

# hafnium

|                             |                             |
|-----------------------------|-----------------------------|
| <b>Other names:</b>         | hafnium element             |
| <b>Inchi:</b>               | InChI=1S/Hf                 |
| <b>InchiKey:</b>            | VBJZVLUMGGDVMO-UHFFFAOYSA-N |
| <b>Formula:</b>             | Hf                          |
| <b>SMILES:</b>              | [Hf]                        |
| <b>Mol. weight [g/mol]:</b> | 178.49                      |
| <b>CAS:</b>                 | 7440-58-6                   |

## Physical Properties

| Property code | Value       | Unit | Source  |
|---------------|-------------|------|---|
| ie            | 6.83 ± 0.00 | eV   | NIST Webbook  |
| ie            | 6.83        | eV   | NIST Webbook  |
| ie            | 6.83 ± 0.00 | eV   | NIST Webbook  |
| ie            | 6.65 ± 0.10 | eV   | NIST Webbook  |
| ie            | 6.70 ± 0.10 | eV   | NIST Webbook  |
| tt            | 2004.00     | K    | Thermophysical Properties of Solid Phase Hafnium at High Temperatures |

## Correlations

| Information                 | Value                         |
|-----------------------------|-------------------------------|
| Property code               | pvap                          |
| Equation                    | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A                    | 1.88577e+01                   |
| Coeff. B                    | -6.96139e+04                  |
| Coeff. C                    | 1.26700e+01                   |
| Temperature range (K), min. | 2689.15                       |
| Temperature range (K), max. | 4876.15                       |

## Sources

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440586&Units=SI>

**The Yaws Handbook of Vapor**

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

**Pressure:**

**Thermophysical Properties of Solid  
Phase Hafnium at High Temperatures:**

<https://www.doi.org/10.1007/s10765-006-0045-2>

## Legend

**ie:** Ionization energy  
**pvap:** Vapor pressure  
**tt:** Triple Point Temperature

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