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(Pvp) = 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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