TECHNICAL DATA SHEET

Trade name : PRALLETHRIN

CHEMICAL IDENTIFICATION

Nomenclature

ISO 1750	:	Prallethrin (mixture of stereoisomers)
IUPAC	:	(1S)-2-methyl-4-oxo-3-(prop-2-yn-1-yl)cyclopent-2-en-1-yl (1R)-cis,trans- -2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate
CAS (9^{th} CI)	:	Cyclopropanecarboxyl acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-(1*S*)-2-methyl-4-oxo-3-(2-propinyl)-2-cyclopenten-1-yl ester, (1R)
Others	:	d-cis-trans-chrysanthemates of d-prallethrolone

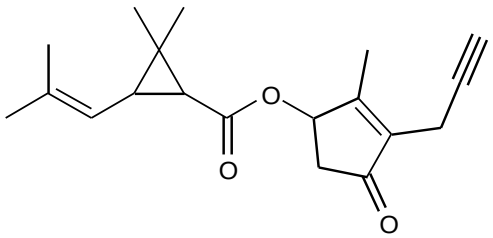
CAS number : 23031-36-9 (unresolved stereochemistry)
(d-cis,trans Prallethrin of d-isomer: 204244-85-9,
d-trans of d-isomer: 103065-19-6)

EC number : 245-387-9

Molecular formula : $C_{19}H_{24}O_3$

Molecular weight : 300.40

Structural formula (unspecified stereochemistry) :



PRODUCT SPECIFICATIONS

Purity (ENDQC-91 method by HRGC)	:	**93.0 % w/w min.**
Isomeric distribution		
trans-chrysanthemates	:	80.0 % min.*
d-chrysanthemates	:	96.0 % min.*
d-prallethronyl chrysanthemates	:	98.0 % min.*
Acidity number (ENDQC-96 method)	:	5.0 mg KOH/g max.
Appearance (ENDQC-94 method)	:	Yellow to brown transparent viscous liquid

* Relative % of isomers

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ADDITIONAL INFORMATION

Odour	:	Slightly aromatic
Density	:	1.03 g/cm^3 at 20 °C
Vapour pressure	:	<1.5 x 10^{-7} hPa at 25 °C
Solubility	:	Practically insoluble in water Soluble in most common organic solvents
Partition coefficient (Log Pow)	:	>2.78C

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