



Conversion of Air Units

$$\text{ug/m}^3 = \text{ppbv} \times (\text{Molecular Weight}) / 24.45$$

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For example:

$$2.5\text{ppbv Benzene} \times 78.11 / 24.45 = 7.99 \text{ ug/m}^3$$

(Standard Condition: 1 atm, 25oC)

ppbv = parts per billion by volume

ppmv = parts per million by volume

1 ppmv = 1,000 ppbv

1 m³ = 1,000 Liters

1 mg = 1,000 ug

1 mg/m³ = 1,000 ug/m³ = 1 ug/Liter