

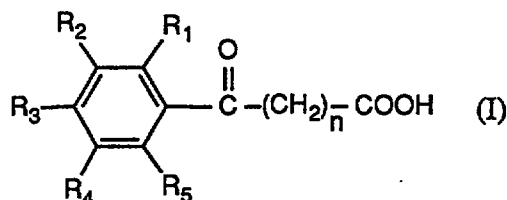
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Alkaline earth metal salts, transition metal salts and transition metal complexes of ketocarboxylic acids as corrosion inhibitors

Abstract

There are described novel alkaline earth metal salts, transition metal salts and transition metal complexes of compounds of the formula I



in which R_1 , R_2 , R_3 , R_4 and R_5 are, independently of one another, hydrogen, halogen, nitro, cyano, CF_3 , C_1 - C_{15} alkyl, C_5 - C_{12} cycloalkyl, C_2 - C_{15} alkenyl, C_1 - C_{12} haloalkyl, C_1 - C_{12} alkoxy, C_1 - C_{12} alkylthio, C_6 - C_{10} aryl which is unsubstituted or substituted by C_1 - C_4 alkyl; C_6 - C_{10} aryloxy which is unsubstituted or substituted by C_1 - C_4 alkyl; C_7 - C_{12} arylalkyl which is unsubstituted or substituted on the aryl radical by from 1 to 3

C_1 - C_4 alkyl groups; $-\text{CO}_2\text{R}_6$, $-\text{COR}_6$ or $-\text{N} \begin{array}{l} \text{R}_7 \\ \text{R}_8 \end{array}$, where at least one of the radicals R_1 to

R_5 is hydrogen, halogen or C_1 - C_{15} alkyl, in addition the radicals R_1 and R_2 , R_2 and R_3 , R_3 and R_4 or R_4 and R_5 form, together with the carbon atoms to which they are bound, a benzo or cyclohexenyl ring,

R_6 is C_1 - C_{20} alkyl, C_2 - C_{20} alkyl interrupted by oxygen, sulfur or $-\text{N}-\text{R}_9$;

C_7 - C_{12} arylalkyl which is unsubstituted or substituted on the aryl radical by from 1 to 3 C_1 - C_4 alkyl groups,

R_7 and R_8 are, independently of one another, hydrogen, C_1 - C_{24} alkyl or C_2 - C_{24} alkyl interrupted by oxygen, sulfur or $-\text{N}-\text{R}_9$,

R_9 is hydrogen or C_1 - C_8 alkyl, and

n is an integer in the range from 1 to 10 for use, as corrosion inhibitors in coating compositions for protecting metal surfaces.

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