Concentration of solute - SOUGHT 9	Concentration of solute (component "A") - GIVEN			
	$[\%_A]$	b_A	C_M	X_A
$[\%_A]$	---	$\frac{100 b_A M_A}{b_A M_A + 1000}$	$\frac{C_M M_A}{10\rho}$	$\frac{100 X_A M_A}{X_A M_A + (1 - X_A) M_B}$
b_A	$\frac{1000[\%_A]}{M_A(100 - [\%_A])}$	---	$\frac{1000 C_M}{1000\rho - C_M M_A}$	$\frac{1000 X_A}{(1 - X_A) M_B}$
C_M	$\frac{10[\%_A]\rho}{M_A}$	$\frac{1000\rho b_A}{b_A M_A + 1000}$	---	$\frac{1000\rho X_A}{(1 - X_A) M_B + X_A M_A}$
X_A	$\frac{\frac{[\%_A]}{M_A}}{\frac{[\%_A]}{M_A} + \frac{(100 - [\%_A])}{M_B}}$	$\frac{b_A M_B}{b_A M_B + 1000}$	$\frac{C_M M_B}{1000\rho + C_M (M_B - M_A)}$	---

Symbols:

b_A / molality of solute
C_M / molarity of solute
M_A / molar mass of solute
M_B / molar mass of solvent
X_A / mole fraction of solute
$[\%_A]$ / percent of solute
D / density in g mL^{-1}