

Thallium

Inchi:	InChI=1S/Tl
InchiKey:	BKVIYDNLLOSFOA-UHFFFAOYSA-N
Formula:	Tl
SMILES:	[Tl]
Mol. weight [g/mol]:	204.38
CAS:	7440-28-0

Physical Properties

Property code	Value	Unit	Source
ea	0.38 ± 0.01	eV	NIST Webbook
ea	0.10 ± 0.20	eV	NIST Webbook
ea	1.15 ± 0.15	eV	NIST Webbook
ie	6.11	eV	NIST Webbook
ie	6.11	eV	NIST Webbook
ie	6.11	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.54386e+01
Coeff. B	-1.85590e+04
Coeff. C	-4.36500e+01
Temperature range (K), min.	882.15
Temperature range (K), max.	1758.15

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440280&Units=SI>
Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Experimental study on gallium activity in the liquid Ga-In-Tl alloys by EMF <https://www.doi.org/10.1016/j.tca.2005.01.061>

The Yaws Handbook of Vapor Pressure: Method with Zirconia Solid Electrolyte: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/17-563-8/Thallium.pdf>

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