

Rhodium

Other names:	rhodium black
	rhodium-103
Inchi:	InChI=1S/Rh
InchiKey:	MHOVAHRLVXNVSD-UHFFFAOYSA-N
Formula:	Rh
SMILES:	[Rh]
Mol. weight [g/mol]:	102.91
CAS:	7440-16-6

Physical Properties

Property code	Value	Unit	Source
affp	768.00	kJ/mol	NIST Webbook
basg	745.40	kJ/mol	NIST Webbook
ea	1.14 ± 0.00	eV	NIST Webbook
ea	1.14 ± 0.01	eV	NIST Webbook
ie	7.46 ± 0.00	eV	NIST Webbook
ie	7.46	eV	NIST Webbook
ie	7.46 ± 0.00	eV	NIST Webbook
ie	7.20 ± 0.50	eV	NIST Webbook
ie	7.42 ± 0.08	eV	NIST Webbook
ie	7.10 ± 0.60	eV	NIST Webbook
ie	7.46	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	2.02860e+01
Coeff. B	-6.17869e+04
Coeff. C	-2.45600e+01
Temperature range (K), min.	2288.15
Temperature range (K), max.	3968.15

Sources

The Yaws Handbook of Vapor
Pressure:
NIST Webbook:

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440166&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Gibbs free energy of formation of
rhodium sulfides:

<https://www.doi.org/10.1016/j.jct.2013.10.011>

Legend

affp:	Proton affinity
basg:	Gas basicity
ea:	Electron affinity
ie:	Ionization energy
pvap:	Vapor pressure

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