

neptunium

Inchi:	InChI=1S/Np
InchiKey:	LFNLGNPSGWYGGD-UHFFFAOYSA-N
Formula:	Np
SMILES:	[Np]
Mol. weight [g/mol]:	237.00
CAS:	7439-99-8

Physical Properties

Property code	Value	Unit	Source
ie	6.27 ± 0.00	eV	NIST Webbook
ie	6.27 ± 0.00	eV	NIST Webbook
ie	6.27	eV	NIST Webbook
ie	6.27 ± 0.00	eV	NIST Webbook
ie	6.10 ± 0.10	eV	NIST Webbook
ie	6.19 ± 0.12	eV	NIST Webbook
ie	6.20 ± 0.12	eV	NIST Webbook
ie	6.16 ± 0.06	eV	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.61843e+01
Coeff. B	-5.06642e+04
Temperature range (K), min.	2000.00
Temperature range (K), max.	2500.00

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7439998&Units=SI>

The Yaws Handbook of Vapor
Pressure:
Mass spectrometric study of the
vaporization behaviour of
alpha-Na₂NpO₄: Thermodynamic
investigation of the enthalpy of
formation:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<https://www.doi.org/10.1016/j.jct.2012.11.034>

Legend

ie: Ionization energy

pvap: Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/50-461-4/neptunium.pdf>

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