

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

Project	Unit	Specification	Project	Unit	Specification
Li	ppbw	≤1	Zn	ppbw	≤4
Be	ppbw	≤1	Ga	ppbw	≤1
B	ppbw	≤1	Ge	ppbw	≤5
Na	ppbw	≤1	Se	ppbw	≤5
Mg	ppbw	≤1	Mo	ppbw	≤5
Al	ppbw	≤1	Ag	ppbw	≤5
Si	ppbw	≤10	Cd	ppbw	≤4
P	ppbw	≤1	Sn	ppbw	≤2
S	ppbw	≤3	Sb	ppbw	≤2
K	ppbw	≤10	Te	ppbw	≤3
Ca	ppbw	≤1	W	ppbw	≤2
Ti	ppbw	≤5	Au	ppbw	≤10
V	ppbw	≤1	Hg	ppbw	≤3
Cr	ppbw	≤1	Tl	ppbw	≤1
Mn	ppbw	≤1	Pb	ppbw	≤1
Fe	ppbw	≤5	Bi	ppbw	≤1
Ni	ppbw	≤1	Th	ppbw	≤1
Co	ppbw	≤1	U	ppbw	≤1
Cu	ppbw	≤2	Combined total impurities	ppbw	≤50

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