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QSPR analysis of fluorophilicity for organic compounds

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We constructed a QSPR model from 116 organic compounds for the prediction of fluorophilicity, 1268 theoretical descriptors were explored by means of linear regressions leading to an optimal seven-parameter equation with a correlation coefficient R = 0.9807.



Synthesis and characterization of tri-block fluorinated-n-alkanes

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Triblock semifluorinated *n*-alkanes are obtained, for instance, by double addition of perfluoroalkyl iodides $F(CF_2)_n I$ to a linear diene to give the corresponding diiodo adducts and subsequent deiodination under reductive conditions



J. Fluorine Chem., 128 (2007) 493



Enantioselective organocatalytic route to trifluoromethyl-\beta-amino acids using chiral bases

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Enantioselective (1,3) proton transfer of ETFAA amino derivatives leads to ee's as high as 71%.



Synthesis of 4-fluoroalkyl-substituted pyridazines from fluorinated diazodiketones

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The synthesis of 4-fluoroalkyl-containing 3,4,6-trisubstituted pyridazines from fluorinated diazodiketones using Wittig, Staudinger, *diaza*-Wittig or Staudinger, Wittig, *diaza*-Wittig reaction sequences is described.





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J. Fluorine Chem., 128 (2007) 515

Efficient microwave enhanced solvent-free synthesis of potent antifungal agents: Fluorinated benzothiazepine fused β -lactam derivatives

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A rapid and efficient method is described for the synthesis of 2-chloro-2a-(substituted phenyl)-1-oxo-2,2a,3,4-tetrahydro-1*H*-azeto[2,1-d][1,5]benzothiazepine-carboxylic acids (**Va–m**) on the surface of potassium carbonate (K_2CO_3).



Graphical Abstracts





$Na_2S_2O_4$ initiated free radical additions of polyfluoroalkyl halides to 4-pentenamides

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We described the $Na_2S_2O_4$ initiated free radical additions of fluoroalkyl halides to 4-pentenamides. For polyfluoroalkyl iodides and ethyl iododifluoroacetate, the reaction afforded fluorine-containing γ -butyrolactones as the main products, while reaction of ethyl bromodifluoroacetate only resulted in the addition-debromination product.



J. Fluorine Chem., 128 (2007) 540

a2S2O4, Base

CONHR¹ + XCF₂









