
Heterocyclic Polymethine Dyes Synthesis Properties And Applications

evaluation of polymethine dyes as potential probes for ... - properties, in vivo tumor-affinity and fluorescence imaging potential of a series of heterocyclic polymethine dyes, which could then be conjugated to certain pdt agents. for our present study, we selected a series of symmetrical polymethine dyes containing a variety of bis-n-substituted **heterocyclic polymethine dyes synthesis properties and ...** - heterocyclic polymethine dyes synthesis properties and applications.pdf related documents: stoneview how to build an eco friendly little guesthouse cats in sweaters flaunting their tiny sweaters and trademark attitude scraps inc vol 1 15 block based designs for the modern quilter **synthesis and characterization of heterocyclic cyanine dyes** - shift in the cyanine dyes. numerous non-symmetric near-infrared cyanine dyes with two different heterocyclic end groups or one heterocyclic and one non-cyclic end group likewise absorb in the nir region. their absorptive maxima are shifted to shorter wavelengths compared to those of corresponding symmetric dyes. the synthesis of the **21 topics in heterocyclic chemistry - springer** - 21 topics in heterocyclic chemistry series editor: ... heterocyclic polymethine dyes synthesis, properties and applications volume editor: l. strekowski volume 14, 2008 ... topics in heterocyclic chemistry is included in springer's ebook package chemistry and materials science. if a library does not opt for the whole package the book **novel pyrazolo pyrazoly heterocyclic in the synthesis of ...** - novel pyrazolo pyrazoly heterocyclic in the synthesis of positive solvatochromic cyanine dyes. chemistry international 3(3) (2017) 332-341. introduction cyanine dyes are cationic molecules in which two terminal nitrogen heterocyclic subunits are linked by a polymethine bridge which have been extensively used in wide range of **organic dyes or closely-related compounds for producing ...** - are called 'vat dyes' (in german: küpenfarbstoff) cyanine dyes specific polymethine dyes having n-heterocyclic rings at both end of the polymethin chain (push-pull-system) acid dyes water-soluble anionic dyes basic dyes water-soluble cationic dyes substantive dyes (or direct dyes) are directly applied to the fibre from aqueous solution; especially **design and synthesis of novel antimicrobial acyclic and ...** - heterocyclic dyes and their precursors for dyeing and/or textile finishing based on 2-n-acylamino-4,5,6,7-tetrahydro-benzo[b] ... products could be useful as synthetic precursors for azo- and azomethine ligands or polymethine dyes which may be suitable for both electronic and optical applications. 2. results and discussion **novel near-infrared cyanine dyes for fluorescence imaging ...** - in the above mentioned polymethine dyes, the number of vinylene groups in the chromophore is $n = 0, 1, 2$, etc. as the value of n increases by one dye absorption maxima normally shift to longer wavelengths by ~ 100 nm, and is termed the vinylene shift. cyanine dyes are a large class of synthetic polymethine dyes with a wide variety **merocyanine dyes: synthesis, structure, properties and ...** - part of a heterocyclic system. like ionic cyanines, merocyanines contain two terminal heteroatoms and a polymethine chain (pc) in their chromophores.7 thus, merocyanines may be considered as a hybrid of two symmetrical dyes, cationic (2) and anionic (3) with pc of equal lengths. in contrast to ionic dyes 2 (chromophore charge +1) and 3 **a novel method for the preparation of monomethine cyanine dyes** - a novel method for the preparation of symmetric and asymmetric monomethine cyanine dyes was developed. qua-ternary salts of a heterocyclic 2- or 4-methyl compound and n-heterocyclic 2- or 4-sulfobetainic compounds were reacted by simple melting or by boiling in di•erent solvents in the absence of a basic compound. the preparation is fast **complex formation between thiacyanine dyes and aromatic ...** - and iii, with 3, 5 and 7 carbon atoms in the polymethine chain, respectively. the photophysics of these dyes in various solvents have been studied extensively.2,3 as model complexing agents we selected imidazole (im), benzimidazole (bz), and 2-methylbenzimidazole (mebz). we also included the photographically active heterocyclic bases, 2-

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