

Answer on Question#41130-Chemistry-Physical chemistry

Question.

Milk is colloidal in which:

- 1) water is dispersed in fat
- 2) fat is dispersed in water
- 3) fat and water are dispersed in each other
- 4) fat is dissolved in water

Solution.

Milk is one of the most common food colloids. Protein and the fat particles make it colloid. In milk, casein proteins bunch together in clusters called 'micelles' 30-300 nm in diameter (solid suspended in liquid). Milk also contains dispersed fat globules 2-6 μm wide in raw milk, and $<1 \mu\text{m}$ in homogenized milk (an oil-water emulsion).

Answer: 2) fat is dispersed in water