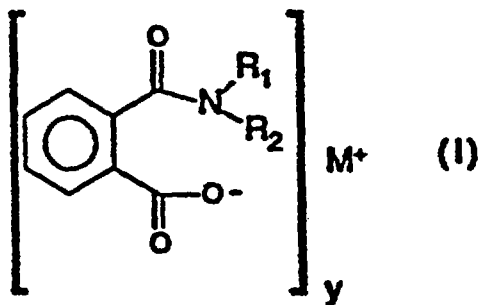


Abstract

CYCLIC AMIDOCARBOXY SURFACTANTS, SYNTHESIS AND USE THEREOF

Cyclic amidocarboxy surfactants having general formula (I)



wherein: R_1 and R_2 are independently selected from the group consisting essentially of H or C_1 - C_{40} linear or branched, substituted or unsubstituted alkyl, cycloalkyl, alkylene, alkaryl, aryl or R_3 -O- R_4 groups, with R_3 and R_4 being independently selected from the group consisting essentially of C_1 - C_{22} linear or branched, substituted or unsubstituted alkyl, cycloalkyl, alkylene, alkaryl and aryl groups; y is an integer of a value satisfying the valency of M ; and M is a cation and is preferably selected from the groups consisting of H, Na, K, NH_4 [including $(CH_3CH_2)_3NH$, $(CH_3CH_2)_2NH_2$, $(HOCH_2CH_2)_3NH$, $(HOCH_2CH_2)_2NH_2$ and similar ammonium derivatives], Ba, Ca, Mg, Al, Ti, Zr and mixtures thereof. These surfactants are useful in a variety of technical applications, such as fast-break emulsifiers in personal care products; destructible latex polymerization surfactants in manufacture and compounding of various coating or adhesive systems; domestic fabric softening agents; foodstuff emulsifiers; caustic-stable surfactants; bleach-stable surfactants; various domestic detergents and hard surface cleaners, emulsifiers for portland cement and concrete; floatation/beneficiation agents for mining/processing various mineral ores; additives for electroplating and/or surface finishing for metal goods; additives for plaster, gypsum and miscellaneous building materials; enhanced oil recovery additives; wetting and lubricating agents for industrial textile processing; compatibilizers/surfactants for polyurethane/isocyanurate foam systems, wood pulping additives; emulsifiers for various industrial surfactant systems, such as fatty alcohol/water emulsions; pour-point depressants for transporting petroleum crude oils, suspension agents for various particulate materials, such as anti-dandruff materials, i.e., sulfur, zinc pyrithione, etc. and other particulate materials, such as pulverized coal, and other similar uses.

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