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The general formula of quaternary ammonium compound is

A quaternary ammonium salt is an ionic compound that has the following general structural fury. N = positive integer R1, R2, R3, and R 4 may be hydrogen, alkyl groups, aryl groups, or any combination thereof. A. can be any announcing in the salt. For example: the word À à € in quaternary of the ammonium is an improper name salt, since a quaternary ammonium salt can not be prepared by a source-base reaction. See also Quaternaire Ammonium, Primary Ammonium Salt, Secondary Sat of Amenio, Tertiary Salt Tertiary Gamini Gunawardena from the Ochempal (University of Utah Valley) Chemical Class of Quaternary Ammonium Cations. The R groups may be the alkyl or aryl groups equal or different. Also, the R groups can be turned on. Quaternary Ammonium Cations, also known as quats, are positively loaded polyatemic ions of the NR + 4 structure, with an alkyl group or an aryl group. [1] Contrary to the Amenian IÀ È o (NH4 +) and the primary, secondary, or tertiary friendly cations, quaternary ammonium cations are permanently charged, independent of pH of your solution. Quaternary ammonium salts or quaternary amminium compounds (called quaternary amines in the language of the oil field) are salts of quaternary friendship cations. Polyquats are a variety of modified polymer shapes that provide quat molemps within a larger molene. View "Superior" of a view of BU4N +, as determined by X-ray crystallography. [2] "Side" view of BU4N +, as determined by X-ray crystallography. [2] compounds of ammonio quaternary synthesis are prepared by the alkylation of tertiary amines with a halocarbon. [3] In the older literature this is often designated by menshutkin, but modern chemical reaction generally refer to it simply as quaternization. [4] The reaction can be used to produce a compound with unequal alkyl chain lengths. For example, when making cationic surfactants one of the alkyl groups in which the amine is typically longer than the others. [5] A typical synthesis is for benzalkonic chloride from a long chain of alkylidimethylamine and benzyl chloride: CH3 (CH2) NN (CH3) 2 + CLCH2C6H5 A [CH3 (CH2) NN (CH3) 2CH2C6H5] Reactions + CLA Quaternary Ammonian Cations are unreactive direct electrical direction even strong, oxidizing and agricultural. They are also steady à € à € 61 h. [6] Because of its resilience, many unusual annions were isolated as the quaternary ammonium salts. Examples include pentafluoroxenate tetramethylamanium containing highly reactive pentafluoroxenate (Xefan € 5) of IÀyes. Permanganate can be solubilized in the sinus of organic solvents, when implanted as its NBU + 4. [7] [7] with exceptionally strong bases, quat degrade cations. Sommeletan € Hauser Rearranjo [9] and Stevens Rearrangement, [10], as well as desalhing in adverse conditions or in the presence of strong nucellos such as thiolats. Quaternary Ammonium Cations containing NP CA C CA H units can also be submitted to Hofmann's elimination and ENGE degradation. Benzalcónium chloride is a common type of quat salt used as a biocidal, a cationic surfactant, and as a phase transfer agent. [11] AdBacs are a mixture of alkylbenzylmethylamenium chlorides, wherein the alkyl group has several numbers of alkyl alkyl chain lengths. Quaternary ammonium salts are used as disinfectants, surfactants, tissue softeners, and as anti-static agents (for example, in Champàs). Inequinators of liquid tissues, the salts of are often used. In the anti-duty strip dryer, sulfate salts are often used. Older aluminum electrolytic capacitors and spermicidal jellies also contain quaternary ammonium salts. As antimicrobials composed of quaternary ammonium are also demonstrated to have antimicrobial activity. [12] certain quaternary ammonium compounds, especially those containing long alkyl chains, are used as and disinfectants. Examples are benzalconium chloride, bonzethornic chloride, methylbenzetenium chloride, cetalcortium chloride, cetylpyridium chloride, cetrimide, cetrimide, dofanum chloride, tetraethylammonium bromide, didecylmethylamenium chloride and domifene bromide. Also good against fungi, amoebas, and virus with invoice, [13] the quaternary friendly compounds are accredited to act breaking the cell membrane or the viral envelope. [14] Quaternary friendly compounds are lethal for a wide variety of organisms except endosporos, mycobacterium tuberculosis and the verrus not enveloped. Quaternary friendly compounds are the cationic detergents as well as disinfectants, and as such can be used to remove the organic material. They are very effective in combining with phenás. Quaternary ammonium compounds are disabled by anionic detergents (including common soap). In addition, they work best in soft waters. [Does it lacks?] Effective levels are 200 ppm. They are effective at temperatures from to 100 ° C (212 ° F). Quaternary friendly salts are usually used in industry of feed and nutrition as disinfection agents. Organic chemistry phase transfer catalysts, quaternary amminium salts are used as phase transfer catalysts (PTCs). Such catalysts to accelerate reactions between reagents dissolved in immiscible solvents. The highly reactive reagent dichlorocarbene is generated through PTC by reaction of chloroform and aqueous hedge hydroxide. Anion exchange resins, in the form of grants, contain quaternary ammonium ions attached to a polymer. Tissue softeners and hair conditioners in the DÀ © 1950, DiesteRylDimethylammet chloride (DHTDMAC), was introduced as a tissue softener. This compound was discontinued because the biodegrade cation is slowly too much. Contemporary tissue softeners are based on salts of quaternary ammonium cations, where the fatty acid is connected to the quaternary center through connections is ster; These are commonly referred to as beta-item or ster-quats and are susceptible to degradation, for example by hydróllysis [15]. Characteristically, the cations contain one or two long alkyl chains derived from fatty acids attached to an ethoxylated aslegium salt. [16] Other cationic compounds can be derived from imidazóllo, from guanidinio, substituted amine salts, or quaternary alkoxy of ammonium salts. [17] Catiemic surfactants used as diesteardimethylammonic chloride tissue softeners, an early generation softener with low biodegradability that has been extinct. Another diesterquat, a contemporary tissue softener. % diethyl ether dimethyl ammenium chloride used as a tissue softener. Another diesterquat used as a tissue softener. The anti-static qualities that make the ammenium salts quaternary as souvenirs also make them useful in capillary conditioners and shampames [18]. The idea was initiated by Henkel with patent 1984 [19]. Examples include chloride of cetrace and berrentry chloride. [20] Cycocel plant growth retardants (chlorin chloride) reduces the height of the plant through the inhibition of the production of giberellins, the primary hormone plant responsible for the elongation of the Caths. Therefore, its effects are mainly in stem fabrics, pecanolo and stem. Minor effects are seen in leaf expansion reductions, resulting in thicker leaves with darker green color. [21] Natural occurrence Betaan glycine, found in osmolites, stabilizes the osmotical pressure in cells [22]. Betan glycine is a quaternary friendly cation that occurs naturally. Your degradation product, trimethylamine, is responsible for the spoiled fish odor. The hill is a quat compound. The hill is a precursor for the acetylcholine. The hill is also a lecithin component, which is present in many plants and angry animals. [23] can be found in phospholipids. For example, phosphatidylcolins, one of the main components of biological membranes, are a member of the lecithin group of fat substances in animal and plant tissues. [24] Participates carnitine at beta-oxidation of fatty acids. fat. The health effects of Compounds amÀnio QuaternÀrio may exhibit a range of health effects, including sÀ È o mild skin irritation and the respiratÀria È [25] © ATA cÀjusticas severe skin burns and gastrointestinal wall (depending on the concentraSÀ È), gastrointestinal symptoms (e.g., nÀjusea and vÀ'mito), coma, seizures, hypotensive o È death. [26] It is believed that the chemist is the group responsÀvel reaSÀÀpes anafilÀticas that occur with the use of neuronalcular blocking drugs in general anesthesia during surgery. [27] A © quaternum-15 causes the most frequently found Ànica Ala contact dermatitis of the hands rgica © È the (16,5% of 959 cases) [28] Possible reproductive effects in lab animals Disinfectants based amÀnio QuaternÀrio (Virex and QuatricÀdio) were tentatively identified as the most provÀivel cause jumps in congÀnitos defects and fertility problems in caged lab rats. The ingredients in disinfectants quatas chloride include alkyl dimethyl benzyl chloride (ADBAC) and dimethyl amÀnio chloride (DDAC). [29] [30] A similar link has been tentatively identified in nurses. [31] The studies contradict previous toxicology data reviewed by AgÀncia À È ProteSÀ of the U.S. Environmental (U.S. EPA) and È COMMISSION EU. [32] The quantificaSÀ the QuantificaSÀ È È those compounds of amÀnio quaternÀrio environmental samples and biolÀgicas © À © lÀ problemÀtica using conventional chromatography techniques because the compounds sÀ È the highly solÀveis in Àgua . While analisÀj them lÀquida chromatography coupled to tandem mass spectrometry, it was found that follow a rule Aside from the È. Under the Conditions Padra È È ionizaSÀ the electrospray (ESI), compounds of amÀnio mono- and di-form molecular quaternÀrio AONs with fÀrmula MQ / ZQ instead of M Z + / Z [Necessary clarifying] the È formaSÀ the MQ / 2 © observed for di-quaternÀrio amÀnio compounds (as diquat) as a precursor AON and MQ / 1 as aon the product due to loss of a quaternÀrias rates during the ICD. In compounds of amÀnio di-quaternÀrio, this process can result tamba m © È formaSÀ in the AONs fragments with larger mass È comparaSÀ with its precursor. The interaSÀ the hidrofÀlica The Separation È È cromatogrÀfica the lÀquida was reported to demonstrate a È Separation of the amÀnio Successful quaternÀrio compounds for È quantificaSÀ in the ESI-MS / MS È the greater precision. [33] See tamba © m ReferÀncias of AmÀnio Iminium ~ IUPAC compendium of terminology Chemicals, 2À Ed. 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