

COMMON CONVERSIONS FOR GAS DETECTION

Concentration Equivalents			Gas Factors	
1000000	ppm =	100%	1000cm ³ min	= 1 Liter per minute (LPM)
100000	ppm =	10%	1 LPM	= 0.0353147 ft ³ min = 1 Liter per minute
10000	ppm =	1%	1 bar	= 14.050368 lbs per square inch (PSI)
1000	ppm =	0.10%	Farenheit (°F)	= Celsius (°C x 1.8) + 32
100	ppm =	0.01%	1 Liter	= .2641721 gal (US Liquid)
10	ppm =	0.00%	1 lb	= 453.59237 grams
1	ppm =	0.00%		

TLV - Threshold Limit Values = Concentration of a substance that should not be exceeded for an 8 hour day / 40 hour week
Also called TWA

STEL - Short Term Exposure Limit = Concentration of a substance that should not be exceeded for 15 minutes

LEL - Lower Explosion Limit = Lowest Concentration (%) of a substance in air, oxygen or other oxidant capable of producing a flash of fire in presence of an ignition source (arc, flame, heat). Also called lower flammable limit (LFL)

UEL - Upper explosive limit = The maximum concentration (%) of a gas or vapor in the atmosphere that is able to generate a flash or a fire in the presence of an ignition source. A gas or vapor that has a higher concentration than the upper explosive limit will not be able to burn as it will be too rich. Also called upper flammable limit (UFL)

VOC - Volatile organic compounds are organic chemicals that have a high vapor pressure at ordinary room temperature.

