this application was to register a new technical-grade active ingredient, Nufarm Fludioxonil Technical, based on precedent.

### Chemistry Assessment

**Common Name:** Fludioxonil  
**IUPAC\* Chemical Name:** 4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1*H*-pyrrole-3-carbonitrile  
**CAS† Chemical Name:** 4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1*H*-pyrrole-3-carbonitrile

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Nufarm Fludioxonil Technical has the following properties:

Property	Result
Colour and physical state	Faint yellow, solid powder
Nominal concentration	99.3%
Odour	Odourless
Density	1.509 – 1.546 g/mL at 20°C
Vapour pressure	$1.85 \times 10^{-5}$ mPa at 25°C
pH	7.62 (1% solution)
Solubility in water	0.958 mg/L (pH 6.77)
n-Octanol/water partition coefficient	$\log K_{ow} = 2.969$ at 25°C, pH 7.11

The required chemistry data for Nufarm Fludioxonil Technical 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 register Nufarm Fludioxonil Technical.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3296596	2020, Qualitative and quantitative profile of fludioxonil (five batch analysis), DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3296597	2020, Purity of Fludioxonil and analytical method validation for active ingredient content Fludioxonil, DACO: 2.12,2.12.1 CBI
3296598	2021, Declaration on batch sizes of fludioxonil TC in 5 batch analysis report, DACO: 2.13.3
3296599	2012, Physical and chemical characterization of fludioxonil TGAI, CA3033, DACO: 2.14,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8,830.7000
3296607	2020, Solubility in water and organic solvents (methanol and n-hexane) of fludioxonil, DACO: 2.14.7,2.14.8
3296608	2020, Partition coefficient (N-Octanol/water) of fludioxonil, DACO: 2.14.11
3296609	2020, Vapor pressure of fludioxonil, DACO: 2.14.9
3345845	2022, Fludi Tech_DACO 2.11_Product ID_Vision_220418, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.2,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3394427	2022, Analytical method validation and content of [CBI REMOVED] in fludioxonil, DACO: 2.13.4 CBI

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