



SICOBOR min. 20.5% B (67% B₂O₃), Soluble Boron

DISODIUM OCTOBORATE TETRAHYDRATE (Na₂B₈O₁₃·4H₂O)

- Origin: Argentina -

revised 16/03/2018

1/ GENERAL INFORMATION

Chemical name: Disodium Octaborate Tetrahydrate (DOT)
 Trade name: SICOBOR, Sodium Octaborate Tetrahydrate
 Chemical formula: Na₂B₈O₁₃·4H₂O
 CAS number: 12280-03-4
 EC number: 234-541-0
 Description: White fine powder, without foreign matters

2/ CHEMICAL AND PHYSICAL PROPERTIES

*** CHEMICAL COMPOSITION & ANALYSIS**

- Parameter

	<u>Typical values</u>	<u>Guaranteed values</u>
B ₂ O ₃	67.00 %	66.01 % min.
Na ₂ O	14.73 %	-
H ₂ O (by difference)	18.27 %	-
B	20.80 - 21 %	20.50 % min.

- Solubility

<u>Temperature °C</u>	<u>Weight %</u>
0	2.4
10	4.4
20	9.7
30	21.8
40	27.3
50	34.3

- pH

<u>Solution % (w/w)</u>	<u>pH at 20° C</u>
1	8.5
2	8.4
3	8.3
5	8.0
10	7.6

*** PHYSICAL DATA**

- Particle size distribution

<u>Micron</u>	<u>% retained typical</u>	<u>% retained guaranteed</u>
300	0.2	0.5 max.
88	8	20 max.

- Bulk density

kg/dm³ 0.64 +/- 0.04

3/ PACKING

in 25 kg pp bags with label, 18.5 MT/20' fcl (without pallets) or 26 MT/40' fcl (without pallets)

4/ STORAGE RECOMMENDATIONS

The product maintains its chemical properties for over three years provided that it is stocked in a fresh and dry place in order to avoid caking.

5/ USES/APPLICATIONS

See the Safety Data Sheet, section 1.2, available on request.