

**BAC FORMATS**  
**BLOOD ALCOHOL CONCENTRATION (BAC)**

The results of a breath analysis may be express in any of the common methods for blood alcohol concentration:

mg% - milligrams of alcohol in 100 millilitres of blood

%BAC - grams of alcohol in 100 millilitres of blood

Promille - grams of alcohol in 1 litre of blood

The relationship between these expressions is illustrated as follows:

$$80 \text{ mg}\% \cong 0.08 \text{ \%BAC} \cong 0.80 \text{ \% Promille}$$

**BREATH ALCOHOL CONCENTRATION (BrAC)**

The results of a breath analysis may also be expressed directly in terms of breath alcohol concentration:

mg/litre - milligrams of alcohol in 1 litre of breath

mg/210L - milligrams of alcohol in 210 litres of breath

µg/100 mL - micrograms of alcohol in 100 millilitres of breath

$$100 \text{ mg}\% \cong 0.48 \text{ mg/L} \cong 100 \text{ mg/210L} \cong 48 \text{ µg/100 mL}$$

<b><u>BAC</u></b>			<b><u>BrAC</u></b>		
<i>mg%</i>	<i>%BAC</i>	<i>% Promille</i>	<i>mg/L</i>	<i>mg/210 L</i>	<i>µg/100 mL</i>
10	0.01	0.10	0.05	10	5
20	0.02	0.20	0.10	20	10
30	0.03	0.30	0.14	30	14
40	0.04	0.40	0.19	40	19
50	0.05	0.50	0.24	50	24
60	0.06	0.60	0.29	60	29
80	0.08	0.80	0.38	80	38
100	0.10	1.00	0.48	100	48
110	0.11	1.10	0.52	110	52
150	0.15	1.50	0.71	150	71
200	0.20	2.00	0.95	200	95
300	0.30	3.00	1.43	300	143