Due to Archimedes' principle:

If block of wood floats in water with 4/5 of its volume, the density of wood is 4/5 of water's density:

$$\boldsymbol{\rho(wood) = \frac{4}{5}\rho(water) = 800Kg/m^3}$$

If block of wood just floats in other liquid, density of wood is equal to density of liquid:

$$\boldsymbol{\rho(wood) = \rho(liquid) = 800Kg/m^3}$$

Answer:

The density of liquid is: $\boldsymbol{800Kg/m^3}$