

MOLDOVA STATE UNIVERSITY INSTITUTE OF CHEMISTRY; INSTITUTE OF GENETICS,

PHYSIOLOGY AND PLANT PROTECTION

Scientific Research Laboratories:







Use of (Z)-1-(2,4-dichlorophenyl)-5-methyl-2-(1H-1,2,4-triazol-1-yl)hex-1-en-3-one as an active ingredient against *Alternaria alternata* and *Fusarium aquaeductuum* fungi

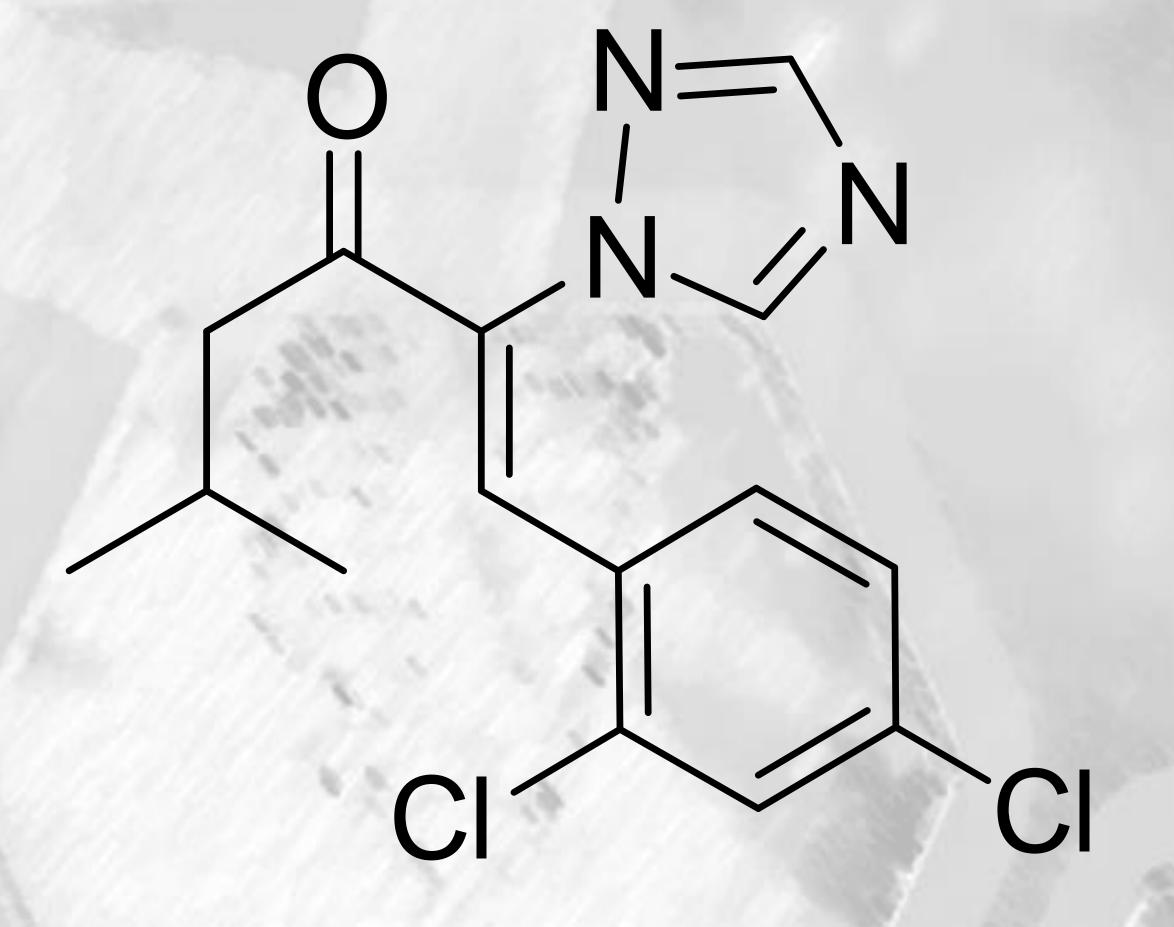
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APPLICATION FIELDS: Chemistry and Agriculture

AIM: Expanding the range of compounds from the class of 1,2,4-triazoles with fungitoxic activity that could be successfully used in agriculture to combat the root rot caused by the A. alternata and F. aquaeductuum fungi.

SOLUTION: It was synthesized the compound (Z)-1-(2,4-dichlorophenyl)-5-methyl-2-(1H-1,2,4-triazol-1-yl)hex-1-en-3-one that is highly active against the phytopathogenic fungi of the A. alternata and F. aquaeductuum species.







Control

Compound (0,01%)

F. aquaeductuum

ADVANTAGES: The compound (Z)-1-(2,4-dichlorophenyl)-5-methyl-2-(1H-1,2,4-triazol-1-yl)hex-1-en-3-one contributes to the increase of the fungitoxic activity in comparison with the closest prior art by 9%...30% for the fungus A. alternata and 10%...24% for F. aquaeductuum.

IMPLEMENTATION STAGE: Laboratory level

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