

strontium oxide

Other names:	Strontium monoxide
Inchi:	InChI=1S/O.Sr
InchiKey:	UFQXGXDIJMBKTC-UHFFFAOYSA-N
Formula:	OSr
SMILES:	O=[Sr]
Mol. weight [g/mol]:	103.62
CAS:	1314-11-0

Physical Properties

Property code	Value	Unit	Source
affp	1209.00	kJ/mol	NIST Webbook
basg	1180.70	kJ/mol	NIST Webbook
ie	6.60 ± 0.20	eV	NIST Webbook
ie	6.60 ± 0.18	eV	NIST Webbook
ie	6.40 ± 0.25	eV	NIST Webbook
ie	7.00 ± 0.20	eV	NIST Webbook
ie	7.00 ± 1.00	eV	NIST Webbook
ie	6.10	eV	NIST Webbook
ie	6.91 ± 0.02	eV	NIST Webbook
ie	6.60 ± 0.05	eV	NIST Webbook
ie	7.00 ± 0.15	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.52876e+01
Coeff. B	-2.18730e+04
Coeff. C	-1.07667e+03
Temperature range (K), min.	2023.15
Temperature range (K), max.	2973.15

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=C1314110&Units=SI>

Legend

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

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<https://www.chemeo.com/cid/45-014-6/strontium-oxide.pdf>

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