Calculate the osmolarity of sucrose?

Osmolality of RBC = 0.308 Osmolar

O = M × no. of dissociation particles

Sucrose does not dissociate (no. of dissociation particles = 1)

O.308 = M x 1= 0.308 M

**To calculate in w/v% expression

M = no. of moles / V (in L)

no. of moles= weight/ Molecular weight

→ So, weight= M x Molecular weight (in 1000 ml) = 0.308 x 342.3 = 105.4 g

105.4 →1000 ml

? → 100 ml

w/v% of NaCl = (105.4 x 100) / 1000 = 10.54% → isotonic