



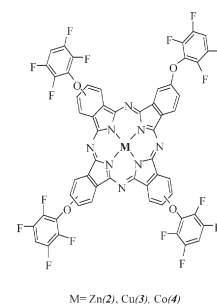
Graphical Abstracts/J. Fluorine Chem. 129 (2008) 659–661

J. Fluorine Chem., 129 (2008) 662

Functional fluoro substituted tetrakis-metallophthalocyanines: Synthesis, spectroscopy, electrochemistry and spectroelectrochemistry

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Electron-withdrawing fluoro-functional ligand and its tetrakis 2,9,16,23-tetrakis-4-(2,3,5,6-tetrafluoro)-phenoxy-phthalocyaninatometal (II) complexes, have been prepared and characterized by elemental analysis, FT-IR, ¹H NMR, UV/vis MS (Maldi-TOF), electrochemistry, and spectroelectrochemistry.

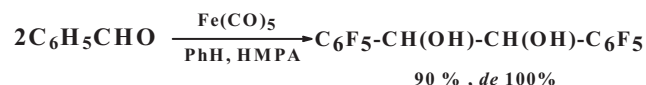
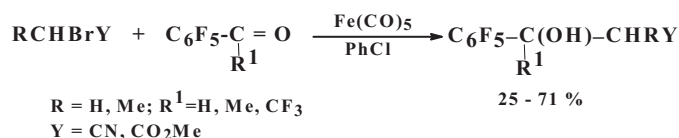


J. Fluorine Chem., 129 (2008) 669

Pentafluorophenyl carbonyl compounds in the Reformatsky-type reactions promoted with Fe(CO)₅-based metal complex systems

A.B. Terent'ev, T.T. Vasil'eva, O.V. Chahovskaya, N.E. Mysova, H.H. Hambarzumyan, K.A. Kochetkov

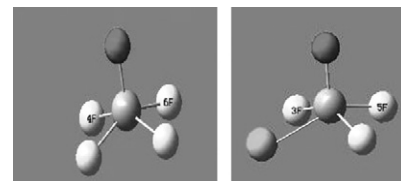
A.N. Nesmeyanov Institute of Organoelement Compounds, The Russian Academy of Sciences, Vavilov Str. 28, 119991 Moscow, Russian Federation



J. Fluorine Chem., 129 (2008) 674

Synthesis and characterization of three new fluorovanadate complexes: N(C₂H₅)₄⁺[VOF₄]₄⁻, N(CH₃)₄⁺[VOF₃Cl]₄⁻, N(C₄H₉)₄⁺[VOF₃Br]₄⁻ and theoretical calculations of VOF₄⁻, VOF₃Cl⁻ and VOF₃Br⁻ ionsSomayyeh Rostamzadehmansor^a, Gholamreza Ebrahimzadehrajai^a, Shahriare Ghammamy^b, Kheyrollah Mehrani^a, Lotfali Saghatforoush^c^aDepartments of Chemistry, Faculty of Science, Islamic Azad University, Ardabil Branch, Ardabil, Iran^bDepartment of Chemistry, Faculty of Science, Imam Khomeini International University, Ghazvin, Iran^cDepartment of Chemistry, Payam Noor University (PNU), Khoy, Iran

The reaction of VOF₃ with salts (C₂H₅)₄NF, (CH₃)₄NCl and (C₄H₉)₄NBr, in anhydrous CH₃CN produced complexes [VOF₃X]₄⁻ (X = F⁻, Cl⁻, Br⁻). The optimized geometries, frequencies of the stationary point and Harmonic vibrational frequencies and infrared intensities of a number of oxovanadate complexes are calculated at the B3LYP/6-311G level of theory.



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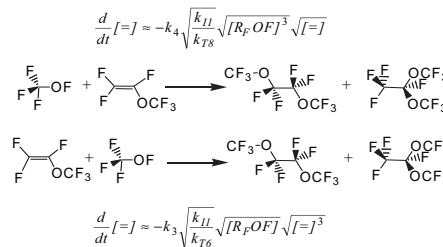
The use of perfluoroalkyl hypofluorites for an efficient synthesis of perfluorinated ethers characterized by low Ostwald coefficient

Walter Navarrini^a, Francesco Venturini^a, Maurizio Sansotera^a, Maurizio Ursini^a, Pierangelo Metrangola^a, Giuseppe Resnati^a, Marco Galimberti^b, Emma Barchiesi^b, Patrizia Dardani^b

^aDipartimento di Chimica, Materiali e Ingegneria Chimica, Politecnico di Milano, 7, via Mancinelli, I-20131 Milano, Italy

^bSolvay-Solexis, R&D Centre, 20, viale Lombardia, I-20021 Bollate (MI), Italy

In the graphical abstract are illustrate two different reaction methodologies for the preparation of low Oswald coefficient perfluoroethers using trifluoromethyl hypofluorite.



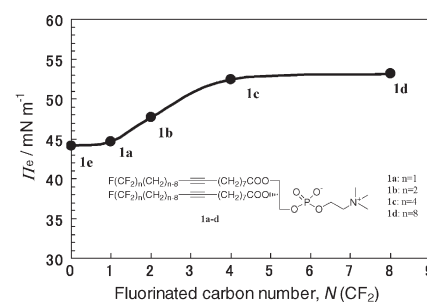
J. Fluorine Chem., 129 (2008) 686

Synthesis and monolayer properties of double-chained phosphatidylcholines containing perfluoroalkyl groups of different length

Katsuki Takai, Toshiyuki Takagi, Teruhiko Baba, Toshiyuki Kanamori

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

Effect of the fluorine content on the monolayer stability for the partially fluorinated phosphatidylcholine analogs **1a-d** at the air-water interface and 25 °C.



J. Fluorine Chem., 129 (2008) 691

Bioavailability of fluoride administered as sodium fluoride or monofluorophosphate to humans

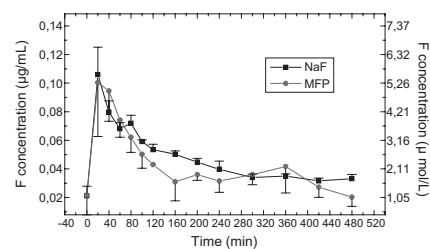
Marília A.R. Buzalaf^a, Aline L. Leite^a, Nara T.A. Carvalho^a, Maria H.C. Rodrigues^a, Esther R. Takamori^a, Daniela B. Niconiolo^b, Flávia M. Levy^a, Vanessa E.S. Cardoso^c

^aBauru Dental School, University of São Paulo, Al. Octávio Pinheiro Brisolla 9-75, CEP 17012-901 Bauru, SP, Brazil

^bUniversity of Sagrado Coração, R. Irmã Arminda 10-50, CEP 17047-050 Bauru, SP, Brazil

^cInstitute of Chemistry, University of São Paulo, Av. Prof. Lineu Prestes 748, CEP 05508-900 São Paulo, SP, Brazil

Plasma fluoride concentrations as a function of the time of blood collection after administration of 2 mg F as NaF or MFP (n = 4). Bars indicate S.D.



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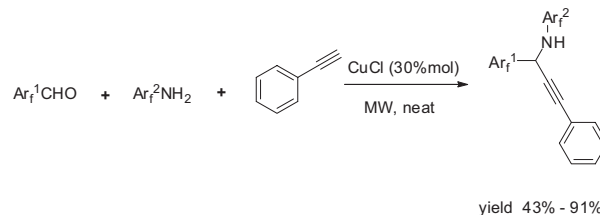
One-pot preparation of fluorinated propargylamines under microwave irradiation and solvent-free conditions

Wei-Qiong Du^a, Jian-Min Zhang^a, Ran Wu^a, Qin Liang^a, Shi-Zheng Zhu^b

^aDepartment of Chemistry, School of Science, Shanghai University, Shanghai, China

^bKey Laboratory of Organofluorine Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Science, 354 Fenglin Lu, Shanghai 200032, China

A facile one-pot method has been developed for this A³ coupling reaction to gain series new fluorinated propargylamines under microwave irradiation and solvent-free condition.

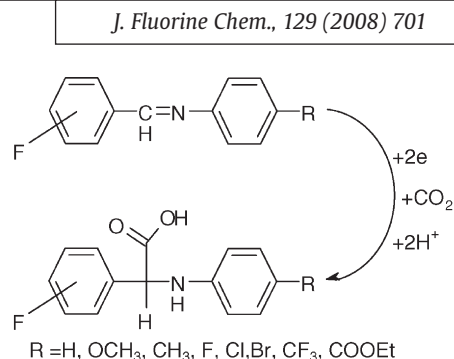


Electrochemical carboxylation of fluorocontaining imines with preparation of fluorinated *N*-phenylphenylglycines

V.G. Koshechko, V.E. Titov, V.N. Bondarenko, V.D. Pokhodenko

L.V. Pisarzhevsky Institute of Physical Chemistry, National Academy of Sciences of Ukraine, Pr. Nauki 31, 03028 Kyiv, Ukraine

A possibility of obtaining fluorine-containing *N*-phenylphenylglycine derivatives at yields of up to 85% via the electrochemical carboxylation of corresponding benzalanimines was shown. The influence of imine's electron structure, the nature of supporting electrolyte and cathode material on such processes was estimated.

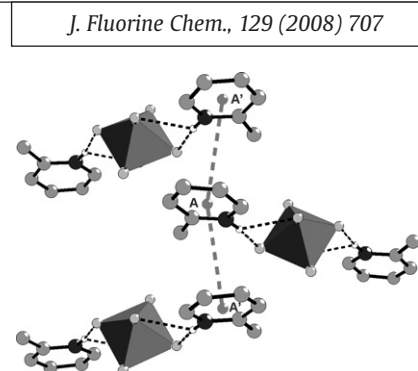


The variations in hydrogen bonding in hexafluorosilicate salts of protonated methyl substituted pyridines and tetramethylethylenediamine

Andrej Pevec, Alojz Demšar

Faculty of Chemistry and Chemical Technology, University of Ljubljana, Aškerčeva 5, SI-1000 Ljubljana, Slovenia

The new hexafluorosilicate salts with protonated nitrogen bases as cation were prepared. The extensive system of hydrogen bonding results in the formation of discrete cation-anion units, chain structure and polymeric layers in the solid state.



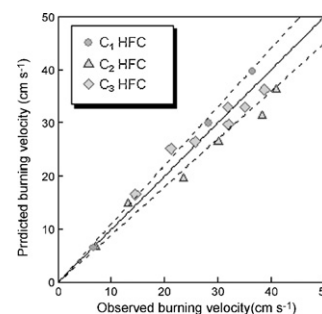
Burning velocity measurements of fluoropropanes by the spherical-vessel method

Kenji Takizawa, Akifumi Takahashi, Kazuaki Tokuhashi, Shigeo Kondo, Akira Sekiya

National Institute of Advanced Industrial Science and Technology (AIST), Central 5, 1-1-1 Higashi, Tsukuba, Ibaraki 305-8565, Japan

The burning velocities of 1-fluoropropane (HFC-281fa), 2-fluoropropane (HFC-281ea), 1,3-difluoropropane (HFC-272fa), 2,2-difluoropropane (HFC-272ca), 1,2,3-trifluoropropane (HFC-263ea), and 1,1,1-trifluoropropane (HFC-263fb) were obtained by the spherical-vessel method.

J. Fluorine Chem., 129 (2008) 713



Reaction of graphite fluoride with NaOH–KOH eutectic

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^a*Institute of Materials Science, NCSR "Demokritos", Ag. Paraskevi Attikis, Athens 15310, Greece*

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^e*Department of Materials Science and Engineering, Cornell University, Ithaca, NY 14853, USA*

Reaction of graphite fluoride with a eutectic NaOH–KOH mixture at 250 °C results in water-soluble, graphitized carbon particles with different morphologies. The particles are dispersible in water and fluoresce upon UV excitation.

