

## Evaluation Report for Category B, Subcategory B.1.2 Application

**Application Number:** 2007-4605  
**Application:** Category B, Subcategory B.1.2 Application (New or Changes TGAI)  
**Product:** MANA Fenoxaprop-P-ethyl Technical Herbicide  
**Registration Number:** 29250  
**Active ingredients (a.i.):** fenoxaprop-P-ethyl  
**PMRA Document Number:** 1723381

### Background

The original source of fenoxaprop-P-ethyl technical grade active ingredient, “Fenoxaprop-P-Ethyl Technical Herbicide” (Reg. No. 21903), was first registered on March 22 1991.

### Purpose of Application

The purpose of this application is to register a new technical source of fenoxaprop-P-ethyl.

### Chemistry Assessment

Common Name: Fenoxaprop-P-ethyl  
IUPAC Chemical Name: Ethyl (R)-2-[4-(6-chloro-1,3-benzoxazol-2-yloxy)phenoxy] propionate or  
Ethyl (R)-2-[4-(6-chlorobenzoxazol-2-yloxy)phenoxy] propionate  
CAS Chemical Name: Ethyl (2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoate

MANA Fenoxaprop-P-ethyl Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White brittle powder
Nominal concentration	96.23%
Odour	Faint
Bulk density	Pour: $0.314 \pm 0.004$ g/mL (at 20°C) Tap: $0.413 \pm 0.004$ g/mL (at 20°C)
Vapour pressure	$3.0 \times 10^{-2}$ mPa (at 25°C)
pH	N/A

Property	Result
Solubility in water	615 µg/L (at 10°C) 801 µg/L (at 20°C) 1172 µg/L (at 30°C)
n-Octanol/water partition coefficient	Log P <sub>ow</sub> = 4.58 ± 0.10 (at pH 5.56)

The chemistry requirements for MANA Fenoxaprop-P-ethyl Technical Herbicide have been completed.

### Health and Environmental Assessment

This new source of fenoxaprop-p-ethyl has been found to be chemically equivalent to the registered source (Reg. No. 21903). Therefore, the health and environmental risk profile of MANA Fenoxaprop-P-Ethyl Technical Herbicide is expected to be similar to that of the original registered source.

### Value assessment

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

### Conclusions

The PMRA has completed an evaluation of the subject application and has determined that MANA Fenoxaprop-P-Ethyl Technical Herbicide is eligible for conditional registration, with registration being contingent upon fulfilling the following requirements:

Submission of studies as required under product specific registration policy.

### References List

#### 7.1.1 Studies/Information Provided by Applicant/Registrant

PMRA Document Number	Reference
1444245	2007, Chemistry Requirements for the Registration of a Technical Grade of Active Ingredient (TGAI) or an Integrated System Product, NA, MRID: NA, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9
1444246	2007, Fenoxaprop-P-Ethyl Technical - Product Properties, 9009752, MRID: NA, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1 CBI
1444247	2007, Fenoxaprop-P-ethyl Technical - Five Lots Analysis and Method Validation, 07-01/11, MRID: NA, DACO: 2.13.1,2.13.2,2.13.3,2.13.4

- 1444248 2007, Fenoxaprop-P-ethyl Technical - Physical and Chemical Characteristics: Color, Physical State, Odor, Melting Point, Bulk Density and Partition Coefficient, 20793, MRID: NA, DACO:2.14.1,2.14.11,2.14.2,2.14.3,2.14.4,2.14.6
- 1444250 2007, Fenoxaprop-p-Ethyl - Dissociation Constant - Derogation, NA, MRID: NA, DACO: 2.14.10
- 1444251 2007, Fenoxaprop-p-Ethyl - UV/Visible Spectrum, NA, MRID: NA, DACO: 2.14.12
- 1444253 2007, Daco 2.14.13 - Stability (Temperature, Metals), NA, MRID: NA, DACO: 2.14.13
- 1444254 2007, Storage Stability and Corrosion Characteristics of Fenoxaprop-P-ethyl Technical - Storage at 54°C for 14 Days, F07-01/16, MRID: NA, DACO: 2.14.13,2.14.14
- 1444255 2007, Daco 2.14.5 - Boiling Point / Boiling Range, NA, MRID: NA, DACO: 2.14.5
- 1444257 2007, Fenoxaprop-p-Ethyl - Water Solubility (Column Elution Method), CWS11324, MRID: NA, DACO: 2.14.7
- 1444258 2007, Fenoxaprop-p-Ethyl - Solubility in Organic Solvents, CWS11324, MRID: NA, DACO: 2.14.8
- 1444260 2007, Fenoxaprop-p-Ethyl - Vapour Pressure, PSF/0006, MRID: NA, DACO: 2.14.9
- 1444261 2007, Daco 2.15 - Sample(s) of Analytical Standards and ROC, NA, MRID: NA, DACO: 2.15
- 1444262 2007, Fenoxaprop-p-ethyl - Explosive Properties- Derogation, NA, MRID: NA, DACO: 2.16
- 1590316 2008, Fenoxaprop-P-ethyl Technical Five Lots Analysis and Method Validation (Amendment to final report 909598 (S-1), 07-01/11, MRID: NS, DACO: 2.13.1,2.13.3 CBI

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