molybdenum

 Inchi:
 InChI=1S/Mo

 InchiKey:
 ZOKXTWBITQBERF-UHFFFAOYSA-N

 Formula:
 Mo

 SMILES:
 [Mo]

 Mol. weight [g/mol]:
 95.96

 CAS:
 7439-98-7

Physical Properties

Property code	Value	Unit	Source
ea	0.75 ± 0.00	eV	NIST Webbook
ea	0.75 ± 0.00	eV	NIST Webbook
ea	0.75 ± 0.00	eV	NIST Webbook
ea	0.75 ± 0.01	eV	NIST Webbook
ie	7.09 ± 0.00	eV	NIST Webbook
ie	7.10	eV	NIST Webbook
ie	7.10	eV	NIST Webbook
ie	7.09	eV	NIST Webbook
ie	7.09 ± 0.00	eV	NIST Webbook
ie	7.22 ± 0.06	eV	NIST Webbook
ie	7.00 ± 0.30	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
dvisc	0.0040000	Paxs	3213.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation
dvisc	0.0067000	Paxs	2573.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation

dvisc	0.0066000	Paxs	2600.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0062000	Paxs	2650.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0059000	Paxs	2700.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0057000	Paxs	2750.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0054000	Paxs	2800.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0052000	Paxs	2850.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0050000	Paxs	2896.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0050000	Paxs	2900.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0048000	Paxs	2950.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0046000	Paxs	3000.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	

dvisc	0.0045000	Paxs	3050.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0043000	Pa×s	3100.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
dvisc	0.0042000	Pa×s	3150.00	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation	
rhos	9999.00	kg/m3	298.00	Investigation of thermophysical properties of thin-layered paint	

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.79009e+01
Coeff. B	-6.20389e+04
Coeff. C	-2.41470e+02
Temperature range (K), min.	2673.15
Temperature range (K), max.	5223.15

Sources

A calorimetric and thermodynamic investigation of A2[(UO2)2(MoO4)O2] comptants domplar = ritial pres and comptants domplar = ritial pres a A calorimetric and thermodynamic

https://www.doi.org/10.1016/j.jct.2015.06.028 https://www.doi.org/10.1016/j.tca.2018.01.022

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

https://www.doi.org/10.1016/j.jct.2019.105886

http://webbook.nist.gov/cgi/cbook.cgi?ID=C7439987&Units=SI

Thermodynamic properties and behaviour of A2[(UO2)(MoO4)2] compounds with A = Li, Na, K, Rb, and Cs:

Legend

dvisc:	Dynamic viscosity
ea:	Electron affinity
ie:	Ionization energy
pvap:	Vapor pressure
rhos:	Solid Density

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