PROCESS FOR PRODUCTION OF ADIPIC ACID FROM 1,6-HEXANEDIOL

ABSTRACT

Processes are disclosed for the conversion of 1,6-hexanediol to adipic acid employing a chemocatalytic reaction in which 1,6-hexanediol is reacted with oxygen in the presence of particular heterogeneous catalysts including at least one of platinum or gold. The metals are preferably provided on a support selected from the group of titania, stabilized titania, zirconia, stabilized zirconia, silica or mixtures thereof, most preferably zirconia stabilized with tungsten. The reaction with oxygen is carried out at a temperature from about 100°C to about 300°C and at a partial pressure of oxygen from about 50 psig to about 2000 psig.

[No available figure]