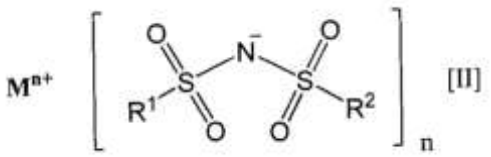
CLAIMS

1. A method for producing a fluorine-containing sulfonylamide compound, comprising a step of mixing a fluorine-containing sulfonylamide compound represented by Formula [II]:



[II]

wherein

R^1 represents a fluorinated alkyl group having 1 to 6 carbon atoms or a fluorine atom;

R^2 represents a chlorine atom or a fluorine atom;

M represents a lithium atom or an ammonium cation residue; and n is 1

with an aqueous solution of salt of sulfuric acid selected from the group consisting of lithium sulfate and ammonium sulfate, and then removing the above aqueous solution of salt of sulfuric acid,

wherein

lithium sulfate is used in case the fluorine-containing sulfonylamide compound is a lithium salt, and ammonium sulfate is used in case the fluorine-containing sulfonylamide compound is an ammonium salt.

2. The method for producing a fluorine-containing sulfonylamide compound according to claim 1, wherein the step of mixing a fluorine-containing sulfonylamide compound with an aqueous solution of salt of sulfuric acid is performed after a chlorine atom of a chlorine-containing sulfonylamide compound selected from the group consisting of chlorine-containing sulfonylamide, a lithium salt thereof and an ammonium salt thereof is replaced with a fluorine atom using a fluorinating agent.

3. The method for producing a fluorine-containing sulfonylamide compound according to claim 2, comprising a step of neutralization before the step of mixing with an aqueous solution of salt of sulfuric acid.

4. The method for producing a fluorine-containing sulfonylamide compound according to claim 2, wherein the fluorinating agent is at least one selected from the group consisting of hydrogen fluoride, metal fluoride, ammonium fluoride, ammonium fluoride-mono or -poly(hydrogen fluoride) complex, quaternary ammonium fluoride and quaternary ammonium fluoride-mono or -poly(hydrogen fluoride) complex.

5. The method for producing a fluorine-containing sulfonylamide compound according to any one of claims 1 to 4, wherein the fluorine-containing sulfonylamide is bis(fluorosulfonyl) amide.