Table 1

Some physical properties of pure water (after Dorsey, 1940)

Molecular weight	18.0153
Heat of formation	285·89 kJmol ⁻¹ (at 25°C and 1 atm)
Ionic dissociation constant	$10^{-4} M^{-1}$ (at 25°C and 1 atm)
Heat of ionization	55.71 kJmol ⁻¹ (at 25°C and 1 atm)
Viscosity	8.949 mP (at 25°C and 1 atm)
Velocity of sound	1496·3 ms ⁻¹ (at 25°C and 1 atm)
Density	0.9979751 g cm ⁻³ (at 25°C and 1 atm)
Freezing point	0°C (at 1 atm)
Boiling point	100°C (at 1 atm)
Isothermal compressibility	$45.6 \times 10^{-6} \text{ atm}^{-1} (at 25\% \text{ area})$
o improssionity	$45.6 \times 10^{-6} \text{ atm}^{-1}$ (at 25°C over the range 1–10 atm)
Specific heat at constant volume	,
Thermal conductivity	4.1786 int.J (g°C) ⁻¹ (at 25°C and 1 atm)
	0.00598 W cm ⁻¹ °C ⁻¹ (at 20°C and 1 atm)
Temperature of maximum density	
Dielectric constant	81.0 (at 1 atm, 17°C, and 60 MHz)
Electrical conductivity	Less than $10^{-8} \Omega^{-1} \text{ cm}^{-1}$ (at 25°C and 1 atm)
	(m = 0 dia 1 dilli)