



DISINFECTING  
CLEANING  
PURIFYING  
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## DISPURA OZONE AIR CALCULATIONS

### Temperature and Pressure Standard:

273.3 K (0° C, 32° F) and 1013.25 mb (14.706 psi)

### Ozone in Air by Volume (Low concentrations such as work place safety)

1 g O<sub>3</sub>/m<sup>3</sup> = 467 ppm by volume

1 ppm O<sub>3</sub> (volume) = 2.14 mg O<sub>3</sub>/m<sup>3</sup>

.1 ppm O<sub>3</sub> (volume) = 214 ug/m<sup>3</sup> (used more often in Europe)

1 ppm = .00214 ug/ml    1 ug/ml = 467 ppm (used in medical ozone)

1 ppm = 100 pphm (used in rubber testing)

Concentration by volume, v/v = C (g/m<sup>3</sup>) X 1733 X T/P = 467C at STP

### Ozone in Air by Weight (High concentrations such as at the outputs of corona discharge generators)

1 g O<sub>3</sub>/m<sup>3</sup> = 782 ppm by weight

100 g O<sub>3</sub>/m<sup>3</sup> = 7.82% O<sub>3</sub> in air

1% O<sub>3</sub> (by weight) = 12.8 g/m<sup>3</sup> in air

Conc. by weight, G (or w/w) = C X .29 X T/P = .0782C at STP, C = Conc. in G/M<sup>3</sup>

### Ozone in Oxygen (High concentrations by Weight)

1 g O<sub>3</sub>/m<sup>3</sup> (of O<sub>2</sub>) = 699 ppm by weight

100 g O<sub>3</sub>/m<sup>3</sup> (of O<sub>2</sub>) = 6.99% O<sub>3</sub> in O<sub>2</sub>