

# 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>

**The Yaws Handbook of Vapor Pressure:**

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

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

## Legend

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

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