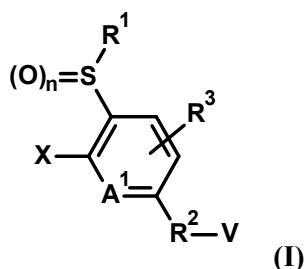


Reivindicaciones

1. Compuestos de la fórmula (I)



en la que

5 A¹ representa nitrógeno, =N⁺(O⁻)- o =C(R⁴)-,

10 R¹ representa (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alquenilo, (C₂-C₆)alqueniloxi-(C₁-C₆)alquilo, (C₂-C₆)haloalqueniloxi-(C₁-C₆)alquilo, (C₂-C₆)haloalquenilo, (C₂-C₆)cianoalquenilo, (C₂-C₆)alquinilo, (C₂-C₆)alquiniloxi-(C₁-C₆)alquilo, (C₂-C₆)haloalquiniloxi-(C₁-C₆)alquilo, (C₂-C₆)haloalquinilo, (C₂-C₆)cianoalquinilo, (C₃-C₈)cicloalquilo, (C₃-C₈)cicloalquilo-(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo-(C₃-C₈)cicloalquilo, halógeno(C₃-C₈)cicloalquilo, amino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquil-amino, (C₃-C₈)cicloalquilamino, (C₁-C₆)alquilcarbonilo-amino, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)haloalquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo-
 15 (C₁-C₆)alquilo, (C₁-C₆)haloalquilsulfinil-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)haloalquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilcarbonilo-(C₁-C₆)alquilo, (C₁-C₆)haloalquilcarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)haloalcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilamino, aminosulfonil-(C₁-C₆)alquilo, (C₁-C₆)alquilaminosulfonil-(C₁-C₆)alquilo, di-(C₁-C₆)alquil-aminosulfonil-(C₁-C₆)alquilo,

25 o representa (C₁-C₆)alquilo, (C₁-C₆)alcoxi, (C₂-C₆)alquenilo, (C₂-C₆)alquinilo, (C₃-C₈)cicloalquilo sustituido en cada caso opcionalmente en forma simple o múltiple, idéntico o distinto, por arilo, hetarilo o heterociclilo, donde arilo, hetarilo o heterociclilo en cada caso opcionalmente en forma simple o múltiple, idéntico o distinto pueden estar sustituidos por halógeno, ciano, nitro, hidroxilo, amino, carboxi, carbamoilo, aminosulfonilo, (C₁-C₆)alquilo, (C₃-C₆)cicloalquilo, (C₁-C₆)alcoxi, (C₁-C₆)haloalquilo, (C₁-C₆)haloalcoxi, (C₁-C₆)alquiltio, (C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfimino, (C₁-

C₆)alquilsulfimino-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfimino-(C₂-C₆)alquilcarbonilo, (C₁-C₆)alquilsulfoximino, (C₁-C₆)alquilsulfoximino-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoximino-(C₂-C₆)alquilcarbonilo, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)alquilcarbonilo, (C₃-C₆)trialquilsililo o bencilo, o

- 5 R¹ representa arilo, hetarilo o heterociclilo sustituidos en cada caso opcionalmente en forma simple o múltiple, idéntico o distinto por halógeno, ciano, nitro, hidroxí, amino, carboxi, carbamoyl, (C₁-C₆)alquilo, (C₃-C₈)cicloalquilo, (C₁-C₆)-alcoxi, (C₁-C₆)haloalquilo, (C₁-C₆)haloalcoxi, (C₁-C₆)alquiltio, (C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfimino, (C₁-C₆)alquilsulfimino-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfimino-(C₂-C₆)alquilcarbonilo, (C₁-C₆)alquilsulfoximino, (C₁-C₆)alquilsulfoximino-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoximino-(C₂-C₆)alquilcarbonilo, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)alquilcarbonilo, (C₃-C₆)trialquilsililo, (=O) (sólo en el caso de heterociclilo) o (=O)₂ (sólo en el caso de heterociclilo),
- 10
- 15 R² representa un anillo opcionalmente sustituido en forma simple o múltiple, idéntico o distinto saturado, parcialmente saturado o heteroaromático, en el que al menos un átomo C está sustituido por un heteroátomo, donde al menos puede estar contenido un grupo carbonilo y/o donde como sustituyentes se consideran: ciano, carboxilo, halógeno, nitro, acetilo, hidroxí, amino, SCN, tri-(C₁-C₆)alquilsilil, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, hidroxycarbonilo-(C₁-C₆)-alcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alquenilo, (C₂-C₆)haloalquenilo, (C₂-C₆)cianoalquenilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquinilo, (C₂-C₆)cianoalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)cianoalcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alcoxi, (C₁-C₆)alcoxi-(C₁-C₆)alcoxi, (C₁-C₆)alcoxiimino, -
- 20
- 25 N=C(H)-O(C₁-C₆)alquilo, -C(H)=N-O(C₁-C₆)alquilo, (C₁-C₆)haloalquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo, (C₁-C₆)haloalquilsulfinilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)haloalquilsulfonilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoniloxi, (C₁-C₆)alquilcarbonilo, (C₁-C₆)haloalquilcarbonilo, (C₁-C₆)alquilcarboniloxi, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, di-(C₁-C₆)alquilaminocarbonilo, (C₂-C₆)alquenilaminocarbonilo, di-(C₂-C₆)-alquenilaminocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino,
- 30
- 35 aminosulfonilo, (C₁-C₆)alquilaminosulfonilo, di-(C₁-C₆)alquilaminosulfonilo, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₃-C₈)cicloalquilamino,

(C₁-C₆)alquilcarbonilamino,

- V representa un anillo opcionalmente sustituido en forma simple o múltiple, idéntico o distinto, saturado, parcialmente saturado o heteroaromático, en el que al menos un átomo C está sustituido por un heteroátomo o representa un anillo aromático sustituido en forma simple o múltiple, idéntico o distinto, donde al menos puede estar contenido un grupo carbonilo y/o donde como sustituyentes se consideran: ciano, carboxilo, halógeno, nitro, acetilo, hidroxilo, amino, SCN, tri-(C₁-C₆)alquilsilil, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, hidroxicarbonilo-(C₁-C₆)-alcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alquenilo, (C₂-C₆)haloalquenilo, (C₂-C₆)cianoalquenilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquinilo, (C₂-C₆)cianoalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)cianoalcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alcoxi, (C₁-C₆)alcoxi-(C₁-C₆)alcoxi, (C₁-C₆)alcoxiimino, -N=C(H)-O(C₁-C₆)alquilo, -C(H)=N-O(C₁-C₆)alquilo, (C₁-C₆)haloalquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo, (C₁-C₆)haloalquilsulfinilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)haloalquilsulfonilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoniloxi, (C₁-C₆)alquilcarbonilo, (C₁-C₆)haloalquilcarbonilo, (C₁-C₆)alquilcarboniloxi, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, di-(C₁-C₆)alquilaminocarbonilo, (C₂-C₆)alquenilaminocarbonilo, di-(C₂-C₆)-alquenilaminocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino, aminosulfonilo, (C₁-C₆)alquilaminosulfonilo, di-(C₁-C₆)alquilaminosulfonilo, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₃-C₈)cicloalquilamino, (C₁-C₆)alquilcarbonilamino,
- R³ representa hidrógeno, ciano, halógeno, nitro, acetilo, hidroxilo, amino, SCN, tri-(C₁-C₆)alquilsilil, (C₃-C₈)cicloalquilo, (C₃-C₈)cicloalquilo-(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo, (C₃-C₈)cicloalquilo, halógeno(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, hidroxicarbonilo-(C₁-C₆)-alcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alquenilo, (C₂-C₆)haloalquenilo, (C₂-C₆)cianoalquenilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquinilo, (C₂-C₆)cianoalquinilo, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)cianoalcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alcoxi, (C₁-C₆)alcoxi-(C₁-C₆)alcoxi, (C₁-C₆)alquilhidroxiimino, (C₁-C₆)alcoxiimino, (C₁-C₆)alquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)haloalquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-

- 5 C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo, (C₁-C₆)haloalquilsulfinilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)haloalquilsulfonilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoniloxi, (C₁-C₆)alquilcarbonilo, (C₁-C₆)alquiltiocarbonilo, (C₁-C₆)haloalquilcarbonilo, (C₁-C₆)alquilcarboniloxi, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminocarbonilo, di-(C₁-C₆)alquil-aminotiocarbonilo, (C₂-C₆)alquenilaminocarbonilo, di-(C₂-C₆)-alquenilaminocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino, aminosulfonilo, (C₁-C₆)alquilaminosulfonilo, di-(C₁-C₆)alquil-aminosulfonilo, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquil-aminotiocarbonilo, (C₃-C₈)cicloalquilamino, NHCO-(C₁-C₆)alquilo ((C₁-C₆)alquilcarbonilamino),
- 10
- 15 representa en cada caso opcionalmente en forma simple o múltiple, idéntico o distinto, en forma independiente arilo o hetarilo sustituido, donde (en el caso de hetarilo) opcionalmente puede contener al menos un grupo carbonilo y/o donde como sustituyentes se consideran: ciano, carboxilo, halógeno, nitro, acetilo, hidroxilo, amino, SCN, tri-(C₁-C₆)alquilsilil, (C₃-C₈)cicloalquilo, (C₃-C₈)cicloalquilo-(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo-(C₃-C₈)cicloalquilo, halógeno(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, hidroxycarbonilo-(C₁-C₆)-alcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alquenilo, (C₂-C₆)haloalquenilo, (C₂-C₆)cianoalquenilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquinilo, (C₂-C₆)cianoalquinilo, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)cianoalcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alcoxi, (C₁-C₆)alcoxi-(C₁-C₆)alcoxi, (C₁-C₆)alquilhidroxiimino, (C₁-C₆)alcoxiimino, (C₁-C₆)alquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)haloalquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo, (C₁-C₆)haloalquilsulfinilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)haloalquilsulfonilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoniloxi, (C₁-C₆)alquilcarbonilo, (C₁-C₆)haloalquilcarbonilo, (C₁-C₆)alquilcarboniloxi, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, di-(C₁-C₆)alquilaminocarbonilo, (C₂-C₆)alquenilaminocarbonilo, di-(C₂-C₆)-alquenilaminocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino, aminosulfonilo, (C₁-C₆)alquilaminosulfonilo, di-(C₁-C₆)alquilaminosulfonilo, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₃-C₈)cicloalquilamino, (C₁-C₆)alquilcarbonilamino,
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- 25
- 30
- 35

- R⁴ representa hidrógeno, ciano, halógeno, nitro, acetilo, hidroxilo, amina, SCN, tri-(C₁-C₆)alquilsilil, (C₃-C₈)cicloalquilo, (C₃-C₈)cicloalquilo-(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo-(C₃-C₈)cicloalquilo, halógeno(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, hidroxycarbonilo-(C₁-C₆)-alcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)cianoalcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alcoxi, (C₁-C₆)alcoxi-(C₁-C₆)alcoxi, (C₁-C₆)alquilhidroxiamino, (C₁-C₆)alcoxiimino, (C₁-C₆)alquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)haloalquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfino, (C₁-C₆)haloalquilsulfino, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfino, (C₁-C₆)alquilsulfino-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfono, (C₁-C₆)haloalquilsulfono, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfono, (C₁-C₆)alquilsulfono-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)alquiltiocarbonilo, (C₁-C₆)haloalquiltiocarbonilo, (C₁-C₆)alquiltiocarbonilo, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₂-C₆)alquenoaminocarbonilo, di-(C₂-C₆)alquenoaminocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino, aminosulfono, (C₁-C₆)alquilaminosulfono, di-(C₁-C₆)alquilaminosulfono, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₃-C₈)cicloalquilamino o -NHCO-(C₁-C₆)alquilo ((C₁-C₆)alquilcarbonilamino),

X representa un sistema de anillos condensados, bi- o tricíclico, parcialmente saturado o saturado, heterocíclico o heteroaromático de 8, 9 10, 11 o 12 miembros, que puede contener al menos un grupo carbonilo y/o donde el sistema de anillos opcionalmente pueden estar sustituidos en forma simple o múltiple, idéntico o distinto y donde los sustituyentes pueden ser seleccionados independientemente de hidrógeno, ciano, halógeno, nitro, acetilo, hidroxilo, amina, SCN, tri-(C₁-C₆)alquilsilil, (C₃-C₈)cicloalquilo, (C₃-C₈)cicloalquilo-(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo-(C₃-C₈)cicloalquilo, halógeno(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, hidroxycarbonilo-(C₁-C₆)-alcoxi, (C₁-C₆)alcoxycarbonil-(C₁-C₆)alquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueno, (C₂-C₆)haloalqueno, (C₂-C₆)cianoalqueno, (C₂-C₆)alquino, (C₂-C₆)alquinilo, (C₂-C₆)alquinilo, (C₂-C₆)haloalquino, (C₂-C₆)cianoalquino, (C₁-C_{6</}

5 C₆)haloalquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo, (C₁-C₆)haloalquilsulfinilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)haloalquilsulfonilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfoniloxi, (C₁-C₆)alquilcarbonilo, (C₁-C₆)alquilcarbonilo-(C₁-C₆)alquilo, (C₁-C₆)alquiltiocarbonilo, (C₁-C₆)haloalquilcarbonilo, (C₁-C₆)alquilcarboniloxi, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquil-aminocarbonilo, di-(C₁-C₆)alquil-aminotiocarbonilo, (C₂-C₆)alquenilaminocarbonilo, di-(C₂-C₆)-alquenilaminocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino, aminosulfonilo, (C₁-C₆)alquilaminosulfonilo, di-(C₁-C₆)alquilaminosulfonilo, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquil-aminotiocarbonilo, (C₃-C₈)cicloalquilamino, NHCO-(C₁-C₆)alquilo ((C₁-C₆)alquilcarbonilamino),

20 o donde los sustituyentes pueden ser seleccionados independientemente de fenilo o de un anillo heteroaromático de 5 o 6 miembros, en el que el fenilo o el anillo opcionalmente pueden estar sustituidos en forma simple o múltiple, idéntico o distinto por C₁-C₆-alquilo, C₂-C₆-alquenilo, C₂-C₆-alquinilo, C₃-C₆-cicloalquilo, C₁-C₆-haloalquilo, C₂-C₆-haloalquenilo, C₂-C₆-haloalquinilo, C₃-C₆-halocicloalquilo, halógeno, CN, NO₂, C₁-C₄-alcoxi, C₁-C₄-haloalcoxi,

n representa 0, 1 o 2.

2. Compuestos de la fórmula (I) de acuerdo a la reivindicación 1, en la que

A¹ representa nitrógeno, =N⁺(O⁻)- o =C(R⁴)-,

25 R¹ representa (C₁-C₄)alquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₁-C₄)haloalcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)alqueniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalqueniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalquenilo, (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)alquiniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalquiniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, halógeno(C₃-C₆)cicloalquilo, (C₁-C₄)alquilamino, di-(C₁-C₄)alquil-amino, (C₃-C₆)cicloalquilamino, (C₁-C₄)alquilcarbonilo-amino, (C₁-C₄)alquiltio-(C₁-C₄)alquilo, (C₁-C₄)haloalquiltio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo, (C₁-C₄)haloalquilsulfinil-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo, (C₁-C₄)alquilcarbonilo-(C₁-C₄)alquilo, (C₁-C₄)haloalquilcarbonil-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilamino,

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- 5 o representa (C₁-C₄)alquilo, (C₁-C₄)alcoxi, (C₂-C₄)alquenilo, (C₂-C₄)alquinilo, (C₃-C₆)cicloalquilo sustituido en cada caso opcionalmente en forma simple o doble, idéntico o distinto por arilo, hetarilo o heterociclilo, donde arilo, hetarilo o heterociclilo pueden estar sustituidos opcionalmente en cada caso en forma simple o doble, idéntico o distinto por
- 10 halógeno, ciano, carbamoil, aminosulfonilo, (C₁-C₄)alquilo, (C₃-C₄)cicloalquilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalquilo, (C₁-C₄)haloalcoxi, (C₁-C₄)alquiltio, (C₁-C₄)alquilsulfinilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)alquilsulfimino, o
- 10 R¹ representa arilo, hetarilo o heterociclilo sustituido en cada caso opcionalmente en forma simple o doble, idéntico o distinto por halógeno, ciano, carbamoil, (C₁-C₄)alquilo, (C₃-C₆)cicloalquilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalquilo, (C₁-C₄)haloalcoxi, (C₁-C₄)alquiltio, (C₁-C₄)alquilsulfinilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)alquilsulfimino, (C₁-C₄)alquilsulfoximino, (C₁-C₄)alquilcarbonilo, (C₃-C₄)trialquilsililo, (=O) (sólo en el caso de heterociclilo) o (=O)₂ (sólo en el caso de heterociclilo),
- 15 R² representa un anillo saturado, parcialmente saturado o heteroaromático opcionalmente sustituido en cada caso en forma simple o doble, idéntico o distinto, en el que al menos un átomo C está sustituido por un heteroátomo del grupo N, O o S, donde al menos puede estar contenido un grupo carbonilo y/o donde como sustituyentes se consideran: ciano, halógeno, nitro, acetilo, amino, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo,
- 20 (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)cianoalcoxi, (C₁-C₄)alcoxi-(C₁-C₄)alcoxi, (C₁-C₄)alcoxiimino, -N=C(H)-O(C₁-C₄)alquilo, -C(H)=N-O(C₁-C₄)alquilo, (C₁-C₄)haloalquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)alquiltio, (C₁-C₄)haloalquiltio, (C₁-C₄)alquiltio-
- 25 (C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfinilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquilaminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino,
- 30 aminosulfonilo, (C₁-C₄)alquilaminosulfonilo, di-(C₁-C₄)alquilaminosulfonilo, (C₁-C₄)alquilcarbonilamino
- 35 V representa un anillo saturado, parcialmente saturado o heteroaromático opcionalmente sustituido en cada caso en forma simple o doble, idéntico o distinto, en el que al menos un átomo C está sustituido por un heteroátomo del grupo N, O o S, o representa un anillo aromático opcionalmente sustituido en cada caso en forma simple o doble, idéntico o distinto, donde al menos puede estar contenido un grupo carbonilo y/o donde como

sustituyentes se consideran: ciano, halógeno, nitro, acetilo, amino, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo, (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)cianoalcoxi, (C₁-C₄)alcoxi-(C₁-C₄)alcoxi, (C₁-C₄)alcoxiimino, -N=C(H)-O(C₁-C₄)alquilo, -C(H)=N-O(C₁-C₄)alquilo, (C₁-C₄)haloalquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)alquiltio, (C₁-C₄)haloalquiltio, (C₁-C₄)alquiltio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfinilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquil-aminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino, aminosulfinilo, (C₁-C₄)alquilaminosulfinilo, di-(C₁-C₄)alquilaminosulfinilo, (C₁-C₄)alquilcarbonilamino

R³ representa hidrógeno, ciano, halógeno, nitro, acetilo, hidroxi, amino, SCN, tri-(C₁-C₄)alquilsilil, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, halógeno(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo, (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)cianoalcoxi, (C₁-C₄)alcoxi-(C₁-C₄)alcoxi, (C₁-C₄)alquilhidroxiimino, (C₁-C₄)alcoxiimino, (C₁-C₄)alquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)haloalquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)alqultio, (C₁-C₄)haloalqultio, (C₁-C₄)alqultio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfínulo, (C₁-C₄)haloalquilsulfínulo, (C₁-C₄)alquilsulfínulo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, aminotiocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquil-aminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino, aminosulfonilo, (C₁-C₄)alquilaminosulfonilo, di-(C₁-C₄)alquil-aminosulfonilo, aminotiocarbonilo, NHCO-(C₁-C₄)alquilo ((C₁-C₄)alquilcarbonilamino),

representa además preferentemente en cada caso opcionalmente en forma simple o doble, idéntico o distinto, en forma independiente fenilo o hetarilo, donde (en el caso de hetarilo) opcionalmente puede contener al menos un grupo carbonilo y/o donde como sustituyentes se consideran: ciano, halógeno, nitro, acetilo, amino, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, halógeno(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo,

- 5 (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)cianoalcoxi, (C₁-C₄)alcoxi-(C₁-C₄)alcoxi, (C₁-C₄)alquilhidroxiimino, (C₁-C₄)alcoxiimino, (C₁-C₄)alquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)haloalquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)alquiltio, (C₁-C₄)haloalquiltio, (C₁-C₄)alquiltio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfinilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquilaminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino, aminosulfonilo, (C₁-C₄)alquilaminosulfonilo, di-(C₁-C₄)alquilaminosulfonilo, NHCO-(C₁-C₄)alquilo ((C₁-C₄)alquilcarbonilamino),
- 10
- 15 R⁴ representa hidrógeno, ciano, halógeno, nitro, acetilo, hidroxilo, amino, SCN, tri-(C₁-C₄)alquilsilil, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, halógeno(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo, (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)cianoalcoxi, (C₁-C₄)alcoxi-(C₁-C₄)alcoxi, (C₁-C₄)alquilhidroxiimino, (C₁-C₄)alcoxiimino, (C₁-C₄)alquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)haloalquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)alquiltio, (C₁-C₄)haloalquiltio, (C₁-C₄)alquiltio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfinilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, aminotiocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquilaminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino, aminosulfonilo, (C₁-C₄)alquilaminosulfonilo, di-(C₁-C₄)alquilaminosulfonilo, aminotiocarbonilo o NHCO-(C₁-C₄)alquilo ((C₁-C₄)alquilcarbonilamino),
- 20
- 25
- 30 X representa un sistema de anillos condensados heteroaromático, bi- o tricíclico de 8, 9, 10, 11 o 12 miembros, en el que el sistema de anillos opcionalmente está sustituido en forma simple o múltiple, idéntico o distinto, y donde los sustituyentes pueden ser seleccionados independientemente de hidrógeno, ciano, halógeno, nitro, acetilo, hidroxilo, amino, SCN, tri-(C₁-C₆)alquilsilil, (C₃-C₈)cicloalquilo, (C₃-C₈)cicloalquilo-(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo-(C₃-C₈)cicloalquilo, halógeno(C₃-C₈)cicloalquilo, (C₁-C₆)alquilo, (C₁-C₆)haloalquilo, (C₁-C₆)cianoalquilo, (C₁-C₆)hidroxialquilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilo, (C₂-C₆)alquenilo, (C₂-C₆)haloalquenilo, (C₂-C₆)cianoalquenilo, (C₂-C₆)alquinilo, (C₂-C₆)alquiniloxi-(C₁-C₄)alquilo, (C₂-C₆)haloalquinilo, (C₁-C₆)alcoxi, (C₁-C₆)haloalcoxi, (C₁-C₆)haloalcoxi-(C₁-C₆)alquilo, (C₂-C₆)alqueniloxi-(C₁-C₆)alquilo, (C₂-C₆)haloalqueniloxi-
- 35

5 (C₁-C₆)alquilo, (C₁-C₆)cianoalcoxi, (C₁-C₆)alcoxi-(C₁-C₆)alcoxi, (C₁-C₆)alquilhidroxiimino, (C₁-C₆)alcoxiimino, (C₁-C₆)alquilo-(C₁-C₆)alcoxiimino, (C₁-C₆)alquiltio, (C₁-C₆)haloalquiltio, (C₁-C₆)alcoxi-(C₁-C₆)alquiltio, (C₁-C₆)alquiltio-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfinilo, (C₁-C₆)haloalquilsulfinilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfinilo, (C₁-C₆)alquilsulfinilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)haloalquilsulfonilo, (C₁-C₆)alcoxi-(C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilsulfonilo-(C₁-C₆)alquilo, (C₁-C₆)alquilsulfonilo, (C₁-C₆)alquilcarbonilo, (C₁-C₆)alquilcarbonilo-(C₁-C₆)alquilo, (C₁-C₆)alquiltiocarbonilo, (C₁-C₆)haloalquiltiocarbonilo, (C₁-C₆)alquilcarbonilo, (C₁-C₆)alquilcarbonilo-(C₁-C₆)alquilo, (C₁-C₆)alcoxycarbonilo, (C₁-C₆)haloalcoxycarbonilo, aminocarbonilo, (C₁-C₆)alquilaminocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₃-C₈)cicloalquilaminocarbonilo, (C₁-C₆)alquilsulfonilamino, (C₁-C₆)alquilamino, di-(C₁-C₆)alquilamino, aminosulfonilo, (C₁-C₆)alquilaminosulfonilo, di-(C₁-C₆)alquilaminosulfonilo, (C₁-C₆)alquilsulfoximino, aminotiocarbonilo, (C₁-C₆)alquilaminotiocarbonilo, di-(C₁-C₆)alquilaminotiocarbonilo, (C₃-C₈)cicloalquilamino, NHCO-(C₁-C₆)alquilo ((C₁-C₆)alquilcarbonilamino),

20 o donde los sustituyentes pueden ser seleccionados independientemente de fenilo o de un anillo heteroaromático de 5 o 6 miembros, en el que el fenilo o el anillo opcionalmente pueden estar sustituidos en forma simple o múltiple, idéntico o distinto por C₁-C₆-alquilo, C₂-C₆-alquenilo, C₂-C₆-alquinilo, C₃-C₆-cicloalquilo, C₁-C₆-haloalquilo, C₂-C₆-haloalquenilo, C₂-C₆-haloalquinilo, C₃-C₆-halocicloalquilo, halógeno, CN, C₁-C₄-alcoxi, C₁-C₄-haloalcoxi,

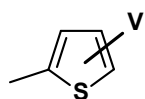
n representa 0, 1 o 2.

3. Compuestos de la fórmula (I) de acuerdo a la reivindicación 1, en la que

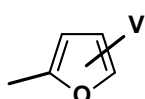
A¹ representa nitrógeno o =C(R⁴)-,

25 R¹ representa (C₁-C₄)alquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)haloalquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₃-C₆)cicloalquilo, (C₁-C₄)alquiltio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo o (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo,

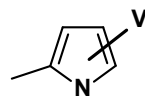
30 R^{2-V} representa un anillo de 5 o 6 miembros, opcionalmente sustituido en forma simple o doble, idéntico o distinto, de la serie Q-1 a Q-80, donde como sustituyentes se consideran: ciano, halógeno, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)alcoxi o (C₁-C₄)haloalcoxi,



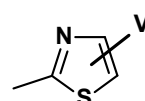
Q-1



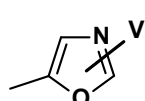
Q-2



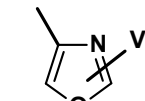
Q-3



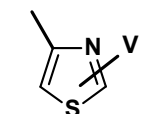
Q-4



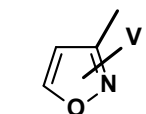
Q-5



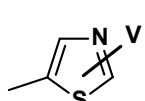
Q-6



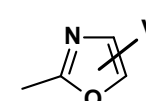
Q-7



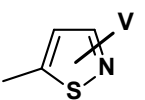
Q-8



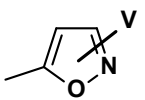
Q-9



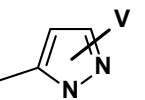
Q-10



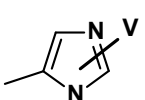
Q-11



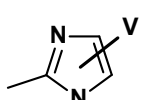
Q-12



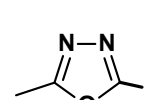
Q-13



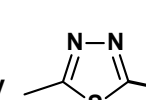
Q-14



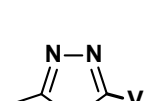
Q-15



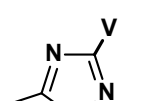
Q-16



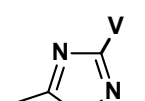
Q-17



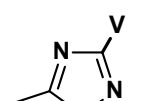
Q-18



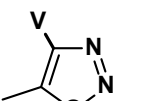
Q-19



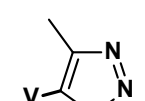
Q-20



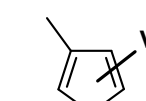
Q-21



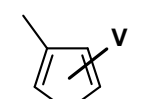
Q-22



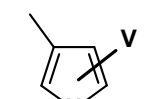
Q-23



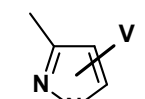
Q-24



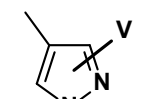
Q-25



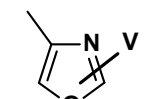
Q-26



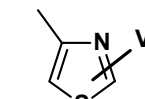
Q-27



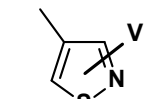
Q-28



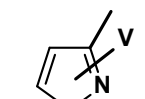
Q-29



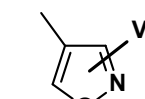
Q-30



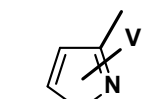
Q-31



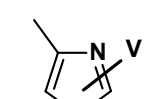
Q-32



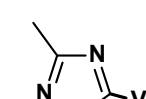
Q-33



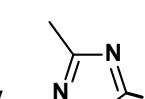
Q-34



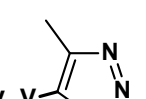
Q-35



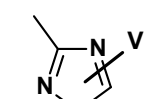
Q-36



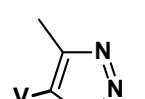
Q-37



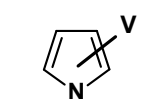
Q-38



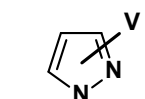
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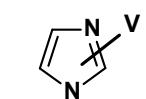
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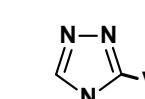
Q-41



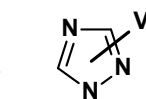
Q-42



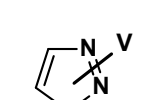
Q-43



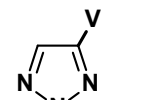
Q-44



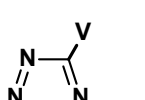
Q-45



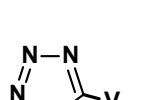
Q-46



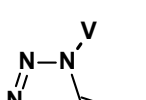
Q-47



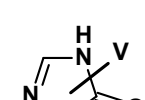
Q-48



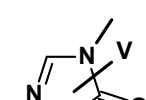
Q-49



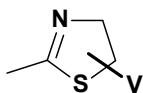
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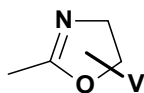
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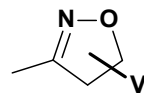
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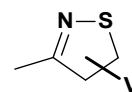
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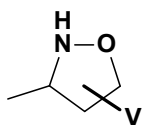
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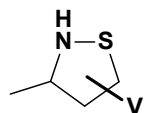
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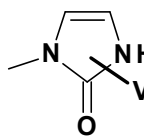
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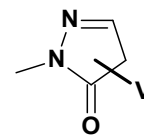
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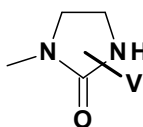
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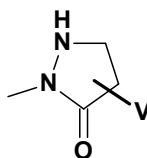
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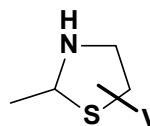
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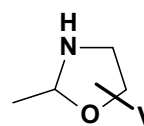
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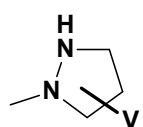
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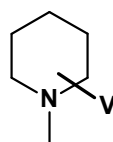
Q-63



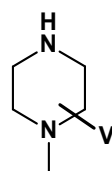
Q-64



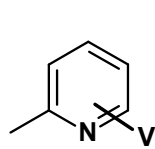
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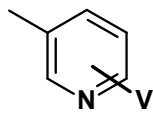
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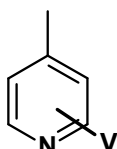
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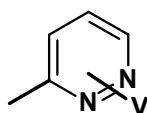
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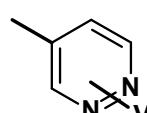
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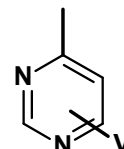
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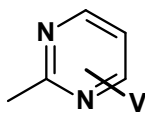
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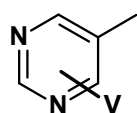
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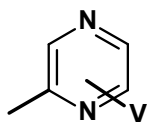
Q-73



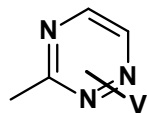
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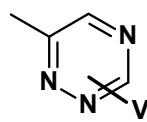
Q-75



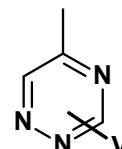
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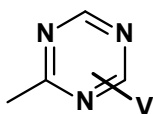
Q-77



Q-78



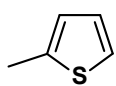
Q-79



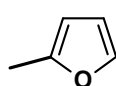
Q-80

donde

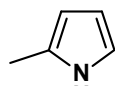
V representa un anillo de 5 o 6 miembros, opcionalmente sustituido en forma simple o doble, idéntico o distinto, de la serie V-1 a V-101, donde como sustituyentes se consideran: ciano, halógeno, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)alcoxi o (C₁-C₄)haloalcoxi,



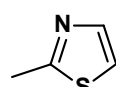
V-1



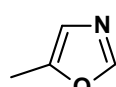
V-2



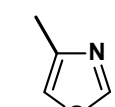
V-3



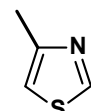
V-4



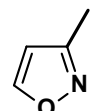
V-5



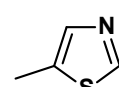
V-6



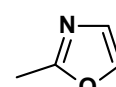
V-7



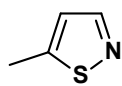
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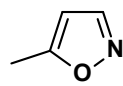
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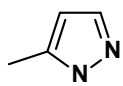
V-10



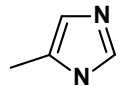
V-11



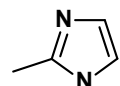
V-12



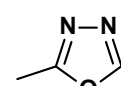
V-13



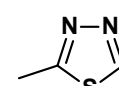
V-14



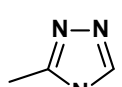
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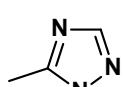
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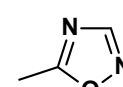
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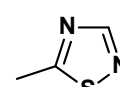
V-18



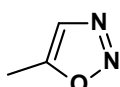
V-19



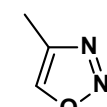
V-20



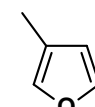
V-21



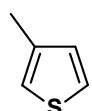
V-22



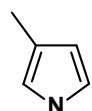
V-23



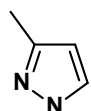
V-24



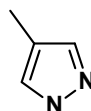
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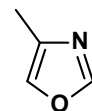
V-26



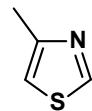
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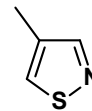
V-28



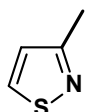
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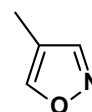
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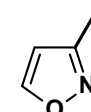
V-31



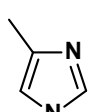
V-32



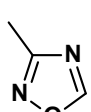
V-33



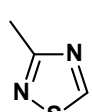
V-34



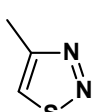
V-35



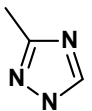
V-36



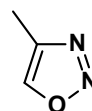
V-37



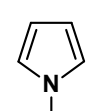
V-38



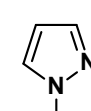
V-39



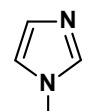
V-40



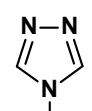
V-41



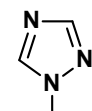
V-42



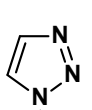
V-43



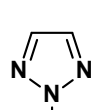
V-44



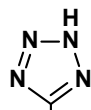
V-45



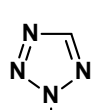
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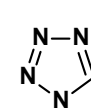
V-47



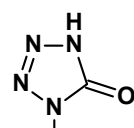
V-48



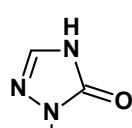
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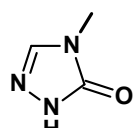
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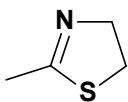
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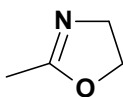
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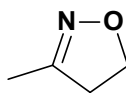
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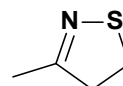
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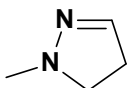
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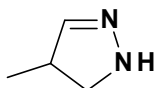
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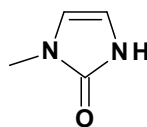
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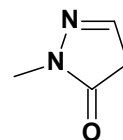
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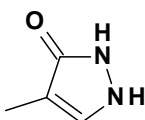
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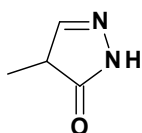
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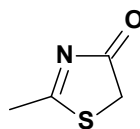
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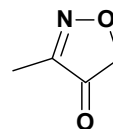
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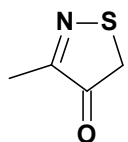
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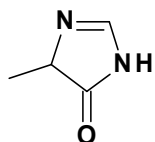
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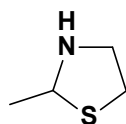
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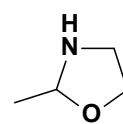
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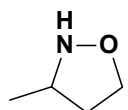
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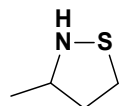
V-68



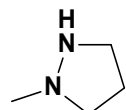
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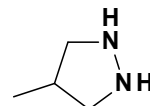
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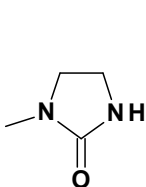
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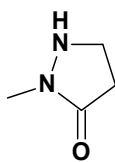
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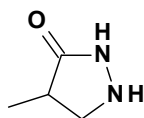
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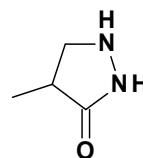
V-74



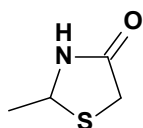
V-75



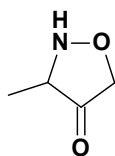
V-76



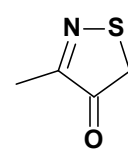
V-77



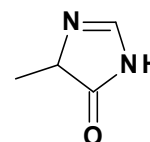
V-78



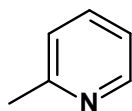
V-79



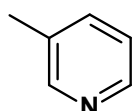
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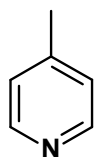
V-81



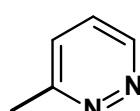
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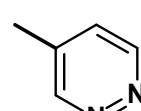
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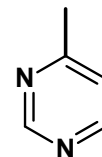
V-84



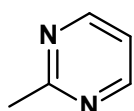
V-85



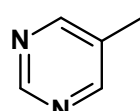
V-86



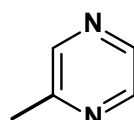
V-87



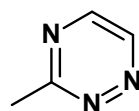
V-88



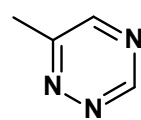
V-89



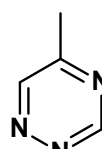
V-90



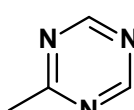
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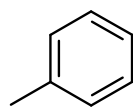
V-92



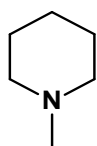
V-93



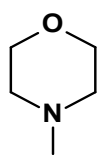
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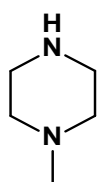
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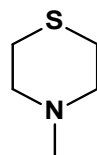
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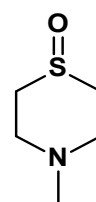
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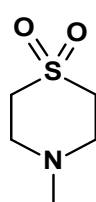
V-98



V-99



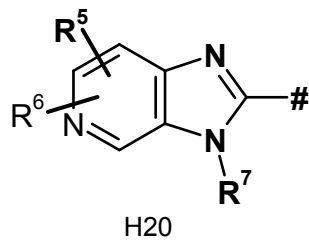
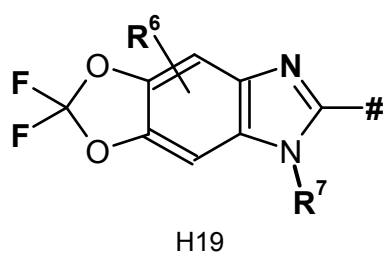
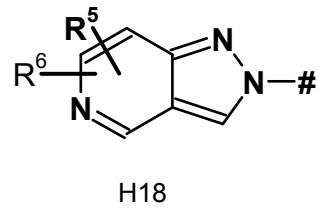
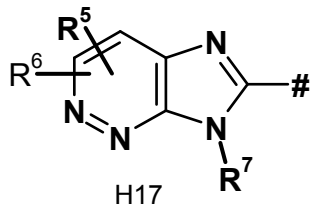
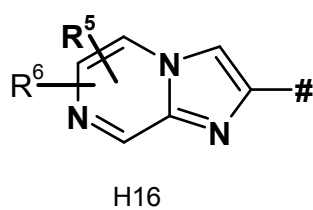
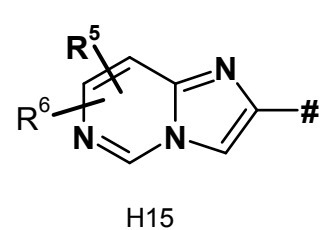
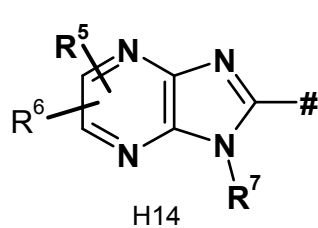
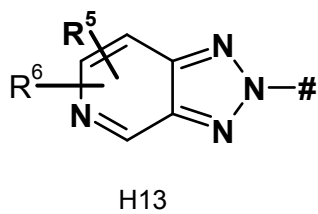
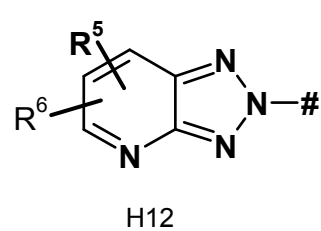
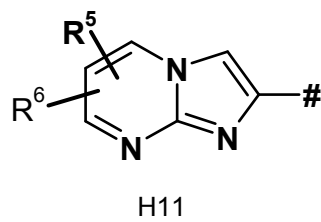
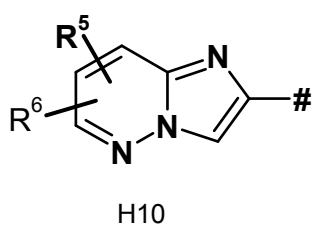
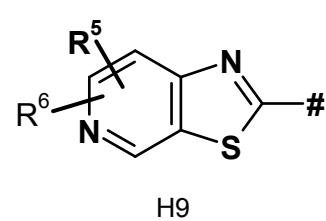
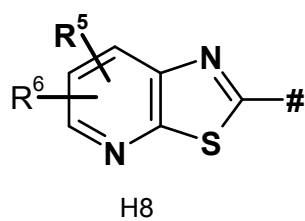
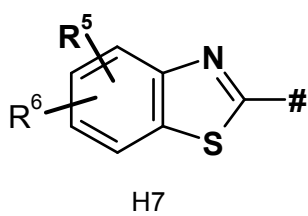
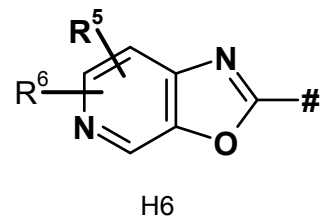
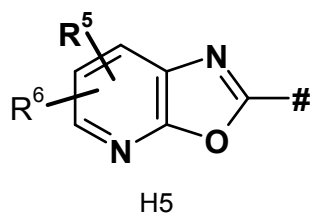
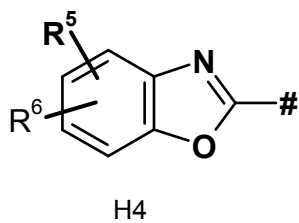
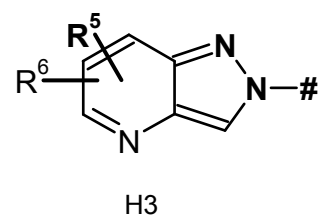
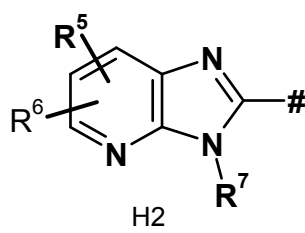
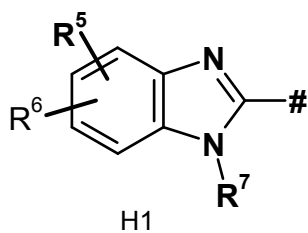
V-100



V-101

R³ representa hidrógeno, ciano, halógeno, nitro, hidroxil, amino, SCN, tri-(C₁-C₄)alquilsilil,

- 5 (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, halógeno(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo, (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₂-C₄)cianoalquinilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)cianoalcoxi, (C₁-C₄)alquilhidroxiimino, (C₁-C₄)alcoxiimino, (C₁-C₄)alquilo-(C₁-C₄)alcoxiimino, (C₁-C₄)alquiltio, (C₁-C₄)haloalquiltio, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfinilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquilaminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino, aminosulfonilo, (C₁-C₄)alquilaminosulfonilo, di-(C₁-C₄)alquil-aminosulfonilo o NHCO-(C₁-C₄)alquilo ((C₁-C₄)alquilcarbonilamino),
- 10
- R⁴ representa hidrógeno, halógeno, ciano o (C₁-C₄)alquilo,
- X representa un sistema de anillos condensados heteroaromático, bi- o tricíclico, de 9 o 12
- 15 miembros, de la serie H1 a H20,



5 R⁵, R⁶ representan independiente uno de otro, hidrógeno, ciano, halógeno, (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₂-C₄)alquenilo, (C₂-C₄)haloalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)haloalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alcoxi, (C₁-C₄)haloalcoxi, (C₁-C₄)alcoxiimino, (C₁-C₄)alquiltio, (C₁-C₄)haloalquiltio, (C₁-C₄)alquilsulfinilo, (C₁-C₄)haloalquilsulfinilo, (C₁-C₄)alquilsulfonilo, (C₁-C₄)haloalquilsulfonilo, (C₁-C₄)alquilsulfoniloxi, (C₁-C₄)alquilcarbonilo, (C₁-C₄)haloalquilcarbonilo, aminocarbonilo, (C₁-C₄)alquilaminocarbonilo, di-(C₁-C₄)alquil-aminocarbonilo, (C₁-C₄)alquilsulfonilamino, (C₁-C₄)alquilamino, di-(C₁-C₄)alquilamino, aminosulfonilo, (C₁-C₄)alquilaminosulfonilo o di-(C₁-C₄)alquilaminosulfonilo,

15 R⁷ representa (C₁-C₄)alquilo, (C₁-C₄)haloalquilo, (C₁-C₄)cianoalquilo, (C₁-C₄)hidroxialquilo, (C₁-C₄)alcoxi-(C₁-C₄)alquilo, (C₁-C₄)haloalcoxi-(C₁-C₄)alquilo, (C₂-C₄)alquenilo, (C₂-C₄)alqueniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalqueniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalquenilo, (C₂-C₄)cianoalquenilo, (C₂-C₄)alquinilo, (C₂-C₄)alquiniloxi-(C₁-C₄)alquilo, (C₂-C₄)haloalquinilo, (C₃-C₆)cicloalquilo, (C₃-C₆)cicloalquilo-(C₃-C₆)cicloalquilo, (C₁-C₄)alquilo-(C₃-C₆)cicloalquilo, halógeno(C₃-C₆)cicloalquilo, (C₁-C₄)alquiltio-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfinilo-(C₁-C₄)alquilo, (C₁-C₄)alquilsulfonilo-(C₁-C₄)alquilo o (C₁-C₄)alquilcarbonilo-(C₁-C₄)alquilo,

n representa 0, 1 o 2.

20 4. Compuestos de la fórmula (I) de acuerdo a la reivindicación 1, en la que

A¹ representa nitrógeno o =C(R⁴)-,

R¹ representa metilo, etilo, n-propilo, i-propilo, ciclo-propilo, n-butilo, i-butilo, terc-butilo, ciclo-butilo, flúorometilo, diflúorometilo, triflúorometilo, flúoroetilo, diflúoroetilo, triflúoroetilo, tetraflúoroetilo o pentaflúoroetilo,

25 R²-V representa un anillo de 5 o 6 miembros, opcionalmente sustituido en forma simple, de la serie Q-1, Q-2, Q-3, Q-4, Q-5, Q-6, Q-7, Q-8, Q-9, Q-10, Q-12, Q-13, Q-14, Q-15, Q-16, Q-17, Q-24, Q-25, Q-26, Q-27, Q-28, Q-29, Q-30, Q-34, Q-35, Q-41, Q-42, Q-43, Q-44, Q-45, Q-46, Q-47, Q-48, Q-49, Q-50, Q-51, Q-52, Q-55, Q-59, Q-61, Q-66, Q-67, Q-68, Q-69, Q-70, Q-71, Q-72, Q-73, Q-74 o Q-75, donde como sustituyentes se consideran:
30 ciano, flúor, cloro, metilo, etilo, n-propilo, i-propilo, n-butilo, i-butilo, terc-butilo, triflúorometilo, metoxi o trifluormetoxi,

donde

V representa un anillo opcionalmente sustituido en forma simple o doble, idéntico o distinto,

- 5 por ciano, flúor, cloro, bromo, metilo, etilo, n-propilo, i-propilo, n-butilo, i-butilo, terc-butilo, trifluorometilo, metoxi o trifluormetoxi, seleccionado de V-1, V-2, V-3, V-4, V-5, V-6, V-7, V-9, V-10, V-16, V-17, V-18, V-19, V-20, V-21, V-24, V-25, V-27, V-28, V-29, V-30, V-35, V-36, V-39, V-42, V-43, V-44, V-45, V-46, V-47, V-48, V-49, V-50, V-51, V-52, V-53, V-60, V-82, V-83, V-84, V-85, V-86, V-87, V-88, V-89, V-90, V-91, V-92, V-93, V-94, V-95, V-96, V-97, V-98, V-99, V-100 o V-101,
- 10 R^3 representa hidrógeno, ciano, halógeno, (C_1-C_4) alquilo, (C_1-C_4) haloalquilo, (C_1-C_4) haloalcoxi, (C_1-C_4) alquiltio, (C_1-C_4) alquilsulfinilo, (C_1-C_4) alquilsulfonilo, (C_1-C_4) haloalquiltio, (C_1-C_4) haloalquilsulfinilo, (C_1-C_4) haloalquilsulfonilo o $NHCO-(C_1-C_4)$ alquilo ((C_1-C_4) alquilcarbonilamino),
- X representa un sistema de anillos condensados heteroaromático, bi- o tricíclico, de 9 o 12 miembros, de la serie H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, H16, H17, H18, H19 o H20,
- R^4 representa hidrógeno, flúor, cloro, bromo o ciano,
- 15 R^5 representa flúor, cloro, flúorometilo, difluorometilo, trifluorometilo, flúoroetilo, difluoroetilo, trifluoroetilo, tetrafluoroetilo, pentafluoroetilo, trifluormetoxi, difluoro clorometoxi, dicloro flúormetoxi, trifluorometiltio, trifluorometilsulfonilo o trifluorometilsulfinilo,
- R^6 representa hidrógeno,
- 20 R^7 representa metilo, etilo, n-propilo, i-propilo, n-butilo, i-butilo, terc-butilo, metoximetilo oder metoxietilo,
- n representa 0, 1 o 2.
5. Compuestos de la fórmula (I) de acuerdo a la reivindicación 1, en la que
- A^1 representa nitrógeno,
- 25 R^1 representa etilo,
- R^2-V representa un anillo opcionalmente sustituido en forma simple cloro o trifluorometilo de la serie Q-12, Q-27, Q-28, Q-42, Q-45, Q-50, Q-51, Q-52, Q-59 o Q-61,
- donde
- V representa un anillo opcionalmente sustituido en forma simple o doble, idéntico o distinto, por flúor, cloro o bromo de la serie V-2, V-82, V-83 o V-95,
- 30

R³ representa hidrógeno,

X representa un sistema heteroaromático de anillos de la serie H1, H2, H15 o H20,

R⁵ representa trifluorometilo,

R⁶ representa hidrógeno,

5 R⁷ representa metilo,

n representa 2.

6. Formulación agroquímica que contiene compuestos de la fórmula (I) de acuerdo a la reivindicación 1, así como sustancias diluyentes y/o surfactantes.

10 7. Formulación agroquímica de acuerdo a la reivindicación 6 conteniendo adicionalmente un principio activo agroquímico adicional.

8. Procedimiento para el control de plagas animales caracterizado porque se puede dejar actuar un compuesto de la fórmula (I) de acuerdo a la reivindicación 1 o una formulación agroquímica según una de las reivindicaciones 6 o 7 en plagas animales y/o su hábitat.

15 9. Uso de compuestos de la fórmula (I) de acuerdo a la reivindicación 1 o de formulaciones agroquímicas según una de las reivindicaciones 6 o 7 para el control de plagas animales.