

Title (en)  
METHOD FOR PRODUCING 4-HALOALKYL NICOTINE NITRILES

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON 4-HALOALKYLNICOTINNITRILEN

Title (fr)  
PROCEDE DE FABRICATION DE 4-HALOALKYL-NICOTINE-NITRILES

Publication  
**EP 1345906 A2 20030924 (DE)**

Application  
**EP 01985871 A 20011212**

Priority

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- EP 0114584 W 20011212

Abstract (en)

[origin: WO0248111A2] 4-haloalkyl nicotine nitriles (I) are suitable for use as intermediate products in the production of pesticides and can be obtained by means of a method which provides that a) 3-amino-1-haloalkyl-2-propen-1-one  $R<F>-C(O)-CH=CH-NH_2$  (II) is reacted with a compound of formula (III) to (VII),  $(R<1>Z)CH=CH-CN$  (III)  $(R<1>Z)2CH-CH_2-CN$  (IV)  $Hal-CH=CH-CN$  (V)  $Hal_2CH-CH_2CN$  (VI)  $HC=C-CN$  (VII) in a condensation reaction,  $R<F>$  meaning (C1-C4)-haloalkyl  $R<1>$  alkyl, Hal Cl or Br and Z meaning O, S, NR<1> or OCO, and in the case of formula (IV), the two radicals Z being able to have the aforementioned meanings, independently of each other; to produce a compound of formula (VIII), (IX) and/or (X),  $R<F>-C(O)-CH=CH-NH-CH=CH-CN$  (VIII)  $R<F>-C(O)-CH=CH-NH-CH(ZR)-CH_2-CN$  (IX)  $R<F>-C(O)-CH=CH-NH-CH(Hal)-CH_2-CN$  (X), R, Z and Hal having the meanings given above, and subjecting the product of the reaction b) to a ring closure reaction.

IPC 1-7  
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IPC 8 full level  
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CPC (source: EP KR US)  
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J. FALBE ET AL. (HRSG.): "HOUBEN-WEYL, METHODEN DER ORGANISCHEN CHEMIE", vol. E5, 1985, GEORG THIEME VERLAG, Stuttgart, DE, New York, US, article "Carbonsäuren und Carbonsäure-Derivate", pages: 818

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