

## Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

**Application Number:** 2014-3607  
**Application:** B.1.1 - New Source Same Registrant  
B.1.3 - New Specifications  
**Product:** Technical MCPA 2-Ethylhexyl Ester  
**Registration Number:** 19086  
**Active ingredients (a.i.):** MCPA (Present as Esters)  
**PMRA Document Number :** 2584432

### Purpose of Application

The purpose of this application was to add a new source of manufacture of Technical MCPA 2-Ethylhexyl Ester.

### Chemistry Assessment

**Common Name:** MCPA-2-ethylhexy  
**IUPAC\* Chemical Name:** *rac*-(2*R*)-2-ethylhexyl (4-chloro-2-methylphenoxy)acetate  
**CAS† Chemical Name:** 2-ethylhexyl 2-(4-chloro-2-methylphenoxy)acetate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

MCPA 2-Ethylhexyl Ester has the following properties:

Property	Result
Colour and physical state	Brown non-viscous liquid
Nominal concentration	61.5 % (acid equivalent)
Odour	Strong ester odour
Density	1.064 – 1.074 g/mL
Vapour pressure	0.27 – 13 mPa (at 18 – 45°C)
pH	3.5 (saturated in water)
Solubility in water	<0.125 mg/L in pH 5 – 9
n-Octanol/water partition coefficient	log Kow = 6.8

The chemistry requirements for Technical MCPA 2-Ethylhexyl Ester 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**

PMRA has reviewed information provided in support a new source of manufacture of Technical MCPA 2-Ethylhexyl Ester. Based on this review, a new source of manufacture of Technical MCPA 2-Ethylhexyl Ester is acceptable for registration.

### **References**

- 2576381 2011, Document J-II of Confidential data and information for of the Active Substance MCPA 2-ethylhexylester (MCPA 2-EHE), DACO: 2.11,2.11.2,2.11.3,2.11.4 CBI
- 2575594 2015, Clarification Response, DACO: 0.8
- 2453291 2011, The Analysis of five batches of MCPA 2EH TGAI, DACO: 2.13.3 CBI
- 2575595 2001, Preliminary Analysis of 5 batches of 4-chloro-2-methylphenoxyacetic acid, 2-ethylhexyl ester, DACO: 2.13.3 CBI
- 2575596 2010, Validation of the Analytical Methods for the Determination of the Impurity Content of 4-chloro-2-methylphenoxyacetic acid, 2-ethylhexyl ester (MCPA 2EH) technical grade active ingredient (TGAI), DACO: 2.13.3 CBI

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