

Iridium

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/Ir

GKOZUEZYRPOHIO-UHFFFAOYSA-N

Ir

[Ir]

192.22

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

Thermophysical Property Measurements of Liquid and Supercooled Iridium by Containerless Methods
 The Yaws Handbook of Vapor Pressure
 NIST Webbook:

<https://www.doi.org/10.1007/s10765-005-5585-3>

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7439885&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Legend

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

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