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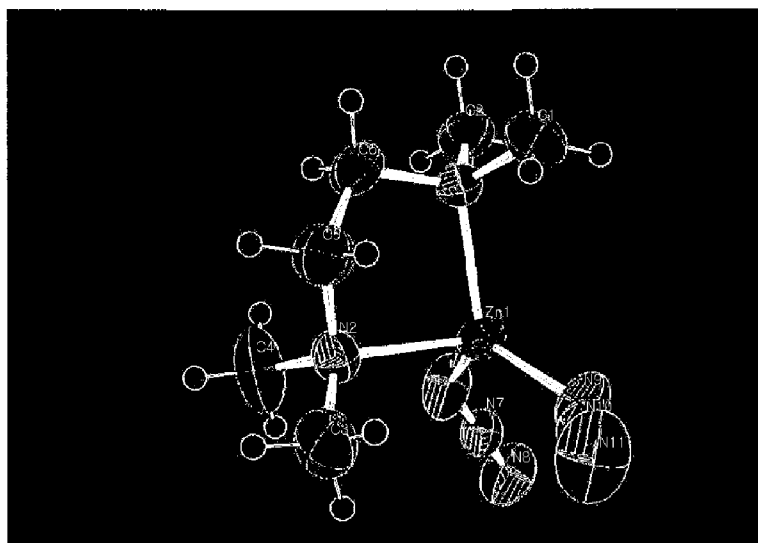
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(54) Title: NOVEL ZINC AZIDE COMPLEX AND A PROCESS FOR PREPARING TETRAZOLE DERIVATIVES USING THE SAME

[Fig. 1]



(57) Abstract: The present invention relates to a novel zinc azide complex. The present invention also relates to a process for preparing 5-substituted-1H-tetrazole derivatives from nitrile derivatives by using the zinc azide complex. According to the present invention, in particular, pharmaceutically active compounds for treating hypertension or intermediates useful for preparation thereof can be prepared effectively.





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A. CLASSIFICATION OF SUBJECT MATTER*C07F 3/06(2006.01)i, C07D 257/04(2006.01)i, A61K 31/41(2006.01)i, A61P 9/12(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07F 3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: zinc azide complex, TMEDA ligand, tetrazole formation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DAPPORTO, P. et al. `Addition of Small Molecules by Zn(II) and Cu(II) Dinuclear Complexes Obtained by an Amino-Phenolic Ligand. Crystal Structures of the Dinuclear Zinc Complex Assembling Butanolate and Azide Anions.` In: Inorg. Chem., 2001, Vol. 40, pp. 6186-6192. See experimental section, page 6188.	1-14
A	HIMO, F. et al. 'Why Is Tetrazole Formation by Addition of Azide to Organic Nitriles Catalyzed by Zinc(II) Salts.' In: J. Am. Chem. Soc., 2003, Vol. 125, pp. 9983-9987. See the whole document.	1-14
A	DEMKO, Z. P. et al. 'An Expedient Route to the Tetrazole Analogues of alpha-Amino Acids.' In: Org. Lett., 2002, Vol. 4, pp. 2525-2527. See the whole document.	1-14
A	DEMKO, Z. P. et al. 'Preparation of 5-Substituted 1H-Tetrazoles from Nitriles in Water.' In: J. Org. Chem., 2001, Vol. 66, pp. 7945-7960. See the whole document.	1-14

 Further documents are listed in the continuation of Box C. See patent family annex.

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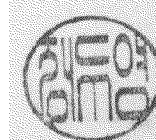
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