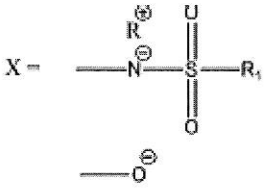


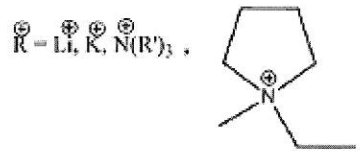
or aryl group

n = 2-4

R = alkyl or aryl group



R1 = CF_3, CH_3, F



R' = aryl group

In an aspect, there is provided a PEDOT:poly styrenesulfonyl(trifluoromethylsulfonyl)imide composition in which the poly styrenesulfonyl(trifluoromethylsulfonyl)imide comprises potassium styrenesulfonyl(trifluoromethylsulfonyl)imide monomers.

In another aspect, there is provided a conductive transparent film obtained from a composition as defined above.

In another aspect, there is provided the use of a composition as defined above for dispersing nanofilters.

In another aspect, there is provided a conductive transparent film obtained from a composition as defined above and carbon nanotubes.

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Detailed description:

The PAns used in the compositions of the invention are obtained by radical polymerization or by controlled radical polymerization of monomers I in the optional presence of ionic or nonionic comonomers.

The monomers optionally copolymerized with I are chosen from vinyl, vinylidene, diene, olefinic, allylic and (meth)acrylic monomers. These monomers are chosen more particularly from vinylaromatic monomers such as styrene or substituted styrenes, especially α-methylstyrene, acrylic

Claims

1 A PEDOT:poly styrenesulfonyl(trifluoromethylsulfonyl)imide composition in which the poly styrenesulfonyl(trifluoromethylsulfonyl)imide comprises potassium styrenesulfonyl(trifluoromethylsulfonyl)imide monomers.

2 The composition as claimed in claim 1, in which the polystyrenesulfonyl(trifluoromethylsulfonyl)imide is polymerized by controlled radical polymerization with nitroxides.

3 The composition as claimed in claim 2, in which the nitroxide is N-tert-butyl-1-diethylphosphono-2,2-dimethylpropyl nitroxide.

4 The composition as claimed in claim 1, in which the