



SODIUM BOROHYDRIDE POWDER

- Formula : NaBH_4
- Properties :
 - soluble in water
 - able to reduce 27 functional groups such as aldehydes, ketones, peroxides, hydroperoxides, Schiff bases and cyclic quaternary iodides.
 - under specific conditions (through the use of Lewis acids such as aluminum chloride or solvents such as DMSO or acetic acid) its reducing power can be enhanced so that it is comparable to lithium aluminum hydride.
- Specifications :

(1) Appearance	:	white crystalline powder
(2) Assay	:	$\geq 98\%$
(3) Water	:	$\leq 0.1\%$
- Typical Character:
- | | |
|------------------------|---|
| Molecular Weight | 37.8 |
| Specific Gravity, 25°C | 1.074 |
| Configuration | White Crystalline Solid |
| Melting Point | Thawless over 400°C & resolve immediately |
- Typical Solubility (g/100g resolver @25°C):
- | | |
|---------------------------------|-------|
| Water | 55.0 |
| Liquid Ammonia | 104.0 |
| Ethanol (deferred reaction) | 4.0 |
| Diethylene Glycol Dimethylether | 5.5 |
| Dimethyl Acetamid | 14.0 |
| Isopropylamine | 6.0 |
- Usage :
 - removal of traces carbonyl and peroxide impurities, which can cause colour, odor and instability problems in basic intermediate or finished chemicals.
 - in pharmaceutical and fine chemical field for the conversion of aldehydes and ketones to the corresponding alcohol.
 - for pollution control – to remove and recover heavy metals from plant effluents.
 - for precious metal recovery – silver, gold, platinum, palladium and other precious metals can be easily and economically recovered in metallic form, ready for reuse with NaBH_4 .
 - for silver recovery from photographic solutions with VenSil.
 - for the deposition of metallic coatings.
 - for hydrogen generation.
 - as a polymerization catalyst, as a part of a catalyst system, or for catalyst recovery.
 - as a blowing agent for various rubber and plastic foam.
- Packing :
 - in 30Kgs-iron drums lined poly plastic pocket or as per request.
- Precautions :
 - kept dry, away from water, fire, acid and oxidizing agent.
 - use extinguisher 1211, sodium carbonate and dried sand when flaming.