Journal of Fluorine Chemistry 132 (2011) 375–377

Contents lists available at ScienceDirect

Journal of Fluorine Chemistry

journal homepage: www.elsevier.com/locate/fluor

Graphical Abstracts/J. Fluorine Chem. 132 (2011) 375–377

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Reactions of fluorinated silanes with 2-nitrocinnamates

Artem A. Zemtsov, Vitalij V. Levin, Alexander D. Dilman, Marina I. Struchkova, Vladimir A. Tartakovsky

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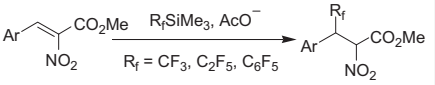

Nucleophilic addition of fluorinated carbanions to 2-nitrocinnamates using silicon reagents Me_3SiR_f (R_f = CF_3, C_2F_5, and C_6F_5) is described.

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Synthesis and surface properties of a series of surfactants based on *O*-alkyl and *O*-perfluoro-*N*,*N*′-diisopropylisoureas

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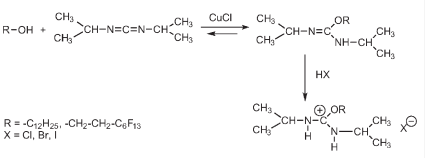
[b]*Institut Charles Gehrardt, Ingéniérie et Architectures Macromoléculaires, UMR CNRS 5253, Ecole Nationale Supérieure de Chimie de Montpellier, 8 rue de l'Ecole Normale, 34296 Montpellier Cedex 5, France*



O-Dodecyl- and *O*-tridecafluorooctyl-*N*,*N*´-diisopropylisourea hydrohalide were synthesized, characterized, and their surface properties assessed. Though the temperature has only a moderate effect, the nature of counter-ion has a strong impact on the surfacetension. As expected, the fluorinated cationic surfactants were found to exhibit better surface properties than their hydrogenated homologues.

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Use of 1,3-dipolar reactions for the preparation of SF_5-substituted five-membered ring heterocycles. Pyrroles and thiophenes

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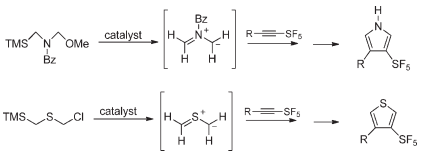

Synthesis of pentafluorosulfanyl pyrroles and thiophenes via 1,3-dipolar cycloadditions of azomethine ylide and thiocarbonyl ylide.

doi:10.1016/S0022-1139(11)00164-3

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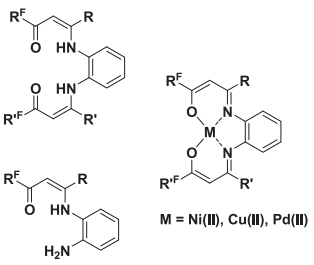
Trialkyl borate assisted amination of fluorinated 1,3-diketones for synthesis of *N*,*N*′-1,2-phenylen-*bis*(β-aminoenones) and their Ni(II), Cu(II) and Pd(II) complexes

Dmitrii L. Chizhov, Marina G. Pervova, Mariya A. Samorukova, Ekaterina F. Khmara, Vera I. Filyakova, Viktor I. Saloutin, Valery N. Charushin

I.Ya. Postovsky Institute of Organic Synthesis of RAS (Ural Division), S. Kovalevskoy/Akademicheskaya St. 22/20, 620990, GSP-147, Ekaterinburg, Russia



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Catalyst free 1,3-dipolar cycloaddition of 3-oxo-1,2-pyrazolidinium ylides to β-trifluoroacetyl vinyl ethyl ether: Synthesis of 6-trifluoroacetyl substituted bicyclic pyrazolidinones

Yong Xin, Jingwei Zhao, Jiwei Gu, Shizheng Zhu

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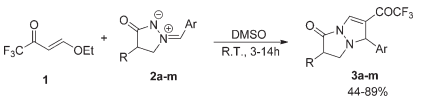

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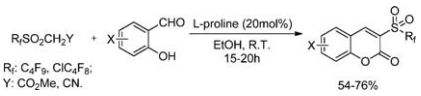
L-Proline catalyzed condensation–cyclization tandem process: Facile and effective synthesis of 3-polyfluoroalkanesulfonyl coumarin

Jianwei Han, Yong Xin, Jingwei Zhao, Shizheng Zhu

Key Laboratory of Organofluorine Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 345 Lingling Road, Shanghai 200032, PR China



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Synthesis and self-assembly of novel fluorous cationic amphiphiles with a 3,4-dihydro-2(1*H*)-pyridone spacer

Rufus Smits[a], Yelena Goncharenko[a], Iveta Vesere[a], Baiba Skrivele[a], Oksana Petrichenko[b], Brigita Vigante[a], Marina Petrova[a], Aiva Plotniece[a], Gunars Dubur[a]

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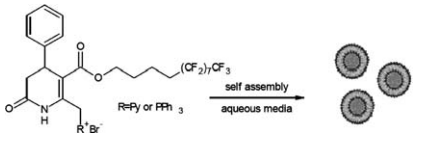

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Synthesis and biological activity of substituted 3-fluoro/ 3-trifluoromethyl 10*H*-phenothiazines, its ribofuranosides and sulfones

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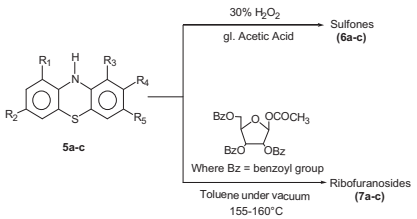
The present work reveals the synthesis of substituted 3-fluoro/3-trifluoromethyl-10*H*-phenothiazines, its ribofuranosides and sulfones and their characterization. The compounds were evaluated for their antioxidant and antimicrobial activities.



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Indium-mediated radical addition of perfluoroalkyl iodide in water

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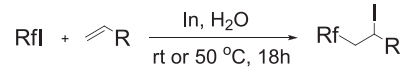
Research Center of Stem Cell Engineering (RCSC), National Institute of Advanced Industrial Science and Technology (AIST), AIST Tsukuba Central 5, 1-1-1 Higashi, Tsukuba, Ibaraki 305-8565, Japan



(Rf = nC$_4$F$_9$, nC$_8$F$_{17}$; R = (CH$_2$)$_8$OH, CH$_2$Ph)

Introduction of the perfluoroalkyl moieties into the carbon–carbon unsaturated compounds under the mild condition were successful by using indium in water.