

Renewal Assessment Report

beta-cyfluthrin

Volume 3 – B.1 Identity

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Rapporteur Member State: Germany
Co-Rapporteur Member State: Hungary

Version history

When	What

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B.1 Identity

B.1.1 Identity of the active substance

B.1.1.1 Common name proposed or ISO-accepted and synonyms

Beta-cyfluthrin (ISO accepted), no synonyms

B.1.1.2 Chemical name (IUPAC and CA nomenclature)

IUPAC: Cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
or
3-(2,2-dichloro-vinyl)-2,2-dimethyl-cyclopropane-carboxylic acid cyano-(4-fluoro-3-phenoxy-phenyl)-methyl ester

Diastereomer II
(*R*)-cyano(4-fluoro-3-phenoxyphenyl)methyl rel-(1*S*,3*S*)-3-(2,2- dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Diastereomer IV
(*R*)-cyano(4-fluoro-3-phenoxyphenyl)methyl rel (1*S*,3*R*)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano (4-fluoro-3-phenoxyphenyl)methyl ester

Diastereomer II
cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (*R*)-cyano(4-fluoro-3-phenoxyphenyl)methyl ester, (1*S*,3*S*)-rel-

Diastereomer IV
cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (*R*)-cyano(4-fluoro-3-phenoxyphenyl)methyl ester, (1*S*,3*R*)-rel-

B.1.1.3 Producer's development code numbers

The technical material has the Specification No.: 02000006582 (company code),
Supply Chain/UVP No.: 06075770 (company code) from Bayer CropScience AG.

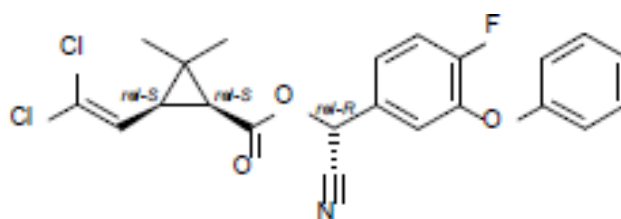
Diastereomer II: AE 1421342
Diastereomer IV: AE 1421344

B.1.1.4 CAS, EC and CIPAC numbers

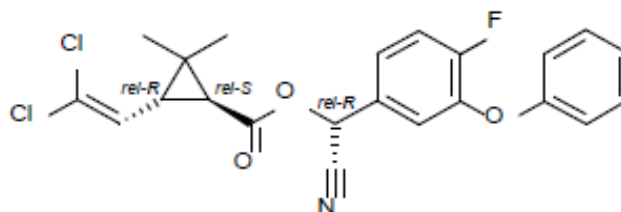
CAS: 68359-37-5 (unstated stereochemistry)
EC (EEC): 269-855-7
CIPAC: 482

B.1.1.5 Molecular and structural formulae, molecular mass

Molecular formula: $C_{22}H_{18}Cl_2FNO_3$
Molecular mass: 434.3 g/mol
Structural formula: Diastereomer II



Diastereomer IV



B.1.1.6 Method of manufacture (synthesis pathway) of the active substance

Confidential information, see Volume 4.

B.1.1.7 Specification of purity of the active substance in g/kg

Minimum purity 965 g/kg
Diastereomer II 300 - 400 g/kg
Diastereomer IV 570 - 670 g/kg

B.1.1.8 Identity and content of additives (such as stabilisers) and impurities

B.1.1.8.1 Additives

Confidential information, see Volume 4.

B.1.1.8.2 Significant impurities

Confidential information, see Volume 4.

B.1.1.8.3 Relevant impurities

There are no relevant impurities in the technical material.

B.1.1.9 Analytical profile of batches

Confidential information, see Volume 4.

B.1.2 References relied on

See Volume 4.