

# GAS CONVERSION DATA

| <b>ARGON</b> |              |                 |                   |                     |                |             |
|--------------|--------------|-----------------|-------------------|---------------------|----------------|-------------|
|              | WEIGHT       |                 | GAS               |                     | LIQUID         |             |
|              | POUNDS<br>lb | KILOGRAMS<br>kg | CUBIC FEET<br>scf | CUBIC METERS<br>Nm3 | GALLONS<br>gal | LITERS<br>L |
| 1 pound      | 1.0          | 0.153592        | 9.696             | 0.2543              | 0.086          | 0.3255      |
| 1 kilogram   | 2.20462      | 1.0             | 21.33             | 0.5606              | 0.1896         | 0.7178      |
| 1 ton        | 2000         | 907.18          | 19.352            | 508.6               | 172            | 651         |
| 1 scf Gas    | 0.1034       | 0.0469          | 1.0               | 0.02628             | 0.00889        | 0.0336      |
| 1 Nm3 Gas    | 3.931        | 1.783           | 38.04             | 1.0                 | 0.3376         | 1.277       |
| 1 gal Liquid | 11.628       | 5.2743          | 112.51            | 2.957               | 1.0            | 3.78531     |
| 1 L Liquid   | 3.071        | 1.393           | 29.715            | 0.78091             | 0.264172       | 1.0         |

| <b>CARBON DIOXIDE</b> |              |                 |                   |                     |                |             |
|-----------------------|--------------|-----------------|-------------------|---------------------|----------------|-------------|
|                       | WEIGHT       |                 | GAS               |                     | LIQUID         |             |
|                       | POUNDS<br>lb | KILOGRAMS<br>kg | CUBIC FEET<br>scf | CUBIC METERS<br>Nm3 | GALLONS<br>gal | LITERS<br>L |
| 1 pound               | 1.0          | 0.453592        | 8.742             | 0.2297              | 0.1180         | 0.4466      |
| 1 kilogram            | 2.20462      | 1.0             | 19.272            | 0.5064              | 0.2601         | 0.98458     |
| 1 ton                 | 2,000        | 907.18          | 17,484            | 459.4               | 236            | 893.3       |
| 1 scf Gas             | 0.1144       | 0.05189         | 1.0               | 0.02628             | 0.01349        | 0.05109     |
| 1 Nm3 Gas             | 4.3535       | 1.974           | 38.04             | 1.0                 | 0.5136         | 1.9443      |
| 1 gal Liquid          | 8.474        | 3.8437          | 74.079            | 1.946               | 1.0            | 3.78531     |
| 1 L Liquid            | 2.239        | 1.0155          | 19.574            | 0.5144              | 0.264172       | 1.0         |

| <b>HELIUM</b> |              |                 |                   |                     |                |             |
|---------------|--------------|-----------------|-------------------|---------------------|----------------|-------------|
|               | WEIGHT       |                 | GAS               |                     | LIQUID         |             |
|               | POUNDS<br>lb | KILOGRAMS<br>kg | CUBIC FEET<br>scf | CUBIC METERS<br>Nm3 | GALLONS<br>gal | LITERS<br>L |
| 1 pound       | 1.0          | 0.453592        | 96.68             | 2.541               | 0.9593         | 3.631       |
| 1 kilogram    | 2.20462      | 1.0             | 213.14            | 5.601               | 2.115          | 8.005       |
| 1 ton         | 2,000        | 907.18          | 193,360           | 5,082               | 1,918.6        | 7,262       |
| 1 scf Gas     | 0.01034      | 0.00469         | 1.0               | 0.02628             | 0.009919       | 0.03754     |
| 1 Nm3 Gas     | 0.3935       | 0.17848         | 38.04             | 1.0                 | 0.37746        | 1.4288      |
| 1 gal Liquid  | 1.042        | 0.47264         | 100.74            | 2.6474              | 1.0            | 3.78531     |
| 1 L Liquid    | 0.2754       | 0.124919        | 26.625            | 0.6997              | 0.264172       | 1.0         |

| <b>NITROGEN</b> |              |                 |                   |                     |                |             |
|-----------------|--------------|-----------------|-------------------|---------------------|----------------|-------------|
|                 | WEIGHT       |                 | GAS               |                     | LIQUID         |             |
|                 | POUNDS<br>lb | KILOGRAMS<br>kg | CUBIC FEET<br>scf | CUBIC METERS<br>Nm3 | GALLONS<br>gal | LITERS<br>L |
| 1 pound         | 1.0          | 0.453592        | 13.80             | 0.3627              | 0.148          | 0.5612      |
| 1 kilogram      | 2.20462      | 1.0             | 30.43             | 0.7996              | 0.326          | 1.237       |
| 1 ton           | 2,000        | 907.18          | 27,600            | 725.4               | 296            | 1122.4      |
| 1 scf Gas       | 0.07246      | 0.03287         | 1.0               | 0.02628             | 0.01072        | 0.040664    |
| 1 Nm3 Gas       | 2.757        | 1.2506          | 35.3              | 1.0                 | 0.37858        | 1.547       |
| 1 gal Liquid    | 6.745        | 3.059           | 93.09             | 2.4467              | 1.0            | 3.78531     |
| 1 L Liquid      | 1.782        | 0.80829         | 24.59             | 0.64633             | 0.264172       | 1.0         |

| <b>OXYGEN</b> |              |                 |                   |                     |                |             |
|---------------|--------------|-----------------|-------------------|---------------------|----------------|-------------|
|               | WEIGHT       |                 | GAS               |                     | LIQUID         |             |
|               | POUNDS<br>lb | KILOGRAMS<br>kg | CUBIC FEET<br>scf | CUBIC METERS<br>Nm3 | GALLONS<br>gal | LITERS<br>L |
| 1 pound       | 1.0          | 0.453592        | 12.08             | 0.3175              | 0.105          | 0.3973      |
| 1 kilogram    | 2.20462      | 1.0             | 26.64             | 0.6999              | 0.2315         | 0.8765      |
| 1 ton         | 2000         | 907.18          | 24160             | 635                 | 210            | 795         |
| 1 scf Gas     | 0.08281      | 0.03756         | 1.0               | 0.02629             | 0.008695       | 0.03291     |
| 1 Nm3 Gas     | 3.1496       | 1.4284          | 38.04             | 1.0                 | 0.3307         | 1.2515      |
| 1 gal Liquid  | 9.528        | 4.321           | 115.1             | 3.025               | 1.0            | 3.78531     |
| 1 L Liquid    | 2.517        | 1.1416          | 30.45             | 0.79914             | 0.264172       | 1.0         |

| <b>PROPANE</b> |              |                 |                   |                     |                |             |
|----------------|--------------|-----------------|-------------------|---------------------|----------------|-------------|
|                | WEIGHT       |                 | GAS               |                     | LIQUID         |             |
|                | POUNDS<br>lb | KILOGRAMS<br>kg | CUBIC FEET<br>scf | CUBIC METERS<br>Nm3 | GALLONS<br>gal | LITERS<br>L |
| 1 pound        | 1.0          | 0.453592        | 8.623             | 0.2266              | 0.2369         | 0.8967      |
| 1 kilogram     | 2.20462      | 1.0             | 19.01             | 0.49958             | 0.52222        | 1.9768      |
| 1 ton          | 2,000        | 907.18          | 17,246            | 453.0               | 473.8          | 1,793.4     |
| 1 scf Gas      | 0.116        | 0.05261         | 1.0               | 0.02628             | 0.02748        | 0.1040      |
| 1 Nm3 Gas      | 4.413        | 2.0             | 38.04             | 1.0                 | 1.0454         | 3.9571      |
| 1 gal Liquid   | 4.22         | 1.914           | 36.389            | 0.9563              | 1.0            | 3.78531     |
| 1 L Liquid     | 1.1152       | 0.5058          | 9.616             | 0.2527              | 0.264172       | 1.0         |