

# Unit conversion

---

**Slide#6 solution)**

*10 ppb = 0.01 ppm*

*MW of SO<sub>2</sub> = 64.1*

*SO<sub>2</sub> conc. in μg/m<sup>3</sup>*

$$= 0.01 \text{ ppm} \times 64.1 \text{ g/mole} \times \frac{1 \text{ atm}}{8.21 \times 10^{-5} \text{ m}^3\text{-atm/K-mole} \times 293 \text{ K}}$$

$$= \mathbf{26.6 \mu\text{g/m}^3}$$