

A B S T R A C T

5 The invention relates to a process for the
preparation of an alkyl benzene by catalytic
dehydrogenation of the corresponding alkenyl cyclohexene
in the gas phase in the presence of a diluent. A
characteristic feature is that at least a part of the
alkyl cyclohexane in the reaction product is used as
10 diluent. Hydrogen can be used as an additional diluent
according to the invention.

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