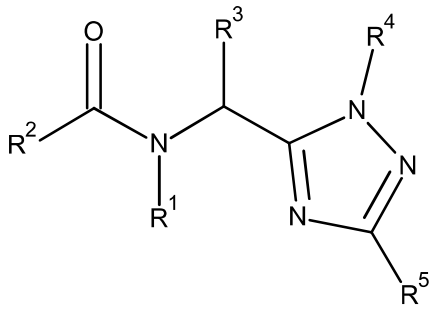
Claims:

1. Compound of the formula (I)



(I),

in which

R^1 is hydrogen;

R^2 is phenyl wherein the phenyl is substituted with a total of one to two substituents, provided the substituent(s) are not on either carbon adjacent to the carbon bonded to the C=O group and one substituent is selected from group A consisting of

methylsulfonyl, ethylsulfonyl, isopropylsulfonyl, cyclopropylsulfonyl, difluoromethylsulfonyl, trifluoroethylsulfonyl, trifluoromethylsulfonyl, and -SF_5 and cyclopropyl wherein the cyclopropyl is optionally substituted with one to two substituent(s) selected from the group of halogen, -CN, methyl, difluoromethyl and trifluoromethyl;

and the other substituent is independently selected from group B consisting of

fluorine, chlorine, bromine, iodine, -CN, difluoromethyl, trifluoromethyl, difluoromethoxy, trifluoromethoxy and cyclopropyl wherein the cyclopropyl is optionally substituted with one to two substituent(s) selected from the group of halogen, -CN, methyl, difluoromethyl and trifluoromethyl; or

R^2 is thiophene optionally substituted by one substituent selected from the group consisting of

fluorine, chlorine, bromine, and trifluoromethyl; or

R^2 is pyrazol optionally substituted by one to two substituents selected from the group consisting of

fluorine, chlorine, bromine, methyl, and trifluoromethyl;

R^3 is C_1-C_3alkyl;

R^4 is pyridine, pyrimidine or pyrazine wherein the pyridine, pyrimidine or pyrazine is optionally substituted with one substituent selected from the group consisting of

chlorine, and -CN;

R^5 is cyclopropyl, or halogen.

2. Compound according to claim 1, in which

R^1 is hydrogen;

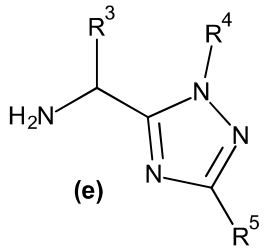
R^2 is 3-chloro-5-cyclopropylphenyl, 3-chloro-5-methylsulfonylphenyl, 5-chloro-3-thienyl, 3-chloro-5-(2,2,2-trifluoroethylsulfonyl)phenyl, 3-chloro-5-isopropylsulfonylphenyl, 3-cyclopropylsulfonyl-5-(trifluoromethyl)phenyl, 3-chloro-5-ethylsulfonylphenyl, 3-chloro-5-cyclopropylsulfonylphenyl, 3-ethylsulfonyl-5-(trifluoromethyl)phenyl, 3-cyclopropyl-5-(trifluoromethoxy)phenyl, 3-chloro-5-(difluoromethylsulfonyl)phenyl, 3-methylsulfonyl-5-(trifluoromethyl)phenyl, 1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl, 3-chloro-5-(pentafluoro-λ6-sulfanyl)phenyl, 3-chloro-5-(1-cyanocyclopropyl)phenyl, 3-chloro-5-(trifluoromethylsulfonyl)phenyl, 3-bromo-5-[1-(trifluoromethyl)cyclopropyl]phenyl, 3-cyclopropyl-5-methylsulfonylphenyl, 3-(difluoromethyl)-5-methylsulfonylphenyl, 3-cyclopropyl-5-cyclopropylsulfonylphenyl, 3-fluoro-5-methylsulfonylphenyl, 3-(difluoromethoxy)-5-methylsulfonylphenyl, 3-methylsulfonyl-5-(trifluoromethoxy)phenyl, 3-cyclopropyl-5-(difluoromethyl)phenyl, 3-bromo-5-(1-fluorocyclopropyl)phenyl, 3-bromo-5-(2,2-difluorocyclopropyl)phenyl, 3-cyclopropyl-5-(difluoromethoxy)phenyl, 3-cyclopropylsulfonyl-5-(difluoromethoxy)phenyl, 3-cyclopropylsulfonyl-5-(trifluoromethoxy)phenyl, or 3-cyclopropylsulfonyl-5-(difluoromethyl)phenyl;

R^3 is methyl;

R^4 is 5-cyanopyridin-2-yl, pyrimidin-2-yl, 5-chloropyrimidin-2-yl or 5-chloropyridin-2-yl;

R^5 is cyclopropyl, iodine, bromine or chlorine.

3. Compound of the formula (**e**)

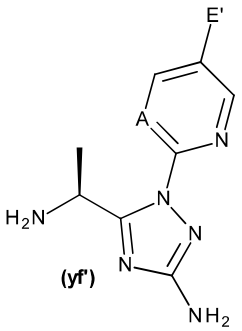


(e)

in which the structural elements R^3, R^4 and R^5 have the meaning given in claim 1 or in claim 2.

4. Compounds 6-[5-[(1S)-1-aminoethyl]-3-cyclopropyl-1,2,4-triazol-1-yl]pyridine-3-carbonitrile hydrochloride, (1S)-1-[1-(5-chloropyrimidin-2-yl)-3-cyclopropyl-1H-1,2,4-triazol-5-yl]ethanamine hydrochloride, 1-[3-chloro-1-(pyrimidin-2-yl)-1H-1,2,4-triazol-5-yl]ethanamine, 1-[3-bromo-1-(pyrimidin-2-yl)-1H-1,2,4-triazol-5-yl]ethanamine, 1-[3-iodo-1-(pyrimidin-2-yl)-1H-1,2,4-triazol-5-yl]ethanamine, (1S)-1-[1-(5-chloropyridin-2-yl)-3-cyclopropyl-1H-1,2,4-triazol-5-yl]ethanamine hydrochloride, 6-[5-(1-aminoethyl)-3-iodo-1H-1,2,4-triazol-1-yl]nicotinonitrile, 6-[5-(1-aminoethyl)-3-bromo-1,2,4-triazol-1-yl]pyridine-3-carbonitrile, 6-[5-(1-aminoethyl)-3-chloro-1,2,4-triazol-1-yl]pyridine-3-carbonitrile, and salts thereof and in case of amine hydrochlorides the free amines.

5. Compound of the formula (yf')



(yf')

in which E' is hydrogen, chlorine or -CN and A is N or CH, including salts thereof, preferably hydrochloric acid salts, including 5-[(1S)-1-aminoethyl]-1-(pyrimidin-2-yl)-1H-1,2,4-triazol-3-amine hydrochloride.

6. Compounds 3-chloro-5-[(difluoromethyl)sulfanyl]benzoic acid, 3-cyclopropyl-5-(difluoromethyl)benzoic acid, 3-cyclopropyl-5-iodobenzoic acid, 3-chloro-5-[(difluoromethyl)sulfonyl]benzoic acid, 3-cyano-5-cyclopropylbenzoic acid, 3-cyclopropyl-5-methylsulfonyl-benzoic acid, and 3-cyclopropyl-5-cyclopropylsulfonyl-benzoic acid, and salts thereof.

7. Formulation, especially agrochemical formulation, comprising at least one compound of the formula (I) according to any of Claims 1 to 2.

8. Formulation according to Claim 7, further comprising at least one extender and/or at least one surface-active substance.

9. Formulation according to Claim 7 or 8, characterized in that the compound of the formula (I) is in a mixture with at least one further active compound.

10. Method for controlling pests, especially animal pests, characterized in that a compound of the formula (I) according to any of Claims 1 to 2 or a formulation according to any of Claims 7 to 9 is allowed to act on the pests and/or their habitat, whereas methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body are excluded.

11. Method according to Claim 10, characterized in that the pest is an animal pest and comprises an insect, an arachnid or a nematode, or in that the pest is an insect, an arachnid or a nematode, whereas methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body are excluded.

12. Use of a compound of the formula (I) according to any of Claims 1 to 2 or of a formulation according to any of Claims 7 to 9 for controlling animal pests, whereas the use of methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body is excluded.

13. Use according to Claim 12, characterized in that the animal pest comprises an insect, an arachnid or a nematode, or in that the animal pest is an insect, an arachnid or a nematode, whereas the use of methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body is excluded.

14. Use according to Claim 12 or 13 in crop protection, whereas the use of methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body is excluded.

15. Use according to Claim 12 or 13 in the field of animal health, whereas the use of methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body is excluded.

16. Method for protecting seed or a germinating plant from pests, especially animal pests, comprising a method step in which the seed is contacted with a compound of the formula (I) according to any of Claims 1 to 2 or with a formulation according to any of Claims 7 to 9, whereas methods for treatment of the human or animal body by surgery or therapy and diagnostic methods practised on the human or animal body are excluded.