

pH In Water @ 20°C (68°F)

<u>Percent by weight</u>	<u>pH</u>
0.1	9.25
0.5	9.24
1.0	9.24
2.0	9.25
3.0	9.29
3.74 (saturation)	9.30

SOLUBILITY IN OTHER SOLVENTS

	<u>°C (°F)</u>	<u>Percent by weight</u>
Ethylene glycol	25(77)	36.58
Diethylene glycol	25(77)	14.91
Glycerol, C.P.	25(77)	43.97
Glycerol, 99%	20(68)	44.97
Ethyl alcohol, 50 vol %	15.5(59.9)	0.29

MELTING POINT (not specified)

When heated in a closed tube, SODIUM BORATE begins to melt in its own water of crystallization at 128°C (262°F) and is completely fluid at 140°C. Heated in the open, SODIUM BORATE loses its water of crystallization to complete hydration and fusion at 742.5°C (1367°F)

SPECIFIC GRAVITY @ 25°C

1.815

SPECIFIC HEAT @ 25°C

96.3 cal/deg-mol

HEAT OF SOLUTION (Absorbed) @ 52°C

13.03 Kcal/g-mol or -51.71 Btu

HEAT OF HYDRATION

-21.4 Kcal/g-mol or -84.9 Btu

OTHER INFORMATION

BOROSSET V contains only one-half of decahydrate borax. Except for the difference in water of hydration, BOROSSET V is chemically identical to decahydrate borax and can be directly substituted for borax in fusion or solution applications. One weight unit of Borax is equivalent to 0.764 weight units of BOROSSET V. At equivalent concentrations of the active ingredient, sodium tetraborate, the properties of solution or fusion products are chemically and physically identical. Solution or fusion products are chemically and physically identical. BOROSSET V, a more concentrated form of borax can result in saving in transportation, handling and storage. 100 units of decahydrate borax can be replaced by 76.4 units of BOROSSET V, freight and other costs can be reduced by approximately 25 percent.

SECTION 4- PACKAGING AND HANDLING

Granular: 50 pound (25kg) and 100 pound (50kg) multi plastic lined paper bags palletized and stretch wrapped. Fifty pound bags per pallet only. It is also available in 2000 lb. semi-bulk bags (1000kg). Bulk is to be taken by trucks and hopper cars.

Powder: 50 pound multi wall paper bags.

Information concerning the handling and use of this product is provided in a material safety data sheet (MSDS). This MSDS must be fully read and understood prior to any exposure, handling, or use of the product.

Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any laws or regulations. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by use.

Replaces: January 2008