beryllium

Inchi: InChI=1S/Be
InchiKey: ATBAMAFKBVZNFJ-UHFFFAOYSA-N
Formula: Be
SMILES: [Be]
Mol. weight [g/mol]: 9.01
CAS: 7440-41-7

Physical Properties

Property code	Value	Unit	Source
hf	324.00 ± 5.00	kJ/mol	NIST Webbook
ie	9.32	eV	NIST Webbook
ie	9.32	eV	NIST Webbook
ie	9.32	eV	NIST Webbook
ie	9.20 ± 1.00	eV	NIST Webbook
ie	9.32	eV	NIST Webbook
ie	9.40 ± 0.20	eV	NIST Webbook
sgb	136.28 ± 0.00	J/mol×K	NIST Webbook
ss	9.50 ± 0.08	J/mol×K	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.65990e+01
Coeff. B	-3.15376e+04
Coeff. C	-1.24630e+02
Temperature range (K), min.	1097.00
Temperature range (K), max.	2757.00

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440417&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
pvap:	Vapor pressure
sgb:	Molar entropy at standard conditions (1 bar)
ss:	Solid phase molar entropy at standard conditions