

As

Properties: Arsenic, with the element symbol As, is a non-metallic element existing in three allotropes: gray arsenic, black arsenic, and yellow arsenic.

Uses: semiconductor doping source.

· Identifier

Chemical Formula	As
CAS No.	7440-38-2
EINECS No.	231-148-6

· Physical and chemical properties

Molecular weight	77.95 g/mol	Flash point	/	Reactivity	Less reactive
Appearance	Silvery-gray shiny lumpy solid	Melting point	817°C	Solubility	Insoluble in water. Soluble in nitric acid, Hot alkali solution
Density	5.73 g/cm ³	Boiling point	613°C	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	5N/ppbw	6N/ppbw	7N/ppbw	Impurities	5N/ppbw	6N/ppbw	7N/ppbw
Na	≤500	≤100	≤10	Ni	≤100	≤10	≤5
Mg	≤200	≤50	≤5	Cu	≤500	≤10	≤5
Al	≤500	≤50	≤5	Zn	≤500	≤50	≤5
Si	≤500	/	≤20	Se	≤100	/	≤5
P	≤500	/	≤5	Sb	≤500	≤50	≤10
S	≤100	/	≤10	Ag	≤100	≤10	≤5
K	≤500	≤50	≤10	Pb	≤500	≤30	≤5
Ca	≤500	≤50	≤10	Bi	≤500	≤50	≤5
Cr	≤500	≤50	≤5	/	/	/	/
Fe	≤500	≤50	≤10	Combined total impurities	≤10000	≤1000	≤100



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