|  |
| --- |
| **Table of specific heat capacities** at 25 °C (298 K) **Substance** | [**Phase**](http://en.wikipedia.org/wiki/Phase_%28matter%29) | **specificheat capacity*cm*J/kg·K** |  |  |  |  |
|  |  |  |  |  |  |  |
| [Air](http://en.wikipedia.org/wiki/Earth%27s_atmosphere) (Sea level, dry,0 °C (273.15 K)) | gas | 1003.5 |  |  |  |  |
| Air (typical room conditionsA) | gas | 1012. |  |  |  |  |
| [Aluminium](http://en.wikipedia.org/wiki/Aluminium) | solid | 897. |  |  |  |  |
| [Ammonia](http://en.wikipedia.org/wiki/Ammonia) | liquid | 4700. |  |  |  |  |
| [Copper](http://en.wikipedia.org/wiki/Copper) | solid | 385 |  |  |  |  |
| [Diamond](http://en.wikipedia.org/wiki/Diamond) | solid | 509.1 |  |  |  |  |
| [Ethanol](http://en.wikipedia.org/wiki/Ethanol) | liquid | 2440 |  |  |  |  |
| [Glass](http://en.wikipedia.org/wiki/Glass)[[22]](http://en.wikipedia.org/wiki/Specific_heat_capacity#cite_note-hypph-23) | solid | 840 |  |  |  |  |
| [Gold](http://en.wikipedia.org/wiki/Gold) | solid | 129 |  |  |  |  |
| [Graphite](http://en.wikipedia.org/wiki/Graphite) | solid | 710 |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| [Iron](http://en.wikipedia.org/wiki/Iron) | solid | 450 |  |  |  |  |
| [**Lead**](http://en.wikipedia.org/wiki/Lead) | solid | 129 |  |  |  |  |
| [Mercury](http://en.wikipedia.org/wiki/Mercury_%28element%29) | liquid | 139.5 |  |  |  |  |
| [Methanol](http://en.wikipedia.org/wiki/Methanol) (298 K)  | liquid | 2140 |  |  |  |  |
| [Silver](http://en.wikipedia.org/wiki/Silver)[[22]](http://en.wikipedia.org/wiki/Specific_heat_capacity#cite_note-hypph-23) | solid | 233 |  |  |  |  |
| [Sodium](http://en.wikipedia.org/wiki/Sodium) | solid | 1230 |  |  |  |  |
| [Steel](http://en.wikipedia.org/wiki/Steel) | solid | 466 |  |  |  |  |
| [Water](http://en.wikipedia.org/wiki/Water_%28molecule%29) at 100 °C (steam) | gas | **2080** |  |  |  |  |
| [Water](http://en.wikipedia.org/wiki/Water_%28molecule%29) at 25 °C | liquid | **4181.3** |  |  |  |  |
| [Water](http://en.wikipedia.org/wiki/Water_%28molecule%29) at 100 °C | liquid | **4181.3** |  |  |  |  |
| [Water](http://en.wikipedia.org/wiki/Water_%28molecule%29) at −10 °C (ice)[[22]](http://en.wikipedia.org/wiki/Specific_heat_capacity#cite_note-hypph-23) | solid | **2110** |  |  |  |  |
| [Zinc](http://en.wikipedia.org/wiki/Zinc)[[22]](http://en.wikipedia.org/wiki/Specific_heat_capacity#cite_note-hypph-23) | solid | 387 |  |  |  |  |
|  |  |  |  |  |  |  |

A Assuming an altitude of 194 metres above mean sea level (the world–wide median

**Latent Heats and change of phase temperatures of some common fluids and gases.**

| **Substance** | **Latent HeatFusionkJ/kg** | **MeltingPoint°C** | **Latent HeatVaporizationkJ/kg** | **BoilingPoint°C** |
| --- | --- | --- | --- | --- |
| [Alcohol, ethyl](http://en.wikipedia.org/wiki/Ethanol) | 108 | −114 | 855 | 78.3 |
| [Ammonia](http://en.wikipedia.org/wiki/Ammonia) | 339 | −75 | 1369 | −33.34 |
| [Carbon dioxide](http://en.wikipedia.org/wiki/Carbon_dioxide) | 184 | −78 | 574 | −57 |
| [Helium](http://en.wikipedia.org/wiki/Helium) |   |   | 21 | −268.93 |
| [Hydrogen](http://en.wikipedia.org/wiki/Hydrogen)(2) | 58 | −259 | 455 | −253 |
| [Lead](http://en.wikipedia.org/wiki/Lead)[[8]](http://en.wikipedia.org/wiki/Latent_heat#cite_note-8) | 23.0 | 327.5 | 871 | 1750 |
| [Nitrogen](http://en.wikipedia.org/wiki/Nitrogen) | 25.7 | −210 | 200 | −196 |
| [Oxygen](http://en.wikipedia.org/wiki/Oxygen) | 13.9 | −219 | 213 | −183 |
| [Toluene](http://en.wikipedia.org/wiki/Toluene) | 72.1 | −93 | 351 | 110.6 |
| [Water](http://en.wikipedia.org/wiki/Water) | 334 | 0 | 2260 | 100 |