Dimensions, units, figures

Conversion factors, units and energy content

Decimal multipliers

<table>
<thead>
<tr>
<th>Designation</th>
<th>Factor</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>kilo (k)</td>
<td>$10^3$</td>
<td>1 000</td>
</tr>
<tr>
<td>mega (M)</td>
<td>$10^6$</td>
<td>1 000 000</td>
</tr>
<tr>
<td>giga (G)</td>
<td>$10^9$</td>
<td>1 000 000 000</td>
</tr>
<tr>
<td>tera (T)</td>
<td>$10^{12}$</td>
<td>1 000 000 000 000</td>
</tr>
<tr>
<td>peta (P)</td>
<td>$10^{15}$</td>
<td>1 000 000 000 000 000</td>
</tr>
</tbody>
</table>

Units

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Unit</th>
<th>Symbol</th>
<th>Conversion factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>watt</td>
<td>[W]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>horsepower</td>
<td>[HP]</td>
<td>1 HP = 735 W</td>
</tr>
<tr>
<td>Energy</td>
<td>joule</td>
<td>[J]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>watt-second</td>
<td>[Ws]</td>
<td>1 Ws = 1 J</td>
</tr>
<tr>
<td></td>
<td>kilowatt-hour</td>
<td>[kWh]</td>
<td>1 kWh = 3 600 000 000 J = 3,6 MJ</td>
</tr>
<tr>
<td></td>
<td>calorie</td>
<td>[cal]</td>
<td>1 cal = 4,186 J</td>
</tr>
</tbody>
</table>

Conversion factors

<table>
<thead>
<tr>
<th>into:</th>
<th>from:</th>
<th>J</th>
<th>TJ</th>
<th>kWh</th>
<th>GWh</th>
<th>cal</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td></td>
<td>1</td>
<td>$1 \times 10^{12}$</td>
<td>$0,2778 \times 10^6$</td>
<td>$0,2778 \times 10^{12}$</td>
<td>$0,2388$</td>
</tr>
<tr>
<td>TJ</td>
<td>1</td>
<td></td>
<td>1</td>
<td>$0,2778 \times 10^6$</td>
<td>$0,2778$</td>
<td>$0,2388 \times 10^{12}$</td>
</tr>
<tr>
<td>kWh</td>
<td>3,6 $\times 10^6$</td>
<td>3,6 $\times 10^6$</td>
<td>1</td>
<td>$1 \times 10^{-6}$</td>
<td>$0,8598 \times 10^6$</td>
<td></td>
</tr>
<tr>
<td>GWh</td>
<td>3,6 $\times 10^{12}$</td>
<td>3,6</td>
<td>$1 \times 10^6$</td>
<td>1</td>
<td>$0,8598 \times 10^{12}$</td>
<td></td>
</tr>
<tr>
<td>cal</td>
<td>4,186</td>
<td>4,186 $\times 10^{-12}$</td>
<td>$1,163 \times 10^{-6}$</td>
<td>$1,163 \times 10^{-12}$</td>
<td>1</td>
<td></td>
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</tbody>
</table>