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| --- | --- | --- | --- |
| Critical parameters  Substance | Temperature() | Pressure() | Density() |
| CH4（methane） | 190.56 | 4.5992 | 162.66 |
| O2(oxygen) | 154.58 | 5.043 | 436.14 |
| H2(hydrogen normal) | 33.145 | 1.2964 | 31.263 |
| H2(parahydrogen) | 32.938 | 1.2858 | 31.324 |
| N2(nitrogen) | 126.19 | 3.3958 | 313.3 |
| CO2(carbon dioxide) | 304.13 | 7.3773 | 467.6 |