

13 A volume of 1.5 m^3 of water is mixed with 0.50 m^3 of alcohol. The density of water is 1000 kg m^{-3} and the density of alcohol is 800 kg m^{-3} .

The volume of the mixture is 2.0 m^3 .

What is the density of the mixture?

A 850 kg m^{-3}

B 900 kg m^{-3}

C 940 kg m^{-3}

D 950 kg m^{-3}