Blood Alcohol Concentration by Body Weight

Approximate Percent of Alcohol Concentration in Blood*

<table>
<thead>
<tr>
<th>Weight (lbs.)</th>
<th>100</th>
<th>120</th>
<th>140</th>
<th>150</th>
<th>160</th>
<th>180</th>
<th>200</th>
<th>220</th>
<th>240</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.038</td>
<td>0.031</td>
<td>0.027</td>
<td>0.025</td>
<td>0.023</td>
<td>0.021</td>
<td>0.019</td>
<td>0.017</td>
<td>0.016</td>
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<tr>
<td></td>
<td>0.075</td>
<td>0.063</td>
<td>0.054</td>
<td>0.051</td>
<td>0.047</td>
<td>0.042</td>
<td>0.038</td>
<td>0.034</td>
<td>0.031</td>
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<tr>
<td></td>
<td>0.113</td>
<td>0.094</td>
<td>0.080</td>
<td>0.075</td>
<td>0.070</td>
<td>0.063</td>
<td>0.056</td>
<td>0.051</td>
<td>0.047</td>
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<tr>
<td></td>
<td>0.150</td>
<td>0.125</td>
<td>0.107</td>
<td>0.101</td>
<td>0.094</td>
<td>0.083</td>
<td>0.075</td>
<td>0.068</td>
<td>0.063</td>
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<tr>
<td></td>
<td>0.188</td>
<td>0.156</td>
<td>0.134</td>
<td>0.126</td>
<td>0.117</td>
<td>0.104</td>
<td>0.094</td>
<td>0.085</td>
<td>0.078</td>
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<tr>
<td></td>
<td>0.225</td>
<td>0.188</td>
<td>0.161</td>
<td>0.151</td>
<td>0.141</td>
<td>0.125</td>
<td>0.113</td>
<td>0.102</td>
<td>0.094</td>
</tr>
<tr>
<td></td>
<td>0.263</td>
<td>0.219</td>
<td>0.188</td>
<td>0.176</td>
<td>0.164</td>
<td>0.146</td>
<td>0.131</td>
<td>0.119</td>
<td>0.109</td>
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<tr>
<td></td>
<td>0.300</td>
<td>0.250</td>
<td>0.214</td>
<td>0.201</td>
<td>0.188</td>
<td>0.167</td>
<td>0.150</td>
<td>0.136</td>
<td>0.125</td>
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<tr>
<td></td>
<td>0.338</td>
<td>0.281</td>
<td>0.241</td>
<td>0.226</td>
<td>0.211</td>
<td>0.188</td>
<td>0.169</td>
<td>0.153</td>
<td>0.141</td>
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<tr>
<td></td>
<td>0.375</td>
<td>0.313</td>
<td>0.268</td>
<td>0.251</td>
<td>0.234</td>
<td>0.208</td>
<td>0.188</td>
<td>0.170</td>
<td>0.156</td>
</tr>
</tbody>
</table>

Total Number of Drinks**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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<tbody>
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<td></td>
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</tr>
</tbody>
</table>

*If these drinks were not taken within one hour, deduct one drink from the total number of drinks for each hour that elapsed between the first and last drink.

** A drink is defined as one ounce of 100 proof "hard liquor" (whiskey, vodka, gin, etc.) or twelve ounces of 4% beer or three ounces of fortified wine.

**PHARMACOLOGICAL EFFECTS OF ALCOHOL**

Somesthetic-Psychic Area
Affected by 0.10–0.30% Alcohol
Dulled or distorted sensibilities

Psychomotor Area
Affected by 0.10–0.20% Alcohol
Apraxia, Agraphia, Ataxia (Tremors, Slurred Speech, Loss of Skill)

Visuo-Psychic Area
Affected by 0.20–0.30% Alcohol
Disturbance of: Color Perception, Dimensions, Diplopia, Form, Motion, Distance

Cerebellum
Affected by 0.15%–0.35% Alcohol
Disturbance of Equilibrium

"The action of alcohol on the brain is from first to last, like that of a narcotic drug."

Frontal Lobe
Affected by 0.01–0.10% Alcohol
Removal of inhibitions, loss of self control, weakness of will power, development of euphoria, increased confidence, generosity, altered judgement, increased good fellowship, loquaciousness, dulling of attention

Diencephalon
Affected by 0.25–0.40% Alcohol
Apathy, Inertia, Tremors, Cessation of Automatic Movements, Sweating, Dilation of Surface Capillaries, Stupor, Coma

Medulla
Affected by 0.40–0.50% Alcohol
Depression of Respiration, Peripheral Collapse, Subnormal Temperature, Death
ALCOHOL EFFECTS ON THE BRAIN
Demonstrated Pictorially

Blood Alcohol Concentration

0.40–0.50%

0.25–0.40%

0.20–0.30%

0.15–0.35%

0.10–0.30%

0.10–0.20%

0.01–0.10%

Frontal Lobe
Psychomotor
Somestheto-Psychic
Cerebellum
Visuo-Psychic
Diencephalon
Medulla