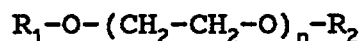


ABSTRACT

IMPROVEMENT IN THE PREPARATION OF SUPERABSORBENT POWDERS BY INVERSE SUSPENSION POLYMERISATION OF ACRYLIC MONOMERS

In order to prepare polyacrylic powders which are superabsorbent for water and aqueous liquids, by inverse suspension polymerisation which proceeds by the formation of a polymer gel by a first polymerisation of the monomer in inverse suspension followed by the polymerisation of a second charge of monomer absorbed into this gel, there are used polymerisable surfactants corresponding to the formula



where R_1 is a hydrocarbon chain having at least 9 carbon atoms and R_2 is acryloyl, methacryloyl or maleoyl.

The absorption of the monomer by the gel can take place at initial gel temperatures of 45°C. This results in a considerable advantage in respect of the performance, and economics, of the process.

This Sheet Has Been Replaced

