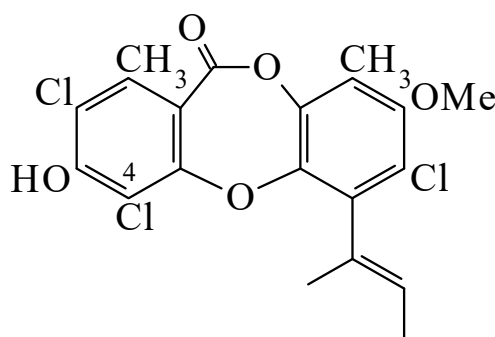




>>Entry Name: Nidulin, 8Cl

Synonym(s): 2,4,7-Trichloro-3-hydroxy-8-methoxy-1,9-dimethyl-6-(1-methyl-1-propenyl)-11*H*-dibenzo[*b,e*][1,4]dioxepin-11-one, 9Cl. Methylustin



CAS Registry Number: 10089-10-8

Related CAS Registry Numbers(s): 1329-04-0

Molecular Formula: C₂₀H₁₇Cl₃O₅

Molecular Weight: 443.709

Accurate Mass: 442.014156

Percentage Composition: C 54.14%; H 3.86%; Cl 23.97%; O 18.03%

Biological Source: Metab. of *Aspergillus nidulans*, *Aspergillus ustus* and *Emericella unguis*

Use/Importance: Antibiotic, inactive against bacteriophages, inhibits the growth of human parasitic fungi

Physical Description: Slender, shiny rods (petrol)

Melting Point: Mp 180°

Solubility: Sol. CHCl₃; BERDY SOL: Sol. CHCl₃, bases; fairly sol. EtOH, hexane, C₆H₆, Et₂O; poorly sol. H₂O

UV: [neutral] λ_{max} 267 (ε 9010) (EtOH) (Berdy)

>>Derivative: Ac

Physical Description: Plates or rods

Melting Point: Mp 167-168°

>>Derivative: Me ether

Physical Description: Long rods

Melting Point: Mp 145°

>>Derivative: O-De-Me

Synonym(s): Nornidulin. Ustin

CAS Registry Number: 33403-37-1

Molecular Formula: C₁₉H₁₅Cl₃O₅

Molecular Weight: 429.683

Accurate Mass: 427.998506

Percentage Composition: C 53.11%; H 3.52%; Cl 24.75%; O 18.62%

Biological Source: From *Aspergillus nidulans*, *Aspergillus ustus* and *Aspergillus unguis*

Physical Description: Plates or prisms (EtOH or C₆H₆/petrol)

Melting Point: Mp 185-187°

Solubility: BERDY SOL: Sol. MeOH, bases, Et₂O; fairly sol. cyclohexane; poorly sol. H₂O, acids, hexane

UV: [neutral] λ_{max} 266 (ε 8120) (MeOH) (Berdy)

>>Derivative: O-De-Me, 4-dechloro

Synonym(s): Deschloronornidulin. Dechloronornidulin. Ustin II

Molecular Formula: C₁₉H₁₆Cl₂O₅

Molecular Weight: 395.238

Accurate Mass: 394.037479

Percentage Composition: C 57.74%; H 4.08%; Cl 17.94%; O 20.24%

Biological Source: Isol. from *Aspergillus nidulans* and *Aspergillus ustus*

Use/Importance: Active against mycobacteria

Physical Description: Needles (MeOH)

Melting Point: Mp 212-214°

Solubility: BERDY SOL: Sol. MeOH, Et₂O, bases; fairly sol. cyclohexane; poorly sol. H₂O, hexane, acids

UV: [neutral] λ_{max} 264 (ε 9810) (MeOH) (Berdy)

References: