

scandium

Inchi: InChI=1S/Sc
InchiKey: SIXSYDAISGFNSX-UHFFFAOYSA-N
Formula: Sc
SMILES: [Sc]
Mol. weight [g/mol]: 44.96
CAS: 7440-20-2

Physical Properties

Property code	Value	Unit	Source
affp	914.00	kJ/mol	NIST Webbook
basg	892.00	kJ/mol	NIST Webbook
ea	0.19 ± 0.02	eV	NIST Webbook
ie	6.56 ± 0.00	eV	NIST Webbook
ie	6.56	eV	NIST Webbook
ie	6.70 ± 0.50	eV	NIST Webbook
ie	6.70 ± 0.50	eV	NIST Webbook
ie	6.54	eV	NIST Webbook
ie	6.56 ± 0.00	eV	NIST Webbook
ie	6.56	eV	NIST Webbook
ie	6.56	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.57759e+01
Coeff. B	-3.21470e+04
Coeff. C	-2.27970e+02
Temperature range (K), min.	1573.15
Temperature range (K), max.	3473.15

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440202&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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