

# Sodium borohydride, powder, EssentQ®

## Identification

NaBH<sub>4</sub>  
M = 37,83 g/mol  
CAS [16940-66-2]  
EC number: 241-004-4  
Taric code: 2850 00 20

## Synonyms

Sodium tetrahydroborate

## Applications

reducing agent, synthesis of organic products.

## Specifications

assay (iodometric).....min. 98 %

## Physical data

- Spec. Density: 1,07 g/cm<sup>3</sup>
- Bulk density: 350 - 500 kg/m<sup>3</sup>
- Solub. in water: (25 °C): 550 g/l (decomposes slowly)
- Melting point: ~ 400 °C (decomposes slowly)
- Flash point: 69 °C
- Ignition temperature: ~ 220 °C
- Expl. limit (lower): 3,02 Vol%
- pH(10 g/l H<sub>2</sub>O, 20 °C) ~ 11
- Hygroscopic

## Safety - GHS

Signal Word: Danger

### Hazard Statements:

H260: In contact with water releases flammable gases which may ignite spontaneously.  
H301: Toxic if swallowed.  
H314: Causes severe skin burns and eye damage.



### Precautionary Statements:

P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

## Transport/storage

- ADR: 4.3 W2 I • UN 1426 • SODIUM BOROHYDRIDE
- IMDG: 4.3 I • UN 1426 • SODIUM BOROHYDRIDE
- IATA/ICAO: 4.3 I • UN 1426 • SODIUM BOROHYDRIDE
- PAX: F
- CAO: 412
- 10°C - 30°C