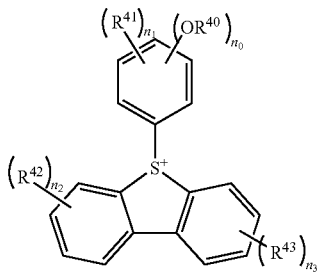
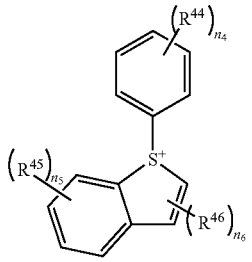
[Chemical Formula 42]

(I-5)



(I-6)



In the formulas, R^{40} represents a hydrogen atom or an alkyl group; R^{41} represents an alkyl group, an acetyl group, a carboxy group or a hydroxyalkyl group; each of R^{42} to R^{46} independently represents an alkyl group, an acetyl group, an alkoxy group, a carboxy group, or a hydroxyalkyl group; each of n_0 to n_5 independently represents an integer of 0 to 3, provided that n_0+n_1 is 5 or less; and n_6 represents an integer of 0 to 2.

[0340] In general formulas (I-5) and (1-6), with respect to R^{40} to R^{46}, the alkyl group is preferably an alkyl group of 1 to 5 carbon atoms, more preferably a linear or branched alkyl group, and most preferably a methyl group, all ethyl group, a propyl group, an isopropyl group, an n-butyl group or a tert butyl group.

[0341] The alkoxy group is preferably an alkoxy group of 1 to 5 carbon atoms, more preferably a linear or branched alkoxy group, and most preferably a methoxy group or ethoxy group.

[0342] The hydroxyalkyl group is preferably the aforementioned alkyl group in which one or more hydrogen atoms have been substituted with hydroxy groups, and examples thereof include a hydroxymethyl group, a hydroxyethyl group and a hydroxypropyl group.

[0343] If there axe two or more of the OR^{40} group, as indicated by the value of n_0, then the two or more of the OR^{40} group may be the same or different from each other.

[0344] If there are two or more of an individual R^{41} to R^{46} group, as indicated by the corresponding value of n_1 to n_6, then the two or more of the individual R^{41} to R^{46} group may be the same or different from each other.

[0345] n_0 is preferably 0 or 1.

[0346] n_1 is preferably 0 to 2.

[0347] It is preferable that n_2 and n_3 each independently represent 0 or 1, and more preferably 0.

[0348] n_4 is preferably 0 to 2, and more preferably 0 or 1.

[0349] n_5 is preferably 0 or 1, and more preferably 0.

[0350] n_6 is preferably 0 or 1.

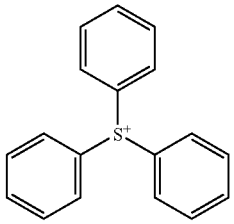
[0351] Among the aforementioned examples, as the cation moiety for the component (B1), a cation represented by general formula (I-1) or (I-5) is preferable, and a cation represented by any one of formulas (I-1-1) to (I-1-10) and (I-5-1) to (I-5-4) shown below is particularly desirable. Among these, a cation having a triphenyl skeleton, such as a cation represented by any one of formulas (I-1-1) to (1-1-8) shown below is particularly desirable.

[0352] In formulas (I-1-9) and (I-1-10), each of R^8 and R^9 independently represents a phenyl group or naphthyl group which may have a substituent, an alkyl group of 1 to 5 carbon atoms, an alkoxy group or a hydroxy group.

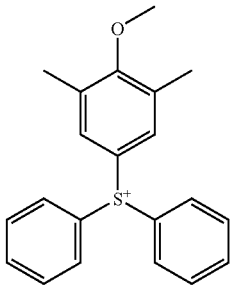
[0353] u is an integer of 1 to 3, and most preferably 1 or 2.

[Chemical Formula 43]

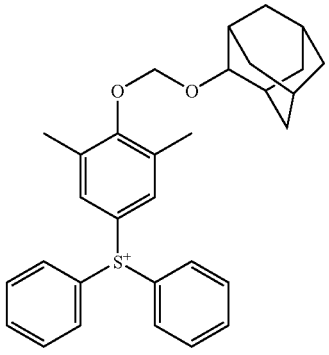
(I-1-1)



(I-1-2)



(I-1-3)



(I-1-4)