

# AIRBORNE MOLECULAR CONTAMINATION CONVERSION TABLE

Acids	ng/L to ppbv
F <sup>-</sup>	x 1.288
Cl <sup>-</sup>	x 0.690
NO <sub>2</sub> <sup>-</sup>	x 0.532
HPO <sub>4</sub> <sup>2-</sup>	x 0.255
Br <sup>-</sup>	x 0.306
NO <sub>3</sub> <sup>-</sup>	x 0.394
SO <sub>4</sub> <sup>2-</sup>	x 0.255

Ammonia and Bases	ng/L to ppbv
Ammonia (NH <sub>3</sub> )	x 1.438
Ammonium (NH <sub>4</sub> <sup>+</sup> )	x 1.358

Amines	ng/L to ppbv
Ethanolamine	x 0.400
Methoxypropylamine	x 0.275
Morpholine	x 0.281
Cyclohexylamine	x 0.247
Trimethylamine	x 0.414
Triethylamine	x 0.242
Diethylamine	x 0.334
Dimethylamine	x 0.542
Monoisopropanolamine	x 0.326
Aminoethoxyethanol	x 0.233
Hydroxylamine	x 0.741
Hydroxyethylpyrrolidinone	x 0.189
Diethanolamine	x 0.233
Diethylaminoethanol	x 0.209
Methylamine	x 0.789
Ethylamine	x 0.542

Trace Metals	ng/L to ppbv
Al	x 0.907
Au	x 0.124
Ca	x 0.610
Cr	x 0.470
Cu	x 0.385
Fe	x 0.438
K	x 0.626
Pb	x 0.118
Mg	x 1.006
Mn	x 0.445
Mo	x 0.255
Ni	x 0.417
Na	x 1.064
Si	x 0.871
Sn	x 0.206
Ti	x 0.511
Zn	x 0.374
W	x 0.133

Dopants	ng/L to ppbv
B	x 2.263
P	x 0.790
As	x 0.326
Sb	x 0.201

Organics	ng/L to ppbv
DOP (dioctyl phthalate)	x 0.063
Toluene	x 0.265
Xylenes or Ethylbenzene	x 0.230
HMDS (hexamethyldisiloxane)	x 0.151
NMP (N-methylpyrrolidinone)	x 0.247
TXIB (Texanol isobutyrate)	x 0.085
Texanol (ester alcohol)	x 0.113
Cyclo (Me <sub>2</sub> SiO) <sub>3</sub>	x 0.110
Cyclo (Me <sub>2</sub> SiO) <sub>4</sub>	x 0.082
Cyclo (Me <sub>2</sub> SiO) <sub>5</sub>	x 0.066
Decane	x 0.172
Benzene	x 0.314
Trichloroethylene	x 0.186
Tetrachloroethylene	x 0.147
Styrene	x 0.235
Hexadecane	x 0.108
TCA (trichloroethane)	x 0.183
PGMEA	x 0.185

Organo phosphates	ng/L to ppbv
Tributylphosphate	x 0.092
Fyrol PCF (tris(chloropropyl)phosphate)	x 0.075
Triethyl phosphate (TEP)	x 0.134

## USING THE CONVERSION TABLE

This table is for conversion of ng of analyte per liter of air or gas, into ppbv (part per billion volume) at NTP (25 °C, 760mm Hg)

To get ppbv from a concentration in ng/L of Ammonia, you multiply by 1.438.

Caution: while every care has been taken in the compilation of this table, no guarantee is given, or implied, as to its accuracy

**ppbv (part per billion volume) is equivalent to  
ppbM (part per billion Molar)**