

Cypermethrin

Common name: cypermethrin

IUPAC name:

(*RS*)- α -cyano-3-phenoxybenzyl(1*RS*,3*RS*;1*RS*,3*SR*)-3-(2,2-dichlorovinyl)-2,2-dimethyl = cyclopropanecarboxylate

Roth: (*RS*)- α -cyano-3-phenoxybenzyl(1*RS*)-*cis-trans*-3-(2,2-dichlorovinyl) -2,2-dimethyl = cyclopropanecarboxylate

Chemical Abstracts name: cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethyl = cyclopropanecarboxylate

Molecular weight: 416.3

Molecular formula: C₂₂H₁₉Cl₂NO₃

Formulation: 5% EC、5% ME

Applications

Biochemistry

Acts on the nervous system of the insect, and disturbs the function of neuros by interaction with the sodium channel.

Mode of action

Non-systemic insecticide with contact and stomach action. Also exhibits anti-feeding action. Good residual activity on treated plants.

Uses

Control of a wide range of insects, especially Lepidoptera, but also Coleoptera, Diptera, Hemiptera, and other classes, in fruit(including citrus), vines, vegetables, potatoes, cucurbits, lettuce, capsicums, tomatoes, cereals, maize, soya beans, cotton, coffee, rice, pecans, oilseed rape, beet, ornamentals, forestry,etc. Applied at 45-90g/ha.

5% EC characteristics:

Item	Index
Appearance	Even liquid
Content, %	≥ 5
Water, %	≤ 0.5
PH value	4.0-6.0

5% ME characteristics:

Item	Index
Appearance	Clear liquid
Content, %	≥ 5
Clear temperature range, °C	0-50
PH value	3.0-5.0

TC characteristics:

Item	Index		
	Best grade	First grade	Standard product
Content, % \geq	95.0	92.0	90.0
Water, % \leq	0.1	0.3	0.5
Acid(calculated by H ₂ SO ₄), % \leq	0.1	0.2	0.3

Storage and transportation:

Put in a ventilated and dry place. Keep away from food, seed and feed. Do not touch eyes, skin and be absorbed by mouth and nose..