

Welcome To Better Earth Environmental

In partnership with



PPM CONVERSIONS

1,000,000 ppm = 100% Vol

50,000 ppm = 5% Vol

11,000 ppm = 1.1% Vol

For Methane: 100% LEL = 5% Vol = 50,000 ppm

For Hexane: 100% LEL = 1.1% Vol = 11,000 ppm

To Convert a % LEL Reading to PPM

(% LEL reading) x (% Vol at LEL) x 100 = PPM at % LEL reading

To Convert a PPM reading to % of LEL

$$\frac{\text{(PPM reading)}}{\text{(100 x \% Vol for LEL)}} = \% \text{ LEL reading}$$

SO...

Methane: % LEL reading x 500 = PPM reading
PPM reading / 500 = % LEL reading

Hexane: % LEL reading x 110 = PPM reading
PPM reading / 110 = % LEL reading

% LEL CONVERSIONS

To covert a % Vol to % LEL

Methane

$$\frac{\% \text{ Vol}}{\% \text{ LEL}} = \frac{5\% \text{ Vol}}{100\% \text{ LEL}}$$

If % Vol of sample is 0.4% Vol

$$\frac{0.4\% \text{ Vol}}{X\% \text{ LEL}} = \frac{5\% \text{ Vol}}{100\% \text{ LEL}}$$

$$X\% \text{ LEL} = \frac{(0.4\% \text{ Vol} \times (100\% \text{ LEL}))}{5\% \text{ Vol}} = 8\% \text{ LEL}$$

Hexane

$$\frac{\% \text{ Vol}}{\% \text{ LEL}} = \frac{1.1\% \text{ Vol}}{100\% \text{ LEL}}$$

If % Vol of sample is 0.4% Vol

$$\frac{0.4\% \text{ Vol}}{X\% \text{ LEL}} = \frac{1.1\% \text{ Vol}}{100\% \text{ LEL}}$$

% VOL CONVERSIONS

To Convert % LEL to % Vol

Methane

$$\frac{\% \text{ Vol}}{\% \text{ LEL}} = \frac{5\% \text{ Vol}}{100\% \text{ LEL}}$$

If LEL is 15% LEL ...

$$X\% \text{ Vol} = \frac{(5\% \text{ Vol}) \times (15\% \text{ LEL})}{100\% \text{ LEL}} = 0.75\% \text{ Vol}$$

Hexane

$$\frac{\% \text{ Vol}}{\% \text{ LEL}} = \frac{1.1\% \text{ Vol}}{100\% \text{ LEL}}$$

If % LEL is 30% LEL...

$$X\% \text{ Vol} = \frac{(1.1\% \text{ Vol}) \times (30\% \text{ LEL})}{100\% \text{ LEL}} = 0.33\% \text{ Vol}$$