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$[Ar(Ar')I][N(CF_3)_2]$, effect of fluorine substituents on aryl groups of iodonium cations and of coordinating bases on the fluoride transfer from the anion to the cation

Markus E. Hirschberg^a, André Wenda^a, Hermann-Josef Frohn^b, Nikolai V. Ignat'ev^c ^aInorganic Chemistry, Bergische Universität Wuppertal, Gaußstr. 20, D-42097 Wuppertal, Germany ^bInorganic Chemistry, Universität Duisburg-Essen, Lotharstr. 1, D-47048 Duisburg, Germany $[Ar(Ar')I][N(CF_3)_2]_{CH,CN}$ $\downarrow - CH_3CN$ $Ar(Ar')IF + \langle CF_2=N-CF_3 \rangle$ $\downarrow + [N(CF_3)_2]$

 $V = C(F) - N(CF_3)_2 + F$

 $({\rm Ar}/{\rm Ar}'={\rm C}_6{\rm H}_5/4\text{-}{\rm F}{\rm C}_6{\rm H}_4,\,3\text{-}{\rm F}{\rm C}_6{\rm H}_4/4\text{-}{\rm F}{\rm C}_6{\rm H}_4,\,{\rm C}_6{\rm F}_5/{\rm C}_6{\rm F}_5)$



Perfluoroorganyltrifluoroborate salts do not react with XeF_2 in halocarbons or CH_3CN , but in aHF, HF activates XeF_2 and enables electrophilic attack on the nucleophilic *ipso*-carbon of the C–BF₃ moiety. This "xenodeboration" approach is a new method for the synthesis of Xe–C onium salts.

Graphical Abstracts

Fluoro-containing poly(amide-imide)s with sterically hindered pendants: Synthesis and characterization

Hossein Behniafar, Farzin Zardoozi, Ali Rastkar

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These fluoro-containing poly(amide-imide)s displayed excellent organo-solubility, low crystallinity, reasonable thermal stability and glass transition temperatures, making them suitable for thermoforming processing.



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R¹ = Me, OEt, Ph; R² = H, Alk



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A variety of substituted β-(trifluoromethyl)pyrroles were easily synthesized in good yields by a one-pot, three-component Grob cyclization of 1,1,1-trifluoro-3-nitrobut-2-ene with 1,3-dicarbonylic compounds (ethyl acetoacetate, acetylacetone, and benzoylacetone) and ammonia or primary aliphatic amines.

