

Title of Invention

METHOD FOR MANUFACTURING MODIFIED ALUMINOSILICATE, MODIFIED
ALUMINOSILICATE, AND METHOD FOR MANUFACTURING AROMATIC
DIHYDROXY COMPOUND USING THE SAME

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ABSTRACT

There are provided a method for manufacturing a modified
aluminosilicate by which a hydroquinone is highly selectively
manufactured by reaction of a phenol with hydrogen peroxide,
10 a modified aluminosilicate, and a method for manufacturing an
aromatic dihydroxy compound by using the modified
aluminosilicate, under industrially advantageous conditions.
The method for manufacturing a modified aluminosilicate of
the present invention includes a first step of treating an
15 aluminosilicate with an acid, a second step of primarily
calcining the treated material obtained in the first step at
550°C to 850°C, and a third step of contacting the calcined
material obtained in the second step with a liquid containing
one or more elements selected from the group consisting of
20 Group 4 elements and Group 5 elements on the periodic table,
and then drying and secondarily calcining the resultant. The
modified aluminosilicate included in the present invention
includes one or more elements selected from the group
consisting of Group 4 elements and Group 5 elements on the

periodic table, and exhibits an absorbance at 300 nm (A_{300}) in an ultraviolet visible spectrum of 1.0 or higher. The method for manufacturing aromatic dihydroxy compounds of the present invention includes a step of reacting a phenol with
5 hydrogen peroxide in the presence of a specific modified aluminosilicate.

[Figure 1]