

Hydrogen cyanide is highly toxic. Molecules of hydrogen cyanide and molecules of nitrogen gas both have 14 electrons.

(a)

	Structure	Boiling point (°C)
Hydrogen cyanide	$\text{H}-\text{C}\equiv\text{N}$	27
Nitrogen	$\text{N}\equiv\text{N}$	-196

Explain why the boiling point of hydrogen cyanide is much higher than the boiling point of nitrogen.

In your answer you should mention the intermolecular forces involved and how they arise.

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