

Graphical Abstracts/J. Fluorine Chem. 128 (2007) 971–974

J. Fluorine Chem., 128 (2007) 975

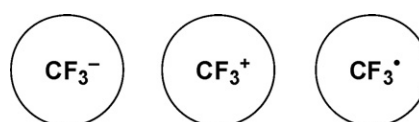
Strategies for nucleophilic, electrophilic, and radical trifluoromethylations

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Recent advances in the development of new strategies in nucleophilic, electrophilic, and radical trifluoromethylations are reviewed.

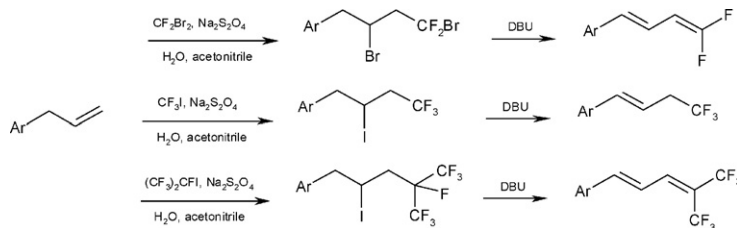


J. Fluorine Chem., 128 (2007) 997

Sodium dithionite initiated addition of CF_2Br_2 , CF_3I and $(\text{CF}_3)_2\text{CFI}$ to allylaromatics. Synthesis and the reactivity of 4-aryl-1,1-difluorodienes and 4-aryl-1,1-bis(trifluoromethyl)dienes

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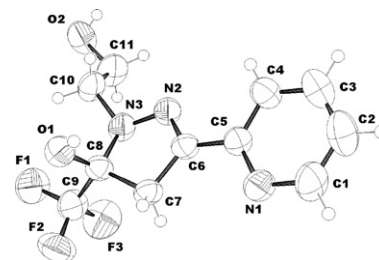
Reaction of 2-hydroxyethylhydrazine with a trifluoromethyl- β -diketone: Study and structural characterization of a new 5-hydroxy-5-trifluoromethyl-4,5-dihydropyrazole intermediate

Vanessa Montoya^a, Josefina Pons^a, Jordi García-Antón^a, Xavier Solans^b,
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Bellaterra, Barcelona, Spain

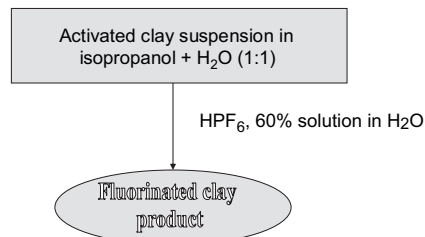
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The use of β -diketones with strong electron-withdrawing substituents in the reaction with 2-hydroxyethylhydrazine leads to the stable intermediates of pyrazole synthesis, 5-hydroxy-4,5-dihydropyrazoles.



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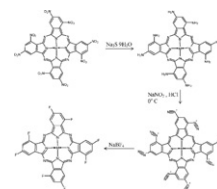
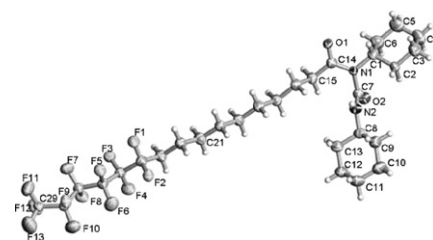
Controlled fluorination of clays

A. Majid^a, S. Argue^a, D. Kingston^a, S. Lang^b^a*Institute for Chemical Process and Environmental Technology, National Research Council of Canada, Ottawa, Ontario K1A 0R9, Canada*^b*Steele Institute for Molecular Sciences, National Research Council of Canada, Ottawa, Ontario K1A 0R9, Canada*HPF₆ is a mild fluorinating agent suitable for the fluorination of clays.*J. Fluorine Chem.*, 128 (2007) 1019

Synthesis, spectral, magnetic and thermal studies on symmetrically substituted metal(II)-1,3,8,10,15,17,22,24-octafluorophthalocyanines

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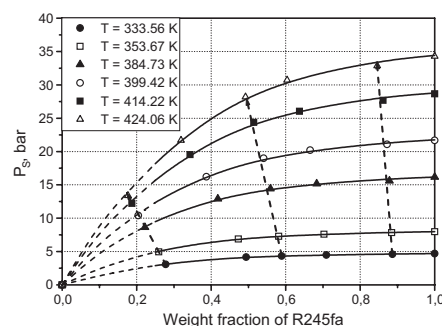
This publication discuss the synthesis and characterization of pure 1,3,8,10,15,17,22,24-octafluorophthalocyanines of Cu(II), Co(II), Ni(II) and Zn(II). The complexes are characterized by elemental analysis, electronic spectra, IR spectra, thermal studies and X-ray powder diffraction method to check the purity and integrity of the complexes. The magnetic measurements over the range of magnetic field strength 1.03–2.32 kG showed a variation of magnetic moments with field strength indicating the presence of intermolecular co-operative effect.

*J. Fluorine Chem.*, 128 (2007) 1026Reaction of R_F-palmitic acid-F₁₃ with dicyclohexylcarbodiimideGerald W. Buchanan^a, Majid F. Rastegar^a, Gary Enright^b^a*Ottawa-Carleton Chemistry Institute, Department of Chemistry, Carleton University, Ottawa, Canada K1S 5B6*^b*Steele Institute for Molecular Sciences, National Research Council, Ottawa, Canada K1A 0R6**J. Fluorine Chem.*, 128 (2007) 1029

An experimental investigation and modelling of the solubility, density and surface tension of 1,1,1,3,3-pentafluoropropane (R-245fa)/synthetic polyolester compressor oil solutions

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Concentration dependencies on the vapor pressure for the ROS R-245fa/Planetel ACD 100FY.



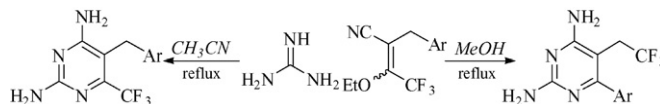
J. Fluorine Chem., 128 (2007) 1039

Selective synthesis of fluorinated benzyl- or phenylpyrimidines from the heterocyclisation of α -trifluoroacetylarlypropanenitriles

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^bLaboratoire de Parasitologie-Mycologie (EA 3520), Université Denis Diderot, Hôpital Saint-Louis, AP-HP, Faculté de Médecine, 15 rue de l'Ecole de Médecine, 75006 Paris, France

*J. Fluorine Chem.*, 128 (2007) 1046

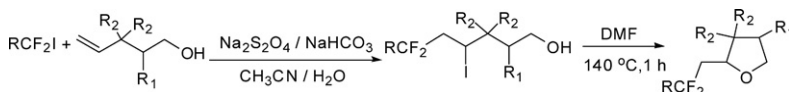
Fluoroalkylation of pent-4-en-1-ols initiated by sodium dithionite to synthesize fluorine-containing tetrahydrofuran derivatives

Xueyan Yang^a, Zhonghua Wang^a, Yaoping Zhu^a, Xiang Fang^a, Xianjin Yang^a, Fanhong Wu^{a,b}, Yongjia Shen^a

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Fluoroalkyl tetrahydrofuran derivatives were obtained by reaction of pent-4-en-1-ols with RCF_2I initiated by $\text{Na}_2\text{S}_2\text{O}_4$ followed by heating in DMF or acetonitrile.

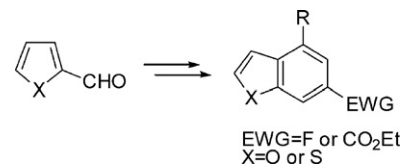
*J. Fluorine Chem.*, 128 (2007) 1052

Site-specific preparation of 4-substituted-6-fluoro(carboalkoxyl)benzo[*b*]furans and benzo[*b*]thiophenes via base-catalyzed cyclization of enyne derivatives

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Department of Chemistry, University of Iowa, Iowa City, IA 52242, USA

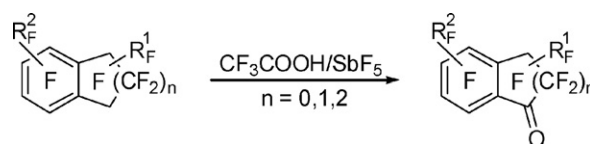
We have demonstrated that 4-substituted-6-fluoro(carboalkoxyl)benzo[*b*]furans and benzo[*b*]thiophenes can be prepared site-specifically via base-catalyzed cyclization from the corresponding substituted enynes. Our work continues to explore new applications of this base-catalyzed cyclization in organic chemistry.

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Transformation of perfluorinated benzocycloalkenes and alkylbenzenes to their carbonyl derivatives under the action of $\text{CF}_3\text{COOH}/\text{SbF}_5$

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N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, Novosibirsk 630090, Russia



Reaction of perfluoro-1-ethylindan with $\text{SiO}_2/\text{SbF}_5$ and skeletal transformations of perfluoro-3-ethylindan-1-one under the action of SbF_5 and $\text{SiO}_2/\text{SbF}_5$

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