vanadium

Inchi: InChI=1S/V
InchiKey: LEONUFNNVUYDNQ-UHFFFAOYSA-N
Formula: V
SMILES: [V]
Mol. weight [g/mol]: 50.94
CAS: 7440-62-2

Physical Properties

Property code	Value	Unit	Source
affp	859.40	kJ/mol	NIST Webbook
basg	836.80	kJ/mol	NIST Webbook
ea	0.53 ± 0.01	eV	NIST Webbook
ie	6.74	eV	NIST Webbook
ie	6.75	eV	NIST Webbook
ie	6.74	eV	NIST Webbook
ie	6.75 ± 0.00	eV	NIST Webbook
ie	6.83	eV	NIST Webbook
ie	7.50	eV	NIST Webbook
ie	7.00 ± 1.00	eV	NIST Webbook
ie	6.74	eV	NIST Webbook
ie	6.75 ± 0.00	eV	NIST Webbook
ie	6.74 ± 0.00	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.91227e+01
Coeff. B	-5.13547e+04
Coeff. C	-1.39460e+02
Temperature range (K), min.	2101.15
Temperature range (K), max.	3680.00

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440622&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
KDB:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1966

Legend

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