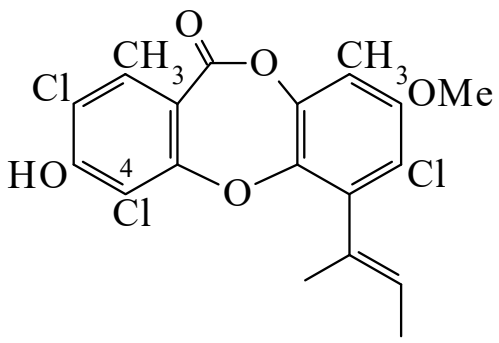
>>**Entry Name: Nidulin,** 8Cl
Synonym(s): 2,4,7-Trichloro-3-hydroxy-8-methoxy-1,9-dimethyl-6-(1-methyl-1-propenyl)-11*H*-dibenzo[*b,e*][1,4]dioxepin-11-one, 9Cl. Methylustin



CAS Registry Number: 10089-10-8
Related CAS Registry Numbers(s): 1329-04-0

Molecular Formula: $C_{20}H_{17}Cl_3O_5$
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. $CHCl_3$; BERDY SOL: Sol. $CHCl_3$, bases; fairly sol. EtOH, hexane, C_6H_6, Et_2O; poorly sol. H_2O
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: $C_{19}H_{15}Cl_3O_5$
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 C_6H_6/petrol)
Melting Point: Mp 185-187°
Solubility: BERDY SOL: Sol. MeOH, bases, Et_2O; fairly sol. cyclohexane; poorly sol. H_2O, 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: $C_{19}H_{16}Cl_2O_5$
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, Et_2O, bases; fairly sol. cyclohexane; poorly sol. H_2O, hexane, acids
UV: [neutral] λ_{max} 264 (ε 9810) (MeOH) (Berdy)

References: