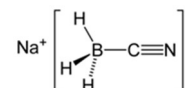




TECHNICAL DATA SHEET

Product name: Sodium cyanoborohydride



Specifications

Parameters	Specifications	Typical results
Appearance	White to Off-white Powder	white Powder
Assay by Titration with Na ₂ S ₂ O ₃	95%-101%	98.6%
Melting Point	242 °C (decomposes)	Complies
Solubility	Soluble in water	Complies

Stability and storage:

It is generally stable under normal conditions, particularly in the absence of moisture and air, but it can be sensitive to hydrolysis.

Sodium cyanoborohydride should be stored in a cool, dry, and well-ventilated area, away from heat, ignition sources, and incompatible substances like water and acids. It's crucial to keep it in a tightly closed container, preferably under an inert atmosphere like nitrogen, due to its hygroscopic nature.

Temperature:

Store at room temperature, ideally in a cool and dark place, below 15°C,

Application Area:

Sodium cyanoborohydride is a mild reducing agent, it gives good chemo selectivity. It is generally used for the reduction of imines.

Aromatic ketones and aldehydes can be reductively deoxygenated using sodium cyanoborohydride

General information

CAS No.	: 25895-60-7
IUPAC Name	: Sodium cyanoboranuide
Synonyms	: Sodium cyanotrihydridoborate
EC No.	: 247-317-2

Physical/Chemical properties:

Molecular Formula	: Na[BH ₃ (CN)]
Molecular weight	: 62.84
Melting point	: 242 °C (decomposes)
Solubility	: Soluble in water
Physical state at 20°C	: Solid
Density	: 1.083 g/cm ³ (25°C)

Hazard classification & labelling:

Single Word : Warning

Pictogram :



Classification according to Regulation (EC) No 1272/2008 : H228, H300, H310, H314, H330, H410

Precautionary statement(s) : P210, P260, P264, P273, P280, P284