

Method for the production of cyclopentanone

Abstract

A process for preparing cyclopentanone, at least comprising the following steps (i) to (iii):

- (i) providing a mixture G(i) comprising cyclopentene;
- (ii) providing liquid or supercritical N₂O or a liquid or supercritical gas mixture G(ii) comprising at least 20% by volume of N₂O, based on the total volume of the mixture G(ii);
- (iii) contacting the mixture G(i) with the liquid or supercritical N₂O or the liquid or supercritical mixture G(ii) to obtain a mixture G(iii) comprising cyclopentanone,

wherein the mixture G(i) contains at least 25% by weight and at most 95% by weight, of cyclopentene, based on the total weight of the mixture G(i).