Title (en)

IMIDAZOLE DERIVATIVES.

Title (de)

IMIDAZOLE DERIVATE.

Title (fr)

DERIVES DE L'IMIDAZOLE.

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Application

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Abstract (en)

[origin: WO9401432A1] Novel 4,5-dicyanoimidazole derivatives of formula (I), wherein X is oxygen, sulfur, SO or SO2; R1 is hydrogen, C1-C6alkyl, C1--C6haloalkyl, C1-C6hydroxyalkyl, C1-C6cyanoalkyl, or a C1-C6alkylene substituted by C1-C6alkoxy, C1-C6haloalkoxy, C1-C6alkylthio, C1-C6haloalkylthio, C1-C6alkylsulfinyl, C1-C6haloalkylsulfinyl, C1-C6alkylsulfonyl, C1-C6haloalkylsulfonyl, C1-C6hydroxyalkyl, C1-C6alkyloxycarbonyl, C1-C6alkylcarbonyl, C1-C6alkylcarbonyloxy or by COOH; R2 is hydrogen, halogen, CN, C1-C6alkyl, C1-C6haloalkyl, C1-C6cyanoalkyl, C1-C6hydroxyalkyl, C1-C6alkoxy, C1-C6haloalkoxy, C1-C6alkylthio, C1-C6haloalkylthio or C3-C7cycloalkyl; R3 is hydrogen, halogen, C1-C6alkyl, C1-C6haloalkyl, cyano or nitro; R4 is hydrogen, halogen, nitro, cyano, NCS, C1-C6alkyl, C1-C6haloalkyl, C1-C6alkoxy or C1-C6haloalkoxy; and R5 is hydrogen, halogen, nitro, C1-C6alkyl, C1-C6haloalkyl, C1-C6alkoxy or C1-C6haloalkoxy; or R4 and R5 together form a -O-(CH2)m-O- bridge, wherein m is an integer selected from the group consisting of 1, 2 and 3, with the proviso that R4 and R5 are located at adjacent carbon atoms; including the physiologically tolerable addition compounds, can be used against insects and representatives of the order Acarina that are harmful to animals and plants, as well as against helminths in warm-blooded animals.

Abstract (fr)

L'invention concerne de nouveaux dérivés de la 4,4-dicyanoimidazole de la formule (I). Dans cette formule X représente oxygène, soufre, SO ou SO2; R1 représente hydrogène, C1-C6alkyle, C1--C6haloalkyle, C1-C6hydroxyalkyle, C1-C6cyanoalkyle, ou C1-C6alkylène avec comme substituant un C1-C6alcoxy, C1-C6haloalcoxy, C1-C6alkylthio, C1-C6-haloalkylthio, C1-C6alkylsulfinyle, C1-C6haloalkylsulfinyle, C1-C6alkylsulfonyle, C1-C6haloalkylsulfonyle, C1-C6hydroxyalkyle, C1-C6alkyloxycarbonyle, C1-C6alkylcarbonyle, C1-C6alkylcarbonyloxy ou COOH; R2 représente hydrogène, halogène, CN, C1-C6alkyle, C1-C6haloalkyle, C1-C6cyanoalkyle, C1-C6-hydroxyalkyle, C1-C6alcoxy, C1-C6haloalcoxy, C1-C6alkylthio, C1-C6haloalkylthio ou C3-C7cycloalkyle; R3 est un hydrogène, halogène, C1-C6alkyle, C1-C6haloalkyle, cyano ou nitro; R4 est hydrogène, halogène, nitro, cyano, NCS, C1-C6alkyle, C1-C6haloalkyle, C1-C6alcoxy ou C1-C6haloalcoxy; et R5 représente hydrogène, halogène, nitro, C1-C6alkyle, C1-C6haloalkyle, C1-C6alcoxy ou C1-C6haloalcoxy, ou R4 et R5 forment ensemble un pont -O-(CH2)m-O- où m représente un nombre entier choisi parmi 1, 2 et 3, une condition à satisfaire étant alors que R4 et R5 doivent être liés à des atomes de carbone adjacents. L'invention concerne également les composés d'addition de ces dérivés acceptables sur le plan physiologique. On peut utiliser ces dérivés et composés d'addition contre les insectes appartenant à l'ordre des acariens qui sont nuisibles pour les animaux et les plantes et contre les helminthes chez les animaux à sang chaud.

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