

# iridium

Inchi:

InChI=1S/Ir

InchiKey:

GKOZUEZYRPOHIO-UHFFFAOYSA-N

Formula:

Ir

SMILES:

[Ir]

Mol. weight [g/mol]:

192.22

CAS:

7439-88-5

## Physical Properties

Property code	Value	Unit	Source
ea	1.56 ± 0.00	eV	NIST Webbook
ea	1.57 ± 0.01	eV	NIST Webbook
ie	9.10	eV	NIST Webbook
ie	9.10	eV	NIST Webbook
ie	8.87 ± 0.05	eV	NIST Webbook
ie	8.80 ± 0.70	eV	NIST Webbook
ie	9.10 ± 0.10	eV	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
srf	2.29	N/m	2373.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.28	N/m	2423.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods

srf	2.27	N/m	2473.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.26	N/m	2523.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.25	N/m	2573.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.25	N/m	2623.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.24	N/m	2673.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.23	N/m	2723.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
srf	2.22	N/m	2773.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods

srf	2.21	N/m	2833.00	Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
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## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.01687e+01
Coeff. B	-7.12296e+04
Coeff. C	-8.24700e+01
Temperature range (K), min.	2713.15
Temperature range (K), max.	4659.15

## Sources

The Yaws Handbook of Vapor Pressure: Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods:	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
	<a href="https://www.doi.org/10.1007/s10765-005-5585-3">https://www.doi.org/10.1007/s10765-005-5585-3</a>
	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7439885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7439885&amp;Units=SI</a>

## Legend

ea:	Electron affinity
ie:	Ionization energy
pvap:	Vapor pressure
srf:	Surface Tension

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