

ytterbium

Inchi:	InChI=1S/Yb
InchiKey:	NAWDYIZEMPQZHO-UHFFFAOYSA-N
Formula:	Yb
SMILES:	[Yb]
Mol. weight [g/mol]:	173.05
CAS:	7440-64-4

Physical Properties

Property code	Value	Unit	Source
ie	6.25	eV	NIST Webbook
ie	6.25	eV	NIST Webbook
ie	6.25 ± 0.00	eV	NIST Webbook
ie	6.20 ± 0.10	eV	NIST Webbook
ie	6.30 ± 0.30	eV	NIST Webbook
ie	6.25 ± 0.00	eV	NIST Webbook
ie	6.25	eV	NIST Webbook
ie	6.25 ± 0.01	eV	NIST Webbook
ie	6.04 ± 0.04	eV	NIST Webbook
ie	5.90 ± 0.10	eV	NIST Webbook
ie	6.25 ± 0.02	eV	NIST Webbook
ie	6.69 ± 0.08	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.47498e+01
Coeff. B	-1.39541e+04
Coeff. C	-9.18500e+01
Temperature range (K), min.	736.15
Temperature range (K), max.	1469.15

Sources

Investigation in the variation of Gibbs energy of formation of RE₆UO₁₂ (RE = La, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Tm, Yb, Lu) along the 4f series;
The Yaws Handbook of Vapor Pressure:

<https://www.doi.org/10.1016/j.jct.2019.06.030>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440644&Units=SI>

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

Legend

ie: Ionization energy

pvap: Vapor pressure

Latest version available from:

<https://www.cheméo.com/cid/24-432-5/ytterbium.pdf>

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