

LABORATORY ANALYST
Formula and General Information

Element Symbols and Atomic Weights:*

Aluminum	Al	27
Arsenic	As	75
Calcium	Ca	40
Carbon	C	12
Chlorine	Cl	35.5
Chromium	Cr	52
Copper	Cu	63.5
Hydrogen	H	1
Iodine	I	126.9
Magnesium	Mg	24
Nickel	Ni	59
Nitrogen	N	14
Oxygen	O	16
Phosphorus	P	31
Potassium	K	39
Silver	Ag	108
Sodium	Na	23
Sulfur	S	32

Conversion Factors:

1 gal = 8.34 lbs
1 cu ft = 7.48 gal
1 lb = 454 grams

Abbreviations

AA = atomic absorption
AE = atomic emission
mL = milliliter
mg = milligram
L = liter
g = gram
GC = gas chromatography
F = formal
M = molar
N = normal

MGD = million gallons per day

MPN Index (10 mL, 1.0 mL, 0.1 mL)

5 - 3 - 0	80
5 - 5 - 3	900
5 - 5 - 5	> 1600

*Source: Standard Methods for the Examination of Water and Wastewater, 18th Edition.