

TIP 0607-14

OLD TIP NO. – 004-12
ISSUED – 1979
REAFFIRMED – 1987
REAFFIRMED – 1992
REVISED – 1998
REAFFIRMED – 2002
© 2002 TAPPI

The information and data contained in this document were prepared by a technical committee of the Association. The committee and the Association assume no liability or responsibility in connection with the use of such information or data, including but not limited to any liability or responsibility under patent, copyright, or trade secret laws. The user is responsible for determining that this document is the most recent edition published.

Density of aqueous sodium carbonate solution

Scope

The concentration of sodium carbonate solutions can be estimated by measurement of solution density. A graph is present giving the relationship of sodium carbonate solution density to concentration over the range of 0 to 22% sodium carbonate in water at five temperatures from 20°C to 100°C.

Safety precautions

No safety precautions are required. This procedure is for data conversion only.

Content

The relationship between solution density and sodium carbonate concentration is presented in the figure.

Keywords

Sodium carbonate, Density, Temperature

Additional information

Effective date of issue: August 30, 2002.

Working group members:

Paul W. Braun – Chairman, Domtar Industries
Douglas W. Wynn, MeadWestvaco Corporation
Patrick J. McKeough, Weyerhaeuser

References

1. National Research Council, International Critical Tables, McGraw-Hill, New York, 1929.
2. Taylor, C. E., Ph.D. Thesis, The Institute of Paper Chemistry, Appleton, WI (1954).
3. Extrapolated data.
4. Han, S. T., Davis, J.L., Kesler, R. B., and Couceiro, R. S., TAPPI **38**(9): 527 (1955).

TIP Category: Data and Calculations



Documents

Document Sharing Hub

