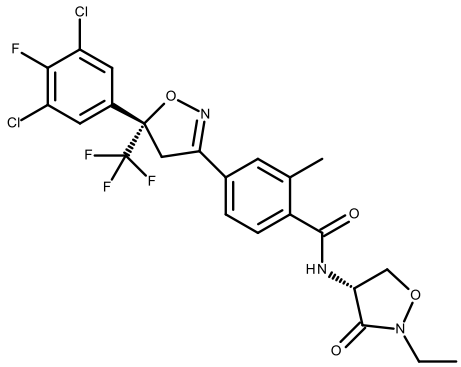
Claims

1. A crystalline polymorph of the compound of formula IA



IA

which has a powder X-ray diffraction pattern comprising at least three 2θ angle values selected from the group consisting of 6.0 ± 0.2, 8.8 ± 0.2, 9.4 ± 0.2, 10.1 ± 0.2, 11.9 ± 0.2, 14.5 ± 0.2, 15.9 ± 0.2, 20.2 ± 0.2, 20.7 ± 0.2, 21.2 ± 0.2, 21.7 ± 0.2, 22.1 ± 0.2 and 22.7 ± 0.2.

2. The crystalline polymorph of claim 1, which has a powder X-ray diffraction pattern comprising at least six 2θ angle values selected from the group consisting of 6.0 ± 0.2, 8.8 ± 0.2, 9.4 ± 0.2, 10.1 ± 0.2, 11.9 ± 0.2, 14.5 ± 0.2, 15.9 ± 0.2, 20.2 ± 0.2, 20.7 ± 0.2, 21.2 ± 0.2, 21.7 ± 0.2, 22.1 ± 0.2 and 22.7 ± 0.2.

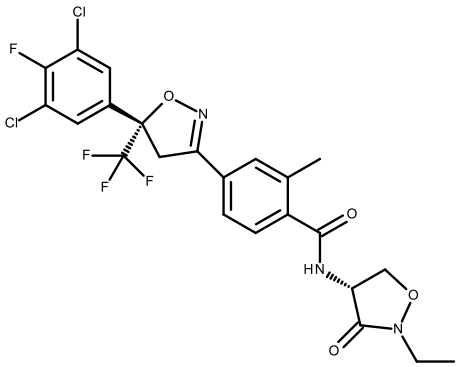
3. The crystalline polymorph of claim 1 or claim 2, which has the following lattice parameters: a=5.06 Å ± 0.01 Å, b=18.92 Å ± 0.01 Å, c=24.17 Å ± 0.01 Å, $\alpha = 90^{o} \pm 0.01^{o}$, $\beta = 90^{o} \pm 0.01^{o}$, $\gamma = 90^{o} \pm 0.01^{o}$ and volume = 2315$Å^3$ ± 1 $Å^3$.

4. The crystalline polymorph of any one of claims 1 to 3, which has a melting point of 141°C ± 2°C.

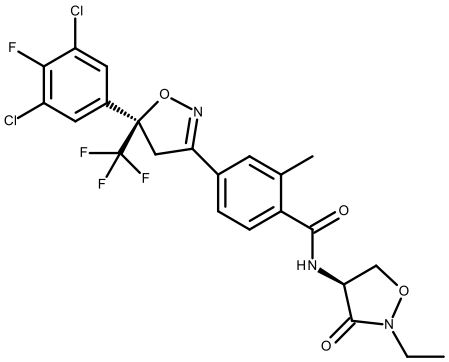
5. A crystalline polymorph of the compound of formula IA, which is a hydrate and which has a powder X-ray diffraction pattern comprising at least three 2θ angle values selected from the group consisting of 4.4 ± 0.2, 7.0 ± 0.2, 8.7 ± 0.2, 10.3 ± 0.2, 11.0 ± 0.2, 12.4 ± 0.2, 12.7 ± 0.2, 13.3 ± 0.2, 14.1 ± 0.2, 15.9 ± 0.2, 17.1 ± 0.2, 18.6 ± 0.2, 19.0 ± 0.2 and 19.6 ± 0.2.

6. The crystalline polymorph of claim 5, which has the following lattice parameters: a=8.03 Å ± 0.01 Å, b=16.10 Å ± 0.01 Å, c=20.37 Å ± 0.01 Å, α = 90º ± 0.01 º, β = 97.02º ± 0.01 º, γ = 90º ± 0.01 º and volume = 2615Å^3 ± 1 Å^3.

7. A crystalline polymorph of the racemate of the compounds of formula IA and ID



(IA) ,



(ID)

which has a powder X-ray diffraction pattern comprising at least three 2θ angle values selected from the group consisting of 4.0 ± 0.2, 8.1 ± 0.2, 9.7 ± 0.2, 11.1 ± 0.2, 12.7 ± 0.2, 15.3 ± 0.2, 15.9 ± 0.2, 16.2 ± 0.2, 16.7 ± 0.2, 18.4 ± 0.2, 19.5 ± 0.2, 19.8 ± 0.2, 20.3 ± 0.2, 21.8 ± 0.2 and 23.9 ± 0.2.

8. The crystalline polymorph of claim 7, which has a melting point of 173°C ± 2°C.

9. An agricultural composition comprising a polymorph as claimed in any one of claims 1 to 8 and at least one agriculturally acceptable carrier or diluent.

10. The composition of claim 9, which comprises more than one polymorph of the polymorphs defined in any one of claims 1 to 8.

11. The composition of claim 9, which is enriched for a polymorph of the compound of formula IA.

12. The composition of claim 11, which is enriched for the polymorph as defined in claims 1 to 4.

13. The composition of any one of claims 9 to 12, which comprises at least one further insecticide or nematicide.

14. A method of preventing or controlling insect infection on plants or plant propagation material comprising treating the plant or plant propagation material with an

insecticidally effective amount of an agricultural composition as claimed in any one of claims 9 to 13.