Mendelevium *Md*

General Information

Discovery

Mendelevium was discovered by A. Ghiorso and co-workers in 1955 in California, USA.

Appearance

Mendelevium is a radioactive metal. Only a few atoms have ever been made so its appearance is unknown.

Source

Mendelevium is made by bombarding einsteinium with alpha-particles.

Uses

Mendelevium is used only for research.

Biological Role

Mendelevium has no known biological role. It is toxic due to its radioactivity.

Physical Information

Atomic Number	101
Relative Atomic Mass (^{12}C=12.000)	Not available
Melting Point/K	Not available
Boiling Point/K	Not available
Density/kg m^{-3}	Not available
Ground State Electron Configuration	$[Rn]5f^{13}7s^{2}$
Electron Affinity (M-M^{-})/kJ mol^{-1}	Not available

Key Isotopes

Nuclide	^{258}Md
Atomic mass	
Natural abundance	0%
Half-life	54 days

Ionisation Energies/kJ mol^{-1}

M	- M^{+}	635
M^{+}	- M^{2+}	
M^{2+}	- M^{3+}	
M^{3+}	- M^{4+}	
M^{4+}	- M^{5+}	
M^{5+}	- M^{6+}	
M^{6+}	- M^{7+}	
M^{7+}	- M^{8+}	
M^{8+}	- M^{9+}	
M^{9+}	- M^{10+}	

Other Information

Enthalpy of Fusion/kJ mol^{-1}	Not available
Enthalpy of Vaporisation/kJ mol^{-1}	Not available

Oxidation States

Main	Md^{+3}
Others	Md^{+2}