

erbium

Inchi: InChI=1S/Er
InchiKey: UYAHIZSMUZPPFV-UHFFFAOYSA-N
Formula: Er
SMILES: [Er]
Mol. weight [g/mol]: 167.26
CAS: 7440-52-0

Physical Properties

Property code	Value	Unit	Source
ie	6.11 ± 0.00	eV	NIST Webbook
ie	6.11	eV	NIST Webbook
ie	6.11 ± 0.00	eV	NIST Webbook
ie	6.11 ± 0.00	eV	NIST Webbook
ie	6.10 ± 0.00	eV	NIST Webbook
ie	6.11 ± 0.00	eV	NIST Webbook
ie	5.90 ± 0.10	eV	NIST Webbook
ie	5.95 ± 0.03	eV	NIST Webbook
ie	6.36 ± 0.10	eV	NIST Webbook
ie	6.11 ± 0.10	eV	NIST Webbook
ie	6.10 ± 0.02	eV	NIST Webbook
ie	6.23 ± 0.09	eV	NIST Webbook
ie	6.08 ± 0.03	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.42756e+01
Coeff. B	-2.90547e+04
Coeff. C	-1.32580e+02
Temperature range (K), min.	1504.15
Temperature range (K), max.	3141.15

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440520&Units=SI>
The Yaws Handbook of Vapor Pressure: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
Thermodynamic stability of RNi₂ Laves phases: <https://www.doi.org/10.1016/j.jct.2013.05.044>
Phase equilibria of the systems of CsCl + ErCl₃ + H₂O and CsCl + ErCl₃ + HCl (~10.7%, ~14.4%) + H₂O at T = 298.15 K and the standard molar enthalpies of formation of solid phase compounds: <https://www.doi.org/10.1016/j.jct.2013.09.016>

Legend

ie: Ionization energy

pvap: Vapor pressure

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