

DEHYDROGENATION OF CYCLOHEXANONE TO PRODUCE PHENOL

ABSTRACT

In a process for the dehydrogenation of cyclohexanone to produce phenol, a feed comprising cyclohexanone is contacted with a dehydrogenation catalyst under dehydrogenation conditions comprising a temperature of less than 400°C and a pressure of less than 690 kPa, gauge, such that 0.1 to 50 wt% of the cyclohexanone in said feed is converted to phenol and the dehydrogenation product contains less than 100 ppm by weight of alkylbenzenes.