

Title (en)

A NOVEL FORM OF METCONAZOLE, A PROCESS FOR ITS PREPARATION AND USE OF THE SAME

Title (de)

NEUE FORM VON METCONAZOL, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)

NOUVELLE FORME DE METCONAZOLE, SON PROCÉDÉ DE PRÉPARATION ET SON UTILISATION

Publication

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Application

EP 19914791 A 20191121

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Abstract (en)

[origin: GB2581208A] A crystalline modification I of 5-(4-chlorobenzyl)-2,2-dimethyl-1- H -1,2,4-triazol-1-ylmethyl)cyclopentanol (metconazole) characterized by exhibiting at least 3 of the following reflexes, in any combination, as $2\theta \pm 0.2$ degree in an X-ray powder diffractogram (X-RPD) recorded using Cu—K α radiation at 25 °C: 10.3 ± 0.2 , 15.6 ± 0.2 , 20.6 ± 0.2 , 22.2 ± 0.2 , 23.3 ± 0.2 . The crystalline modification I may be further characterized by exhibiting functional group vibrational peaks at wavenumbers ($\text{cm}^{-1} \pm 0.2\%$) of one or more of 3337, 2963, 2871, 1508, 1492, 1425, 1406, 1385, 1271, 1137 and 1013; or by exhibiting a differential scanning calorimetry (DSC) profile having an endothermic melting peak maximum at 113.3 °C. The crystalline modification may be characterized by spectra substantially as shown in Figures 1-3. A method of preparing the crystalline modification is also provided, particularly wherein the crystalline modification is provided by recrystallizing metconazole from xylene, methyl t-butyl ether or a mixture thereof, such method may include the use of seed crystals of the crystalline modification. Compositions comprising the crystalline modification and its use in controlling fungal infestations are also provided.

IPC 8 full level

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