Abstract

Process for the continuous recirculation of the olefin which has not been reacted in the epoxidation of olefins by means of hydroperoxide to give oxiranes and is present in the offgas stream formed during the epoxidation, which comprises the steps (i) to (iii)

(i) compressing and cooling the offgas stream,
(ii) separating the olefin from the offgas stream obtained in step (i) by distillation,
(iii) epoxidizing the olefin separated off in step (ii) by means of hydroperoxide.