ABSTRACT

A process for producing propylene oxide comprising the following steps:

the oxidation step: a step of obtaining isopropylbenzene hydroperoxide by oxidizing isopropylbenzene;

the epoxidation step: a step of obtaining propylene oxide and cumyl alcohol by reacting propylene with isopropylbenzene hydroperoxide obtained in the oxidation step;

the hydrogenolysis step: a step of obtaining isopropylbenzene by hydrogenolyzing cumyl alcohol obtained in the epoxidation step, and recycling this isopropylbenzene to the oxidation step as a raw material of the oxidation step; and

the organic acid removal step: a step of removing an organic acid out of the system in at least one point in said steps or between said steps.