

Technical Data Sheet for Epoxiconazole Technical

IDENTITY:

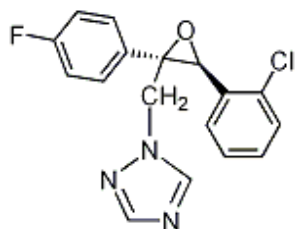
Common name: Epoxiconazole

Chemical name:

(2*RS*,3*SR*)-1-[3-(2-chlorophenyl)-2,3-epoxy-2-(4-fluorophenyl)propyl]-1*H*-1,2,4-triazole
(IUPAC)

Molecular Formula: C₁₇H₁₃ClFN₃O

Structural formula:



Cas No.: 133855-98-8

PHYSICAL AND CHEMICAL PROPERTIES:

Molecular Weight: 329.8

Physical Form: White powder

Technical Purity: 970 g/kg min

Vapor Pressure: <0.01 mPa (20 °C)

Melting point: 136.2-137 °C

Partition coefficient: K_{OW} logP = 3.3 (pH 7)

Density: 1.38 g/ml (25 °C)

Solubility in water and organic solvents: In water 6.63 × 10⁻⁴ g/100ml (20 °C). In acetone 14.4, dichloromethane 29.1, heptane 0.04 (all in g/ 100ml).

Flammability: Non-flammable

Explosivity: Not explosive

USE:

Biochemistry: Inhibition of C-14-demethylase in sterol biosynthesis

Mode of action: Preventive and curative fungicide.

Uses: Broad-spectrum Fungicide, with preventive and curative action, for control of diseases caused by Ascomycetes, Basidiomycetes and Deuteromycetes in bananas, cereals, coffee, rice, corn, peanut and sugar beet.

STORAGE:

Store in a cool, dry, well-ventilated area, out of reach of children. Store in fireproof location. Keep package well closed. Do not store together with strong acids and alkali. Keep away from food, drinks and animal feeding stuff.

SHELF LIFE:

Stable for 2 years under normal storage conditions.

HANDLING PRECAUTIONS:

Handle product in a well-ventilated area. Normal precautions for handling chemicals should be respected. Use personal protective agents. Keep away from heat or ignition sources.

PACKING:

Woven bags, Iron drums, et. Packed according to the customer's requirement