

ABSTRACT

According to a process of the invention, a ketone, an
5 aromatic compound and hydrogen as starting materials are
reacted together in a single reaction step to produce an
alkylaromatic compound in high yield. A process for producing
phenols in the invention includes a step of performing the above
alkylation process and does not increase the number of steps
10 compared to the conventional cumene process.

The process for producing alkylated aromatic compounds
includes reacting an aromatic compound such as benzene, a ketone
such as acetone and hydrogen in the presence of a solid acid
substance, preferably a zeolite, and a silver-containing
15 catalyst.