

zinc oxide

Inchi: InChI=1S/O.Zn
InchiKey: XLOMVQKBTHCTTD-UHFFFAOYSA-N
Formula: OZn
SMILES: O=[Zn]
Mol. weight [g/mol]: 81.38
CAS: 1314-13-2

Physical Properties

Property code	Value	Unit	Source
ea	2.08 ± 0.02	eV	NIST Webbook
ea	2.09 ± 0.01	eV	NIST Webbook
ea	2.09 ± 0.01	eV	NIST Webbook
hfs	-350.46 ± 0.27	kJ/mol	NIST Webbook
ss	43.65 ± 0.40	J/molxK	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.09643e+01
Coeff. B	-3.63379e+04
Temperature range (K), min.	1773.10
Temperature range (K), max.	2223.10

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1314132&Units=SI>

The Yaws Handbook of Vapor Pressure: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Legend

ea:	Electron affinity
hfs:	Solid phase enthalpy of formation at standard conditions
pvap:	Vapor pressure
ss:	Solid phase molar entropy at standard conditions

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