

ruthenium

Inchi:	InChI=1S/Ru
InchiKey:	KJTLSVCANCCWHF-UHFFFAOYSA-N
Formula:	Ru
SMILES:	[Ru]
Mol. weight [g/mol]:	101.07
CAS:	7440-18-8

Physical Properties

Property code	Value	Unit	Source
affp	774.00	kJ/mol	NIST Webbook
basg	751.40	kJ/mol	NIST Webbook
ea	1.05 ± 0.00	eV	NIST Webbook
ie	7.36 ± 0.00	eV	NIST Webbook
ie	7.16 ± 0.07	eV	NIST Webbook
ie	7.37	eV	NIST Webbook
ie	7.36 ± 0.00	eV	NIST Webbook
ie	7.36	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.94819e+01
Coeff. B	-6.16964e+04
Coeff. C	-2.40060e+02
Temperature range (K), min.	2588.15
Temperature range (K), max.	4388.15

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440188&Units=SI>

The Yaws Handbook of Vapor Pressure:

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

Legend

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

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