



武汉有机实业有限公司

WUHAN YOUJI INDUSTRIES CO., LTD.

(AN ISO-9001 CERTIFICATED COMPANY)

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Technical Data Sheet

Sodium Benzoate

T D S

Name: Sodium Benzoate

Formula: C₇H₅NaO₂

Molecular weight: 144.12

CAS No.: 532-32-1

EC No.: 208-534-8

Grades available: CP, BP, NF/FCC, GB1902-2005, E211, Q/WYJ004

Forms available: White powder, chips or crystalline

Uses: Sodium benzoate is a highly effective preservative. It is widely used for preserving foods, beverages(especially diet soft drinks), pharmaceuticals, toiletries, adhesives, pastes, polishes, cleaners, and it is also used to preserve low alcohol(<15%) beverages as well as non-alcoholic beer.

Applications:

It is used as a food and beverage preservative. Sodium benzoate is most suitable for use as an antimicrobial agent in foods and beverages which naturally are in the PH range below 4.5, or can be brought into the range by addition of a water soluble acidulant. Sodium benzoate is not recommended as a preservative at PH ranges higher than 4.5. Sodium benzoate ,NF/FCC is widely used in carbonated and still beverages , syrups, cider, salted margarine, olives, sauces, relishes, jellies, jams, preserves, pastry and pie fillings, low fat salad dressing, fruit salads, prepared salads, and in storage of vegetables . Some generalized applications are described in the following examples. Keep in mind that both federal and state regulations may apply to specific applications. These regulations should be reviewed and verified as applicable or non-applicable for each specific use application.

It is also a standard preservative in carbonated beverages. Typically 0.03 to 0.08% is used for the finished products. Non-carbonated beverages normally require somewhat higher concentrations of 0.05-0.1% sodium benzoate in the finished products.

Sodium benzoate is further used as a preservative in cider(as low as 0.04%) , margarine(up to 0.1% which require for low salt or salt free margarine), syrups(at levels of about 0.1% at pH values below 4.5, for others pH above 4.5, a conjunction with other preservatives that are more effective in that pH range should be used.), fruits, fruit juices and fruit salads(0.05 to 0.1%) it is also used as preservatives in pharmaceutical , toiletry and cosmetics .

Other applications include being used as corrosion inhibition in low concentration. It



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has been reported as corrosion inhibition for steel, zinc, copper, copper alloys, soldered joints, aluminum, and aluminum alloys. In some instances, wrapper protection has been unsuitable and the metal parts have been reported to be inhibited by dipping in solutions of sodium benzoate. As a liquid phase inhibitor, low concentrations of sodium benzoate have been reportedly used for corrosion control at a pH as low as 5.5, but the most effective inhibition appears to be in the pH range of 6 to 12.

Lastly, sodium benzoate also used as chemical intermediates, catalysts, and as nucleating agents for polyolefin manufacture.

Typical physical properties: See the corresponding MSDS.

Methods of analysis: Acid-base titration or HPLC

Storage conditions: Sodium benzoate is slightly hygroscopic and should be stored in sealed containers. Exposure to conditions of high humidity and elevated temperatures should be avoided for general storage. Avoid accumulation of static electricity. Avoid oxidants, avoid contacting with eyes. Avoid dust leakage.

Package: Plastic bags or complex plastic bag or coating bag, 25Kg/Bag; or as clients' requirements.

Notes: The information presented herein is believed to be true and accurate. However, all suggestions and recommendations are made without guarantee. Our technical personnel are always ready to respond to inquiries regarding the safe handling of any of our products.

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Write and edited by: Chen Le