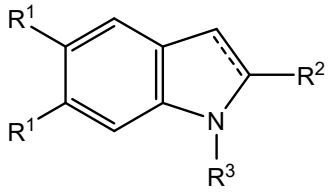
Claims

1. A hair cosmetic, comprising:

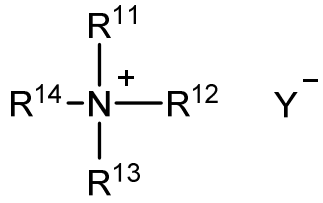
(A) a compound represented by the following formula (1) or a salt thereof:



(1)

wherein a broken line represents the presence or absence of a π bond; R^1 represents a hydroxy group or an acetoxy group; R^2 represents a hydrogen atom or -COOR, wherein R is a hydrogen atom, a methyl group, or an ethyl group; and R^3 represents a hydrogen atom, an acetyl group, a methyl group, or an ethyl group;

(B) a cationic surfactant, wherein the cationic surfactant is a mono- or di-long chain alkyl quaternary ammonium salt represented by the following formula:



,

wherein R^{11} is a linear or branched alkyl group having from 8 to 18 carbon atoms or a group represented by $R^{15}CONH(CH_2)_m$-, R^{15}-O-$(CH_2)_m$-, or $R^{15}COO(CH_2)_m$-, wherein R^{15} represents a linear or branched alkyl group having from 7 to 21 carbon atoms, and m represents a number of from 1 to 4; R^{12} represents a linear or branched alkyl group having from 1 to 22 carbon atoms or a group represented by the foregoing $R^{15}CONH(CH_2)_m$-, R^{15}-O-$(CH_2)_m$-, or $R^{15}COO(CH_2)_m$-; R^{13} and R^{14} each independently represent an alkyl group from 1 to 4 carbon atoms; and Y^- represents a chloride ion, a bromide ion, or a methosulfate ion; and

(C) a polyoxyethylene addition nonionic surfactant having an oxyethylene addition molar number of 100 or less,

wherein:

a mass ratio of the component (B) to the component (A), [(B)/(A)], is at least 1.0, and a mass ratio of the component (C) to the component (A), [(C)/(A)], is at least 2.5;

when in components constituting the component (C), a component having an oxyethylene addition molar number of 5 or more is designated as (C_5), a component having an oxyethylene addition molar number of 10 or more is designated as (C_{10}), a component having an oxyethylene addition molar number of 15 or more is designated as (C_{15}), and a component having an oxyethylene addition molar number of 30 or more is designated as (C_{30}), a mass ratio of each of the components relative to the component (A) satisfies at least one of the following expressions (I) to (IV):

$(C_5)/(A) \geq 4.5$ (I),

$(C_{10})/(A) \geq 3.5$ (II),

$(C_{15})/(A) \geq 1.2$ (III),

$(C_{30})/(A) \geq 0.2$ (IV); and

a pH at 25°C of the hair cosmetic is from 8.0 to 12.0,

wherein, when the hair cosmetic further comprises a higher alcohol and a content of the higher alcohol in the hair cosmetic is less than 3% by mass, a component having an oxyethylene addition molar number of less than 5 in the components constituting the component (C) is designated as $(C_{<5})$, and a content of the component $(C_{<5})$ in the components constituting the component (C) is 5% by mass or less, and

wherein the hair cosmetic satisfies at least one of the following (VII) to (VIII);

(VII) a content of the component (C_{15}) in the components constituting the component (C) is at least 30% by mass, and

(VIII) a content of the component (C_{30}) in the components constituting the component (C) is more than 0% by mass.

2. The hair cosmetic according to claim 1, wherein the mass ratio (B)/(A) of the component (B) to the component (A) is from 1.5 to 20.

3. The hair cosmetic according to claim 1 or 2, wherein the mass ratio (C)/(A) of the component (C) to the component (A) is from 2.5 to 25.

4. The hair cosmetic according to any one of claims 1 to 3, wherein the component (C) is a polyoxyethylene alkyl ether.

5. The hair cosmetic according to claim 4, wherein the polyoxyethylene alkyl ether comprises at least one selected from the group consisting of polyoxyethylene lauryl ether, polyoxyethylene myristyl ether, polyoxyethylene cetyl ether, polyoxyethylene stearyl ether, and polyoxyethylene behenyl ether.

6. The hair cosmetic according to any one of claims 1 to 5, wherein R^{11} is the linear or branched alkyl group having from 8 to 18 carbon atoms.

7. The hair cosmetic according to any one of claims 1 to 6, which further satisfies at least one of the following (V)and (VI):

(V) a content of the component (C_5) in the components constituting the component (C) is at least 98% by mass, and

(VI) a content of the component (C_{10}) in the components constituting the component (C) is at least 75% by mass.

8. The hair cosmetic according to any one of claims 1 to 7, wherein a content of the component (A) in the hair cosmetic is from 0.05% by mass to 5% by mass.

9. The hair cosmetic according to any one of claims 1 to 8, wherein the components constituting the component (C) further comprise a component having an oxyethylene addition molar number of 70 or more designated as (C_{70}), and a mass ratio $(C_{70})/(A)$ of the component (C_{70}) to the component (A) is 5.0 or less.

10. The hair cosmetic according to any one of claims 1 to 9, wherein the pH at 25°C of the hair cosmetic is from 9.0 to 11.0.

11. The hair cosmetic according to any one of claims 1 to 10, further comprising the higher alcohol.

12. The hair cosmetic according to claim 11, wherein the higher alcohol is at least one selected form the group consisting of a lauryl alcohol, myristyl alcohol, cetyl alcohol, stearyl alcohol, isostearyl alcohol, arachidyl alcohol, behenyl alcohol, carnaubyl alcohol, and oleyl alcohol.

13. A method of dyeing hair, comprising:
applying the hair cosmetic according to any one of claims 1 to 12 on hair.