

Question #84450, Chemistry / General Chemistry | for completion

in regards to liquid-liquid partitioning of caffeine and paracetamol.

what is happening when you grind up 2 tablets of paracetamol-caffeine tablets and add 5cm³ of ethyl acetate and then sonicate?

what is the importance of sonicating?

what is present in the solid portion of the slurry?

Answer:

Sonication is the mechanism used in ultrasonic cleaning—loosening particles adhering to surfaces. In addition to laboratory science applications, **sonicating** baths have applications including cleaning objects such as spectacles and jewelry. **Sonication** is used in food industry as well.

The mean velocity of the specific slurry in a particular conduit, above which the solids phase remains in suspension, and below which solid-liquid separation occurs. The single or average particle size used to represent the behavior of a mixture of various sizes of particles in a slurry.

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