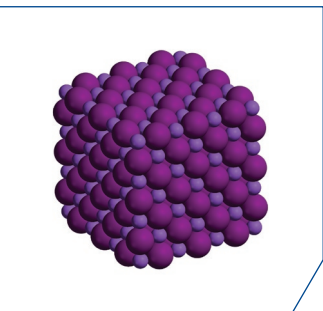


NaI
CAS # 7681-82-5

Sodium Iodide

CRYSTAL GROWTH GRADE

Representation of Structure



Sodium Iodide (NaI), grown by the Bridgman-Stockbarger method, is the most popular activated scintillation material in the world. First introduced by Robert Hofstadter in 1948, thallium doped NaI crystals boast large scintillation yields from this cost effective starting material. NaI(Tl) is commonly utilized in medical and safety systems for the detection of X-rays and gamma rays.

NaI from SAFC Hitech™ is processed to 99.999% trace metals purity and is available as a crystalline powder or anhydrous beads. Material is packaged in 10 KG HDPE bottles or in 30 KG drums. Custom packaging in non-standard sizes or in customer furnished containers can be accommodated.

In addition to supplying high quality raw material, SAFC Hitech can custom blend NaI with an activator halide (e.g., Tl, Cs) and will set up a program to reprocess any off-cut doped material to reduce environmental impact and improve cost of ownership.

Ordering Information

Product	Code
Crystalline Powder	HT-NAI100XG-CONF
Anhydrous Beads	HT-NAI200XG-CONF

Physical Properties

Formula Weight:	149.89 g/mol
Boiling Point:	1304°C
Melting Point:	661°C
Crystal Density:	3.67 g/cc
Heat Capacity:	0.347 J/gK @ (T)
Solubility:	184 g/100 mL H ₂ O

Trace Metals Specifications 99.999%

Major Metals Impurities	ICP-MS (ppm)
Al	<0.5
Ba	<0.5
Ca	<0.5
Cs	<3.0
Fe	<0.5
K	<0.8
Mg	<0.5
Tl	<1.0
Zn	<0.5

Storage

NaI is hygroscopic and should be stored in air-tight containers prior to use to preserve material integrity.