

thulium

Inchi:	InChI=1S/Tm
InchiKey:	FRNOGLGSGGLTDKL-UHFFFAOYSA-N
Formula:	Tm
SMILES:	[Tm]
Mol. weight [g/mol]:	168.93
CAS:	7440-30-4

Physical Properties

Property code	Value	Unit	Source
ea	0.03 ± 0.01	eV	NIST Webbook
ea	1.03 ± 0.02	eV	NIST Webbook
ie	5.87 ± 0.10	eV	NIST Webbook
ie	6.10 ± 0.10	eV	NIST Webbook
ie	5.70	eV	NIST Webbook
ie	6.18 ± 0.01	eV	NIST Webbook
ie	6.03 ± 0.04	eV	NIST Webbook
ie	6.18 ± 0.00	eV	NIST Webbook
ie	6.18 ± 0.02	eV	NIST Webbook
ie	6.18 ± 0.02	eV	NIST Webbook
ie	6.22 ± 0.02	eV	NIST Webbook
ie	6.15 ± 0.02	eV	NIST Webbook
ie	6.18	eV	NIST Webbook
ie	6.18 ± 0.00	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.59968e+01
Coeff. B	-2.40282e+04
Coeff. C	-6.81000e+01
Temperature range (K), min.	1117.15
Temperature range (K), max.	1570.15

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440304&Units=SI>

The Yaws Handbook of Vapor

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

Pressure:

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:

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

Legend

ea: Electron affinity
ie: Ionization energy
pvap: Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/15-497-4/thulium.pdf>

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