

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 ($^{12}\text{C}=12.000$)	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
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Enthalpy of Vaporisation/kJ mol ⁻¹	Not available
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Oxidation States

Main	Md ^{III}
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Others	Md ^{II}
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Covalent Bonds/kJ mol⁻¹

Not applicable
