

Estimate the osmotic concentration of the 0.9% (w/v) physiological (normal) saline solution. (Answer: 308 mOsm/L)

Estimate the osmotic concentration of the 5% (w/v) glucose solution. (Answer: 278 mOsm/L)

Estimate the osmotic concentration of a Ringer's lactate solution that contains 6 g NaCl, 0.4 g KCl, 0.27 g CaCl<sub>2</sub>, 3.2 g Na-lactate in 1000 mL. (Answer: 280 mOsm/L)

Molar mass table

Substance	Molar mass (g/mol)
NaCl	58.44
KCl	74.55
CaCl <sub>2</sub>	110.98
Na-lactate	112.06
glucose	180.16