The PAG as component (B) may further contain a compound having the following formula (B-3).

$$\begin{array}{c}
O \\
A^3
\end{array}$$

$$A^4 \\
SO_3^- M_B^+$$
(B-3)

Herein A³ and A⁴ are each independently hydrogen or trifluoromethyl, excluding that both A³ and A⁴ are hydrogen at the same time. R²⁵ is a C₁-C₃₅ straight, branched or cyclic monovalent hydrocarbon group which may contain oxygen,
 a nitrogen-containing heterocyclic group, or a group of the formula (i). M₃⁺ is an onium cation.

Examples of the monovalent hydrocarbon group and nitrogen-containing heterocyclic group represented by  $R^{25}$  are as exemplified above for  $R^{21}.$  Examples of the onium cation  $M_{\cal B}^{+}$  are as exemplified above for  $M_{\cal A}^{+}.$ 

Exemplary structures of the anion moiety in the PAG having formula (B-3) are shown below, but not limited thereto.