

Tungsten hexafluoride

Other names:	Tungsten fluoride Tungsten fluoride (WF6) Tungsten fluoride (WF6), (OC-6-11)- Tungsten(VI) fluoride UN 2196 WF6
Inchi:	InChI=1S/6FH.W/h6*1H;/q;;;;;;;;;+6/p-6
InchiKey:	NXHILIEUBEPD-UHFFFAOYSA-H
Formula:	F6W
SMILES:	F[W](F)(F)(F)(F)F
Mol. weight [g/mol]:	297.83
CAS:	7783-82-6

Physical Properties

Property code	Value	Unit	Source
ea	3.36 ± 0.20	eV	NIST Webbook
ea	3.50 ± 0.10	eV	NIST Webbook
ea	5.10 ± 0.50	eV	NIST Webbook
ea	3.70 ± 0.20	eV	NIST Webbook
ea	4.90 ± 0.40	eV	NIST Webbook
ea	2.74	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	25.80	kJ/mol	316.50	NIST Webbook

Correlations

Information	Value
Property code	pvap

Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.42667e+01
Coeff. B	-2.09011e+03
Coeff. C	-7.36200e+01
Temperature range (K), min.	201.55
Temperature range (K), max.	290.25

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783826&Units=SI>

The Yaws Handbook of Vapor Pressure:

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

Legend

ea: Electron affinity
hvapt: Enthalpy of vaporization at a given temperature
pvap: Vapor pressure

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