

**METHOD FOR PRODUCING MODIFIED ALUMINOSILICATE, METHOD FOR
PRODUCING CATALYST CONTAINING MODIFIED ALUMINOSILICATE,
METHOD FOR PRODUCING AROMATIC POLYHYDROXIDE COMPOUND USING
SAME CATALYST, AND MODIFIED ALUMINOSILICATE**

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ABSTRACT

Provided is a method for producing a modified
aluminosilicate capable of highly selectively producing
hydroquinones by a reaction of phenols and hydrogen peroxide
under industrially advantageous conditions, a method for
10 producing a catalyst for producing an aromatic dihydroxide
compound, the catalyst containing a modified aluminosilicate,
a method for producing an aromatic dihydroxide compound using
the catalyst, and a modified aluminosilicate.

The method for producing an aluminosilicate of the
15 present invention includes a first step of preparing liquid
in which sol-like silica containing water was contacted with
a metal compound (AL) containing aluminum and oxygen to
obtain an aluminosilicate having a specific range of a molar
ratio of water to silica (HMR); a second step of treating the
20 aluminosilicate obtained in the first step with an acid; a
third step of subjecting the treated product obtained in the
second step to primary calcination; and a fourth step of
contacting the calcined product obtained in the third step
with liquid containing one or more elements selected from the

group consisting of elements in Group 4 and Group 5 of the Periodic Table, followed by carrying out drying and secondary calcination. The metal compound (AL) is preferably a zeolite. The first step preferably includes a step of removing water.

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[No suitable figure]