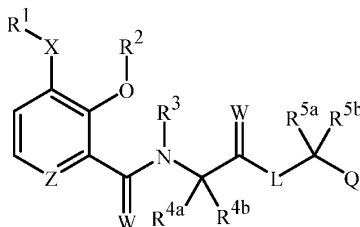


CLAIMS

What is claimed is:

1. A compound selected from Formula 1, *N*-oxides, and salts thereof,



1

5 wherein

Z is N or CR⁶;

each W is independently O or S;

X is O or NR⁷;

10 R¹ is H, C(=O)H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₂-C₆ alkylcarbonyl, C₂-C₆ haloalkylcarbonyl, C₂-C₆ alkoxy carbonyl or C₂-C₆ haloalkoxy carbonyl;

15 R² is H, C(=W)NH₂, C(=O)R⁸, C(=O)OR⁹, S(=O)_mR⁸, S(=O)_mOR⁹, S(=O)_mNR¹⁰R¹¹, CH₂C(=O)R⁸, CH₂C(=O)OR⁹, CH₂OC(=O)R⁸, CH₂OC(=O)OR⁹, CH₂NR¹²C(=O)R⁸, CH₂NR¹²C(=O)OR⁹, P(=W)R¹³R¹⁴, P(=W)(OR¹³)R¹⁴ or P(=W)(OR¹³)OR¹⁴; or C₁-C₆ alkyl, C₂-C₆ alkenyl or C₁-C₆ haloalkyl, each optionally substituted with up to 3 substituents independently selected from R¹⁵; or benzyl or phenethyl, each ring optionally substituted with up to 3 substituents independently selected from R¹⁶; or tetrahydropyranyl, tetrahydrofuranyl, pyrrolidinyl, 1,3-dioxolanyl or piperidinyl;

20 R³ is H, CH(=O), C(=O)R¹⁷, C(=O)OR¹⁷ or OR¹⁷; or C₁-C₆ alkyl or C₁-C₆ haloalkyl; or

25 R² and R³ are taken together with the atoms to which they are attached to form a 6-membered nonaromatic ring containing ring members selected from carbon atoms and optionally up to 1 ring member selected from C(=O) or C(=S), and optionally substituted with up to 3 substituents independently selected from halogen, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₁-C₂ alkoxy and C₁-C₂ haloalkoxy;

R^{4a} is H, cyano, hydroxy, halogen, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy, C₁-C₃ haloalkoxy, C₂-C₃ alkoxyalkyl, C₂-C₃ haloalkoxyalkyl, C₁-C₃ alkylsulfinyl or C₁-C₃ alkylsulfonyl;

30 R^{4b} is H, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy or C₂-C₃ alkoxyalkyl;

L is O or NR¹⁸;

- R^{5a} and R^{5b} are each independently H, cyano, hydroxy, halogen, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₂-C₆ alkynyl, C₂-C₆ haloalkynyl, C₃-C₆ cycloalkyl or C₃-C₆ halocycloalkyl; or
- 5 R^{5a} and R^{5b} are taken together with the atom to which they are attached to form a 3- to 7- membered nonaromatic carbocyclic ring, the ring optionally substituted with up to 3 substituents independently selected from halogen, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₁-C₂ alkoxy and C₁-C₂ haloalkoxy;
- Q is phenyl optionally substituted with up to 5 substituents independently selected from R¹⁹; or
- 10 Q is a 5- to 6-membered heteroaromatic ring, each ring containing ring members selected from carbon atoms and 1 to 4 heteroatoms independently selected from up to 2 O, up to 2 S and up to 4 N atoms, each ring optionally substituted with up to 5 substituents independently selected from R¹⁹; or
- 15 Q is a 3- to 7-membered nonaromatic ring or a 7- to 14-membered bicyclic ring system, each ring or ring system containing ring members selected from carbon atoms and optionally up to 4 heteroatoms independently selected from up to 2 O, up to 2 S and up to 4 N atoms, wherein up to 2 ring members are independently selected from C(=O), C(=S), S(=O) and S(=O)₂, each ring or ring system optionally substituted with up to 5 substituents independently selected from R¹⁹;
- 20 R⁶ is H, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₂-C₄ alkenyl, C₂-C₄ haloalkenyl, C₂-C₄ alkynyl, C₂-C₄ haloalkynyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxycarbonyl;
- R⁷ is H, cyano, C₁-C₃ alkyl or C₁-C₃ haloalkyl;
- 25 R⁸ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₁-C₆ alkylamino, C₁-C₆ haloalkylamino, C₂-C₆ alkoxyalkyl, C₂-C₆ alkylthioalkyl; or phenyl;
- m is 1 or 2;
- R⁹ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₂-C₆ alkoxyalkyl or C₂-C₆ alkylthioalkyl;
- 30 R¹⁰ and R¹¹ are each independently H, CH(=O), C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₄-C₈ alkylcycloalkyl or C₄-C₈ cycloalkylalkyl;
- R¹² is H, cyano, CH(=O), C₁-C₃ alkyl or C₁-C₃ haloalkyl;
- R¹³ and R¹⁴ are each independently C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₃-C₆ cycloalkyl or C₃-C₆ halocycloalkyl;
- 35 each R¹⁵ is independently cyano, hydroxy, C₁-C₂ alkoxy or C₁-C₂ haloalkoxy;
- each R¹⁶ is independently halogen, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₁-C₂ alkoxy or C₁-C₂ haloalkoxy;

- R¹⁷ is H, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl or C₂-C₆ alkoxyalkyl;
- R¹⁸ is H, C(=O)H, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl;
- 5 each R¹⁹ is independently cyano, halogen, hydroxy, nitro, CH(=O), C(=O)OH, NR^{20a}R^{20b}, C(=O)NR^{20a}R^{20b}, C(=S)NR^{20a}R^{20b}, C(R²¹)=NR²², N=CR²³NR^{24a}R^{24b} or -U-V-T; or C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₃-C₆ cycloalkenyl, C₁-C₆ alkoxy, C₂-C₆ alkenyloxy, C₂-C₆ alkynyloxy, C₃-C₆ cycloalkoxy, C₁-C₆ alkylthio, C₁-C₆ alkylsulfinyl, C₁-C₆ alkylsulfonyl, C₁-C₆ alkylaminosulfinyl, C₁-C₆ alkylaminosulfonyl, C₁-C₆ alkylsulfonyloxy, C₂-C₆ alkenylsulfonyloxy, C₂-C₆ alkylcarbonyl, C₃-C₆ alkenylcarbonyl, C₃-C₆ alkynylcarbonyl, C₄-C₇ cycloalkylcarbonyl, C₂-C₆ alkoxy carbonyl, C₃-C₆ alkenyloxy carbonyl, C₃-C₆ alkynyloxy carbonyl, C₄-C₇ cycloalkoxy carbonyl, C₂-C₆ alkylcarbonyloxy, C₃-C₆ alkenylcarbonyloxy, C₃-C₆ alkynylcarbonyloxy, C₄-C₇ cycloalkylcarbonyloxy, C₂-C₆ alkoxy carbonyloxy or C₃-C₆ alkenyloxy carbonyloxy, each optionally substituted with up to 4 substituents independently selected from R²⁵;
- 10 each R^{20a} is independently H, cyano, hydroxy, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₂-C₄ alkenyl, C₂-C₄ haloalkenyl, C₂-C₄ alkynyl, C₂-C₄ haloalkynyl, C₁-C₄ alkoxy, C₂-C₄ alkoxyalkyl, C₁-C₄ alkylsulfonyl, C₁-C₄ haloalkylsulfonyl, C₂-C₄ alkylthioalkyl, C₂-C₄ alkylsulfonylalkyl, C₂-C₄ alkylcarbonyl, C₂-C₄ haloalkylcarbonyl, C₃-C₅ alkenylcarbonyl, C₃-C₅ alkynylcarbonyl, C₄-C₇ cycloalkylcarbonyl, C₂-C₅ alkoxy carbonyl, C₃-C₅ alkoxy carbonylalkyl, C₂-C₅ alkylaminocarbonyl or C₃-C₅ dialkylaminocarbonyl;
- 20 each R^{20b} is independently H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₂-C₆ haloalkenyl, C₂-C₆ alkynyl, C₂-C₆ haloalkynyl, C₁-C₆ hydroxyalkyl, C₂-C₆ cyanoalkyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₄-C₈ alkylcycloalkyl, C₄-C₈ cycloalkylalkyl, C₂-C₆ alkoxyalkyl, C₂-C₆ haloalkoxyalkyl, C₂-C₆ alkylthioalkyl or C₂-C₆ alkylaminoalkyl;
- 25 each R²¹ is independently H, cyano, halogen, methyl, methoxy, methylthio or methoxycarbonyl;
- 30 each R²² is independently hydroxy or NR^{26a}R^{26b}; or C₁-C₄ alkoxy, C₂-C₄ alkenyloxy, C₂-C₄ alkynyloxy or C₂-C₄ alkylcarbonyloxy, each optionally substituted with up to 1 substituent selected from cyano, halogen, hydroxy and C(=O)OH;
- 35 each R²³ is independently H, methyl, methoxy or methylthio;
- each R^{24a} and R^{24b} is independently H or C₁-C₄ alkyl; or
- R^{24a} and R^{24b} are taken together to form a 4- to 6-membered fully saturated heterocyclic ring, each ring containing ring members, in addition to the

- connecting nitrogen atom, selected from carbon atoms and up to 2 heteroatoms independently selected from up to 2 O, up to 2 S and up to 2 N atoms, each ring optionally substituted with up to 2 methyl groups;
- 5 each R²⁵ is independently amino, cyano, halogen, hydroxy, nitro, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₃-C₆ cycloalkyl, C₃-C₆ halocycloalkyl, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₂-C₄ alkoxyalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ haloalkylsulfonyl, C₂-C₄ alkylcarbonyl, C₂-C₄ haloalkylcarbonyl, C₂-C₅ alkoxycarbonyl, C₃-C₁₅ trialkylsilyl or C₃-C₁₅ halotrialkylsilyl;
- 10 each U is independently a direct bond, O, S(=O)_n, NR²⁷, C(=O)O, C(=O)N(R²⁸) or C(=S)N(R²⁹), wherein the atom to the left is connected to Q, and the atom to the right is connected to V;
- n is 0, 1 or 2;
- 15 each V is independently a direct bond; or C₁-C₆ alkylene, C₂-C₆ alkenylene, C₃-C₆ alkynylene, C₃-C₆ cycloalkylene or C₃-C₆ cycloalkenylene, wherein up to 1 carbon atom is C(=O), each optionally substituted with up to 3 substituents independently selected from halogen, cyano, nitro, hydroxy, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₁-C₂ alkoxy and C₁-C₂ haloalkoxy;
- 20 each T is independently phenyl optionally substituted with up to 5 substituents independently selected from R³⁰; or
- each T is independently a 5- to 6-membered heteroaromatic ring, each ring containing ring members selected from carbon atoms and 1 to 4 heteroatoms independently selected from up to 2 O, up to 2 S and up to 4 N atoms, each ring optionally substituted with up to 5 substituents independently selected from R³⁰; or
- 25 each T is independently a 3- to 7-membered nonaromatic heterocyclic ring, each ring containing ring members selected from carbon atoms and 1 to 4 heteroatoms independently selected from up to 2 O, up to 2 S and up to 4 N atoms, wherein up to 2 ring members are independently selected from C(=O), C(=S), S(=O) and S(=O)₂, each ring optionally substituted with up to 5 substituents independently selected from R³⁰;
- 30 each R^{26a} is independently H, C₁-C₄ alkyl or C₂-C₄ alkylcarbonyl;
- each R^{26b} is independently H, cyano, C₁-C₅ alkyl, C₂-C₅ alkylcarbonyl, C₂-C₅ haloalkylcarbonyl, C₄-C₇ cycloalkylcarbonyl, C₂-C₅ alkoxycarbonyl, C₃-C₅ alkoxycarbonylalkyl, C₂-C₅ alkylaminocarbonyl or C₃-C₅ dialkylaminocarbonyl;
- 35 or
- R^{26a} and R^{26b} are taken together to form a 5- to 6-membered fully saturated heterocyclic ring, each ring containing ring members, in addition to the connecting nitrogen atom, selected from carbon atoms and up to 2 heteroatoms

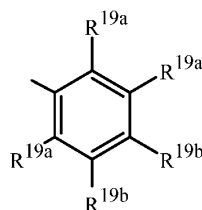
independently selected from up to 2 O, up to 2 S and up to 2 N atoms, each ring optionally substituted with up to 2 methyl groups;

each R²⁷, R²⁸ and R²⁹ is independently H, cyano, hydroxy, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₂-C₄ alkylcarbonyl, C₂-C₄ haloalkylcarbonyl, C₂-C₄ alkoxy carbonyl or C₂-C₄ haloalkoxy carbonyl; and

each R³⁰ is independently halogen, cyano, hydroxy, nitro, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₂-C₄ alkenyl, C₁-C₄ alkoxy, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl;

provided that:

- (a) when R¹ is C₁-C₆ alkyl or C₁-C₆ haloalkyl, X is O, Z is N, each W is O, L is O, R^{5a} is C₁-C₆ alkyl, R^{5b} is H and Q is phenyl, then Q is substituted with at least one R¹⁹ substituent; and
- (b) when R¹ is C₁-C₆ alkyl or C₁-C₆ haloalkyl, X is O, Z is N, each W is O, L is O, R^{5a} is C₁-C₆ alkyl and R^{5b} is H, then Q is other than



wherein

each R^{19a} is independently H, halogen or C₁-C₆ alkyl;

each R^{19b} is independently H or -U-V-T;

each U and V is a direct bond; or

each U is O and each V is a direct bond; or

each U is a direct bond and each V is C₁-C₆ alkylene;

each T is independently phenyl optionally substituted with up to 5 substituents independently selected from R³⁰; or

each T is independently a 5- to 6-membered heteroaromatic ring, each ring containing ring members selected from carbon atoms and 1 to 4 heteroatoms independently selected from up to 2 O, up to 2 S and up to 4 N atoms, each ring optionally substituted with up to 5 substituents independently selected from R³⁰; and

each R³⁰ is independently halogen, cyano, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ alkoxy or C₂-C₄ alkylcarbonyl.

2. A compound Claim 1 wherein

W is O;

R¹ is H, C(=O)H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkylcarbonyl or C₂-C₆ alkoxy carbonyl;

R² is H, C(=W)NH₂, C(=O)R⁸, C(=O)OR⁹, CH₂C(=O)R⁸, CH₂C(=O)OR⁹,
 CH₂OC(=O)R⁸, CH₂OC(=O)OR⁹, CH₂NR¹²C(=O)R⁸ or CH₂NR¹²C(=O)OR⁹;
 or C₁-C₃ alkyl or C₁-C₃ haloalkyl, each optionally substituted with up to 3
 substituents independently selected from R¹⁵; or benzyl, tetrahydropyranyl or
 tetrahydrofurfuryl;

R³ is H, CH(=O) or C(=O)R¹⁷; or

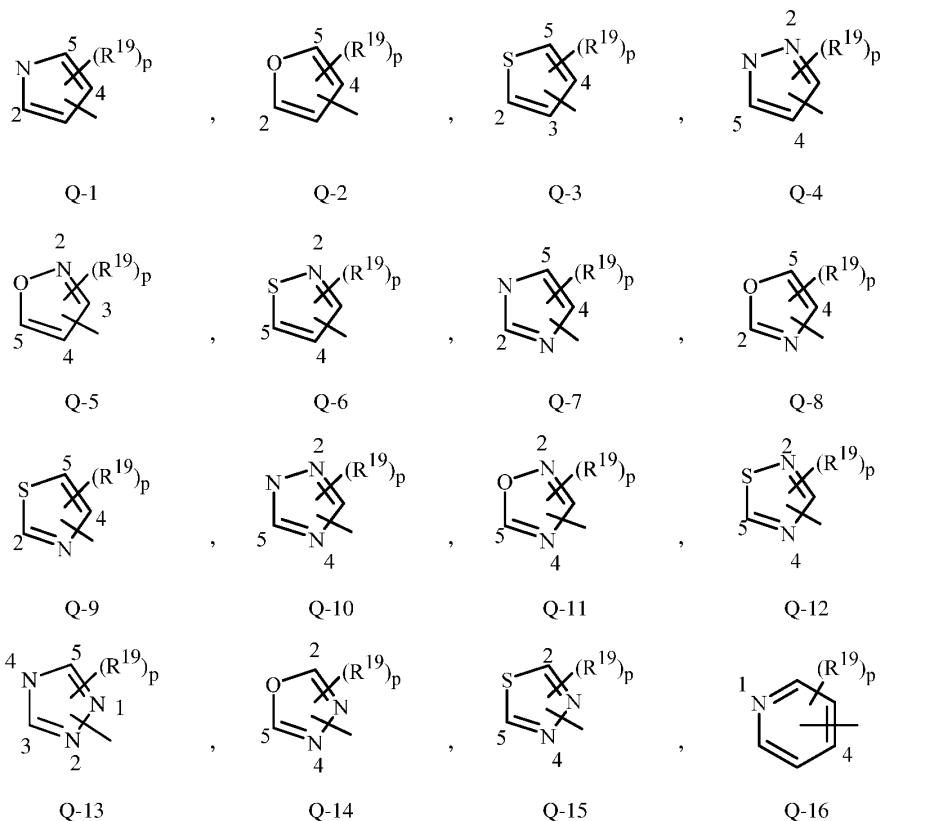
R² and R³ are taken together with the atoms to which they are attached to form a
 6-membered nonaromatic ring containing ring members selected from carbon
 atoms, the ring optionally substituted with up to 3 substituents independently
 selected from halogen and methyl;

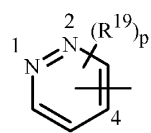
R^{4a} is H, cyano, halogen, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₁-C₃ alkoxy or C₂-C₃
 alkoxyalkyl;

R^{4b} is H, C₁-C₃ alkyl or C₁-C₃ haloalkyl;

R^{5a} and R^{5b} are each independently H, cyano, halogen, C₁-C₆ alkyl, C₁-C₆ haloalkyl,
 C₂-C₆ alkenyl, C₃-C₆ cycloalkyl or C₃-C₆ halocycloalkyl;

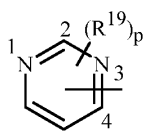
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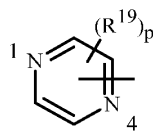
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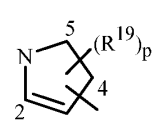
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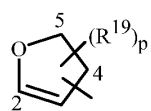
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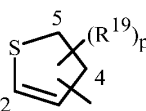
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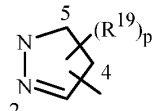
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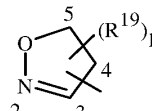
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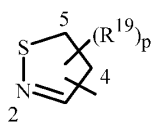
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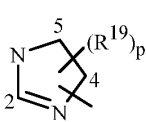
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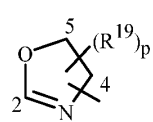
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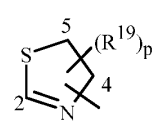
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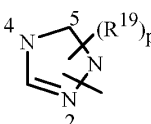
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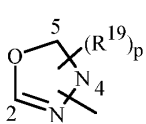
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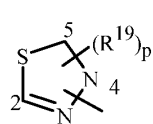
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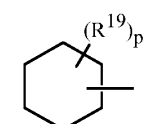
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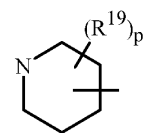
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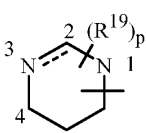
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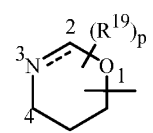
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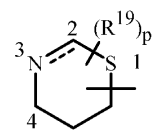
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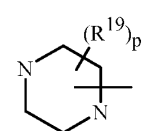
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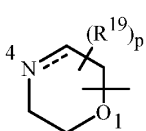
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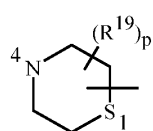
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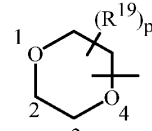
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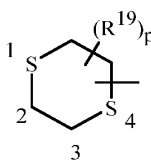
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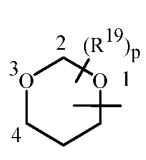
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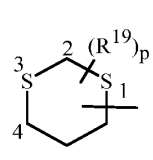
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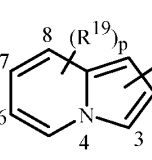
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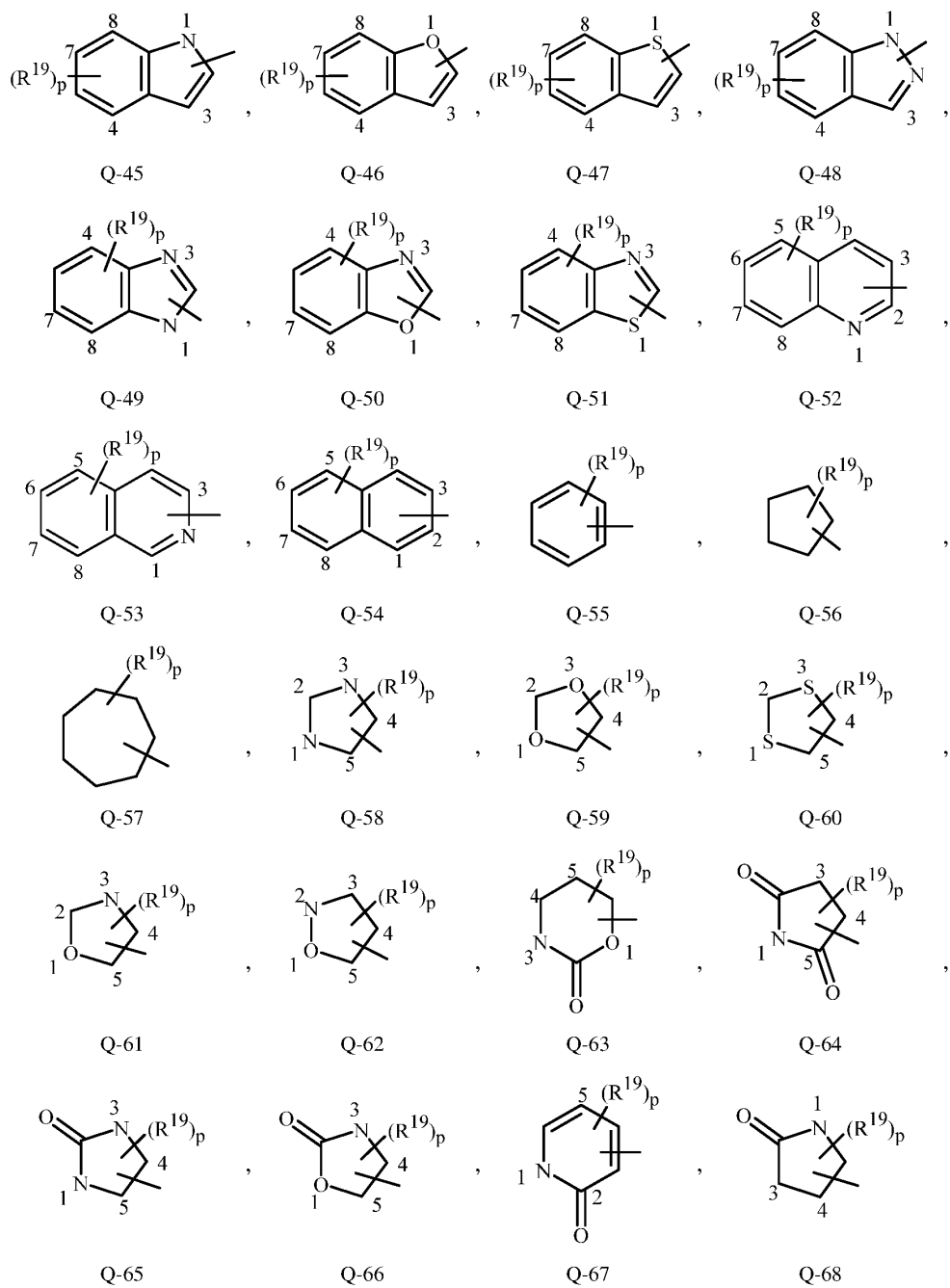
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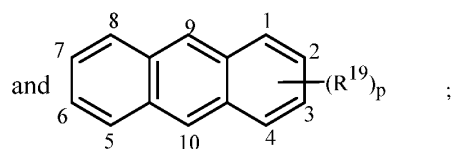
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Q-69

wherein the floating bond is connected to Formula **1** through any available carbon or nitrogen atom of the depicted ring or ring system; and p is 0, 1, 2 or 3;

R⁶ is H, methyl, halomethyl, methylcarbonyl or methoxycarbonyl;

R⁷ is H, cyano, methyl or halomethyl;

5 R⁸ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₃-C₆ cycloalkyl or C₂-C₆ alkoxyalkyl;

R⁹ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl, C₂-C₆ alkenyl, C₃-C₆ cycloalkyl or C₂-C₆ alkoxyalkyl;

R¹² is H, cyano, CH(=O), methyl or halomethyl;

each R¹⁵ is independently cyano, hydroxy or methoxy;

10 R¹⁷ is H, C₁-C₃ alkyl, C₃-C₆ cycloalkyl or C₂-C₆ alkoxyalkyl;

R¹⁸ is H, C₁-C₃ alkyl, C₁-C₃ haloalkyl or C₂-C₄ alkylcarbonyl;

each R¹⁹ is independently cyano, halogen, nitro, NR^{20a}R^{20b}, C(=O)NR^{20a}R^{20b} or -U-V-T; or C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₁-C₆ alkoxy, C₂-C₆ alkenyloxy, C₂-C₆ alkynyloxy, C₃-C₆ cycloalkoxy, C₁-C₆ alkylthio, C₁-C₆ alkylsulfonyl, C₂-C₆ alkylcarbonyl, C₃-C₆ alkenylcarbonyl, C₄-C₇ cycloalkylcarbonyl, C₂-C₆ alkoxycarbonyl, C₃-C₆ alkenyloxycarbonyl, C₂-C₆ alkylcarbonyloxy, C₃-C₆ alkenylcarbonyloxy or C₂-C₆ alkoxycarbonyloxy, each optionally substituted with up to 4 substituents independently selected from R²⁵;

20 each R^{20a} is independently H, cyano, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₂-C₄ alkylcarbonyl, C₂-C₅ alkoxycarbonyl or C₃-C₅ dialkylaminocarbonyl;

each R^{20b} is independently H, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₂-C₄ alkenyl, C₂-C₄ haloalkenyl, C₃-C₆ cycloalkyl or C₂-C₄ alkoxyalkyl;

25 each R²⁵ is independently cyano, halogen, hydroxy, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₃-C₆ cycloalkyl, C₁-C₂ alkoxy, C₁-C₂ haloalkoxy, C₁-C₂ alkylthio, C₂-C₃ alkylcarbonyl, C₂-C₃ haloalkylcarbonyl, C₂-C₃ alkoxycarbonyl or C₃-C₁₅ trialkylsilyl;

each U is independently a direct bond, O, S(=O)_n or NR²⁷;

30 each V is independently a direct bond; or C₁-C₃ alkylene, wherein up to 1 carbon atom is C(=O), optionally substituted with up to 2 substituents independently selected from halogen, hydroxy, C₁-C₂ alkyl, C₁-C₂ alkoxy and C₁-C₂ haloalkoxy;

- each T is independently phenyl optionally substituted with up to 3 substituents independently selected from R³⁰; or pyridinyl, pyrazolyl, imidazolyl, triazolyl, thiazolyl, oxazolyl, isoxazolyl, thienyl, piperidinyl, morpholinyl or piperazinyl, each optionally substituted with up to 3 substituents independently selected from R³⁰;
- each R²⁷ is independently H, cyano, methyl, methylcarbonyl or methoxycarbonyl; and each R³⁰ is independently halogen, cyano, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ alkoxy, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl.
3. A compound of Claim 2 wherein
- Z is N;
X is O;
R¹ is H, C(=O)H, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl;
Z is N;
X is O;
R¹ is H, C(=O)H, C₁-C₃ alkyl, C₁-C₃ haloalkyl, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl;
R² is H, C(=O)R⁸, C(=O)OR⁹, CH₂C(=O)R⁸, CH₂C(=O)OR⁹, CH₂OC(=O)R⁸, CH₂OC(=O)OR⁹ or benzyl;
R³ is H, CH(=O) or C(=O)R¹⁷;
R^{4a} is H, halogen, C₁-C₃ alkyl, or C₁-C₃ haloalkyl;
R^{4b} is H or C₁-C₂ alkyl;
R^{5a} and R^{5b} are each independently H, halogen, C₁-C₆ alkyl, C₁-C₆ haloalkyl or C₃-C₆ cycloalkyl;
Q is Q-1 through Q-9, Q-16 through Q-19, Q-32, Q-33, Q-45, Q-46, Q-47, Q-52 through Q-57 or Q-69;
R⁸ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl or C₂-C₆ alkoxyalkyl;
R⁹ is H, C₁-C₆ alkyl, C₁-C₆ haloalkyl or C₂-C₆ alkoxyalkyl;
R¹⁷ is H or methyl;
R¹⁸ is H or C₁-C₃ alkyl;
each R¹⁹ is independently halogen or -U-V-T; or C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₁-C₆ alkoxy, C₂-C₆ alkenyloxy, C₃-C₆ cycloalkoxy, C₂-C₆ alkylcarbonyl or C₂-C₆ alkoxy carbonyl, each optionally substituted with up to 3 substituents independently selected from R²⁵;
each R²⁵ is independently cyano, halogen, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₃-C₆ cycloalkyl, C₁-C₂ alkoxy, C₁-C₂ haloalkoxy or C₂-C₃ alkylcarbonyl;
each U is independently a direct bond, O or NR²⁷;
each V is independently a direct bond or C₁-C₃ alkylene;

- each T is independently phenyl optionally substituted with up to 2 substituents independently selected from R³⁰; or pyridinyl, pyrazolyl, imidazolyl, triazolyl or oxazolyl, each optionally substituted with up to 2 substituents independently selected from R³⁰; and
- 5 each R³⁰ is independently halogen, C₁-C₂ alkyl, C₁-C₂ haloalkyl, C₁-C₂ alkoxy, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl.
4. A compound of Claim 3 wherein
- R¹ is H, C(=O)H, methyl or methylcarbonyl;
- R² is H, C(=O)R⁸ or C(=O)OR⁹;
- 10 R³ is H;
- R^{4a} is H or C₁-C₂ alkyl;
- R^{4b} is H or methyl;
- L is O;
- R^{5a} and R^{5b} are each independently H, C₁-C₃ alkyl or cyclopropyl;
- 15 Q is Q-16, Q-32, Q-33, Q-52 through Q-55 or Q-57;
- p is 0, 1 or 2;
- R⁸ is H, C₁-C₂ alkyl or C₂-C₄ alkoxyalkyl;
- R⁹ is H, C₁-C₃ alkyl, C₁-C₃ haloalkyl or C₂-C₄ alkoxyalkyl;
- 20 each R¹⁹ is independently halogen or -U-V-T; or C₁-C₆ alkyl or C₃-C₆ cycloalkyl, each optionally substituted with up to 3 substituents independently selected from R²⁵;
- each R²⁵ is independently cyano, halogen, methyl, halomethyl, cyclopropyl, methoxy or methylcarbonyl;
- each U is independently a direct bond or O;
- each V is independently a direct bond or C₁-C₂ alkylene;
- 25 each T is independently phenyl or pyrazolyl, each optionally substituted with up to 2 substituents independently selected from R³⁰; and
- each R³⁰ is independently halogen, methyl, halomethyl, C₂-C₄ alkylcarbonyl or C₂-C₄ alkoxy carbonyl.
5. A compound of Claim 4 wherein
- 30 R¹ is methyl;
- R² is H or C(=O)R⁸;
- R^{4a} is methyl;
- R^{4b} is H;
- R^{5a} and R^{5b} are each independently H, methyl, ethyl or isopropyl;
- 35 Q is Q-32, Q-54 or Q-55;
- R⁸ is H or methyl;

- each R¹⁹ is independently halogen or -U-V-T; or C₁-C₃ alkyl or C₃-C₆ cycloalkyl, each optionally substituted with up to 3 substituents independently selected from R²⁵; each R²⁵ is independently halogen;
- each V is independently a direct bond or CH₂; and
- 5 each T is independently phenyl optionally substituted with up to 2 substituents independently selected from R³⁰.
6. A compound of Claim 5 wherein
- R^{5a} is H, methyl, ethyl or isopropyl;
- R^{5b} is H;
- 10 Q is Q-32 or Q-55;
- R⁸ is methyl;
- each R¹⁹ is independently halogen, -U-V-T, C₁-C₃ alkyl, trifluoromethyl or C₃-C₆ cycloalkyl; and
- each R³⁰ is independently halogen, trifluoromethyl or C₂-C₄ alkoxy carbonyl.
- 15 7. A compound of Claim 1 which is selected from the group:
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-cyclohexylethyl ester;
- N*-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-alanine 1-cyclohexylethyl ester;
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-(4-cyclohexylphenyl)ethyl ester;
- N*-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-alanine 1-(4-cyclohexylphenyl)ethyl ester;
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-cyclohexyl-2-methylpropyl ester;
- N*-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-alanine 1-(4-cyclopropylphenyl)ethyl ester;
- N*-[[3-[(acetyloxy)methoxy]-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-(4-cyclohexylphenyl)ethyl ester;
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-valine 1-(4-cyclohexylphenyl)ethyl ester;
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-cyclohexylpropyl ester;
- N*-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]-L-alanine 1-cyclohexylpropyl ester;
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine (1*S*)-1-cyclohexylethyl ester;
- N*-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine (1*S*)-1-(4-cyclohexylphenyl)ethyl ester;
- N*-[[4-(formylamino)-3-hydroxy-2-pyridinyl]carbonyl]-L-alanine 1-(4-cyclohexylphenyl)ethyl ester;

N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-(4-cyclohexylphenyl)propyl ester; and
N-[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]-L-alanine 1-(4-phenylcyclohexyl)ethyl ester.

8. A fungicidal composition comprising (a) a compound of Claim 1; and (b) at least one other fungicide.
9. A fungicidal composition comprising (a) a compound of Claim 1; and (b) at least one additional component selected from the group consisting of surfactants, solid diluents and
5 liquid diluents.
10. A method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of a compound of Claim 1.