

Technical Data Sheet Transfluthrin Technical Material

2022 Environmental Science FR SAS
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2 July 2023

Product Name:	Transfluthrin TC	Specification No.:	102000008838-05
Other name(s):	-	Material No.:	06075800

Identity and content of the active substance

CAS Name: Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (2,3,5,6-tetrafluorophenyl)methyl ester, (1R,3S)-

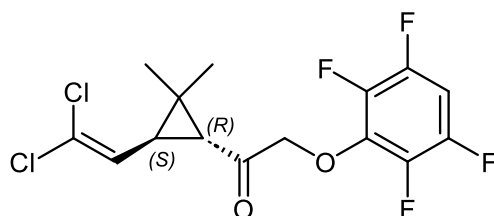
IUPAC Name: 2,3,5,6-Tetrafluorobenzyl (1R,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS No.: 118712-89-3

EC number: 405-060-5

CIPAC No.: 741

Structural Formula:



Molecular formula: C₁₅H₁₂Cl₂F₄O₂

Molecular weight: 371.15 g/mol

Content: min. 98.5 % w/w or 985 g/kg Transfluthrin (1R-trans-isomer only)

Impurities relevant to hazard classification (see Safety Data Sheet):

Toluene: max. 0.3 % (3 g/kg)

(2,3,5,6-tetrafluorophenyl)methanol: max. 0.3 % (3 g/kg)

Relevant impurity (in compliance with WHO specification 741/TC):

Permethric acid anhydride: max. 0.01 % (0.1 g/kg)

Physical and chemical properties

Form:	liquid (solidified melt)
Color:	light yellow to brown
Odour:	weak, characteristic
Freezing Range	21-22 °C
Melting point:	32 °C
Boiling point:	242 °C (1.033 hPa)
Vapour pressure:	2.2 x 10 ⁻⁵ hPa (25 °C)
Volatility (Henry's law constant):	1.2 Pa.m ³ .mol ⁻¹ (20 °C)
Flash Point:	119 °C (1.033 hPa)
Auto-Ignition temperature:	415 °C
Density:	1.3856 g/cm ³ (20°C)
Solubility in water:	0.31 mg/L (20 °C)
Solubility in solvents:	
Acetone:	> 10 kg/L (20 °C)
Dichloromethane:	> 10 kg/L (20 °C)
Dimethyl sulfoxide:	> 6 kg/L (20 °C)
Ethanol:	~ 1.6 kg/L (20 °C)
Ethyl acetate:	> 6 kg/L (20 °C)
n-Hexane:	> 5 kg/L (20 °C)
Toluene:	> 6 kg/L (20 °C)

Please refer to the Safety Data Sheet for further information on physical and chemical properties.

Requirements for storage areas and containers

Store in original container.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

Store in a place accessible by authorized persons only.

Please refer to the Safety Data Sheet for further information on handling and storage.

Signature:

Date: 2 July 2023

Dr. Pierre Hutin

Product Chemistry Manager
Global Regulatory Affairs