

# terbium

**Inchi:** InChI=1S/Tb  
**InchiKey:** GZCRRIHWUXGPOV-UHFFFAOYSA-N  
**Formula:** Tb  
**SMILES:** [Tb]  
**Mol. weight [g/mol]:** 158.93  
**CAS:** 7440-27-9

## Physical Properties

Property code	Value	Unit	Source
ie	5.86 ± 0.00	eV	NIST Webbook
ie	5.86	eV	NIST Webbook
ie	5.86 ± 0.00	eV	NIST Webbook
ie	5.86 ± 0.00	eV	NIST Webbook
ie	5.86 ± 0.00	eV	NIST Webbook
ie	5.80 ± 0.10	eV	NIST Webbook
ie	5.89 ± 0.04	eV	NIST Webbook
ie	5.85 ± 0.02	eV	NIST Webbook
ie	5.98 ± 0.02	eV	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.50656e+01
Coeff. B	-3.41349e+04
Coeff. C	-2.35780e+02
Temperature range (K), min.	1789.25
Temperature range (K), max.	3503.15

# Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440279&Units=SI>

**The Yaws Handbook of Vapor Pressure:** <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

**Thermodynamic stability of RNi<sub>2</sub> Laves phases:** <https://www.doi.org/10.1016/j.jct.2013.05.044>

**Investigation in the variation of Gibbs energy of formation of RE<sub>6</sub>UO<sub>12</sub> (RE = La, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Tm, Yb, Lu) along the 4f series:** <https://www.doi.org/10.1016/j.jct.2019.06.030>

## Legend

**ie:** Ionization energy  
**pvap:** Vapor pressure

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