

ABSTRACT

PROCESS FOR THE CONTROLLED PRODUCTION OF ORGANIC PARTICLES

5 A process for the production of a microparticle or a nanoparticle of a chemical compound comprising the steps of providing a solution of said chemical compound in a first liquid; providing a second liquid in which said chemical compound is insoluble or substantially insoluble; combining said liquids in a region of high shear thereby causing formation of said particles; and isolating said
10 particles of said compound. The processing time of a coacervation style process can be reduced and the yield can be substantially increased both by control of the precipitation step which allows for the desolvation step to be dispensed with leading to significant process time reduction. The invention also provides a molecular mixing unit comprising an outer body defining a mixing zone; a shear
15 means to provide shear liquid in said mixing zone; at least one fluid inlet means for a first liquid; at least one fluid inlet means for a second liquid and a fluid outlet means.

(There is no appropriate figure to accompany abstract on publication)