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Conversion Formula

Readers who want to convert drug concentrations to or from SI units may apply the following formulas.

To determine the conversion factor (CF): $CF = \frac{1000}{MW}$

To convert to SI units: $(\mu g/mL) \times CF = (\mu mol/L)$
To convert from SI units: $(\mu mol/L) \div CF = (\mu g/mL)$

Example: Phenytoin conversion

Conversion factor: $CF = \frac{1000}{252.3} = 3.96$

Conversion: $(\mu g/mL) \times 3.96 = (10 \mu g/mL) \times 3.96 = 39.6 \mu mol/L$;
$(39.6 \mu mol/L) \div 3.96 = 10 \mu g/mL$

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