

TECHNICAL BULLETIN



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DYE BRILLIANT BLUE

FOOD DYE

MATERIAL & FUNCTION

Brilliant Blue Dye is also called FD&C Blue No.1, CI Acid blue 9, disodium salt; CI 42090 with sodium chloride as diluent, F, CI Food Blue 2, D&C Blue No. 4, It is a synthetic dye derived from coal tar. It is usually a disodium salt. The chemical name is: Benzenemethanaminium, N-ethyl-N-[4-[[4-[ethyl[(3-sulfophenyl) methyl]amino]phenyl](2-sulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo-, hydroxide, inner salt, disodium salt. CAS Number is 3844-45-9. The chemical formation is C₃₇H₃₄N₂Na₂O₉S₃. The diammonium salt has CAS number [2650-18-2]. Calcium and potassium salts are also permitted. It can also appear as an aluminium lake.

It is accepted in most countries including the EU as a food dye. The dye is poorly absorbed from the gastro-intestinal tract and 95% of the absorbed dye can be found in the faeces. It can be combined with tartrazine (E102) to produce various shades of green.

PROPERTIES

Absorbance maximum is about 630 nm and E1% 1637.

APPLICATIONS

A 0.001% solution is a practical level for use in industrial UV instruments
A 1% solution is a practical level for addition of a concentrate to formulated products where colour is the only requirement

USES

As a blue color, Brilliant Blue FCF is often found in ice cream, tinned processed peas, dairy products, sweets[1] and drinks. It is also used in soaps, shampoos, and other hygiene and cosmetics applications. In soil science, Brilliant Blue is applied in tracing studies to visualize infiltration and water distribution in the soil. It is used in blue mouthwashes.

Blue dye No. 1 has been shown to block spinal nerve inflammation in rats.. It is thought that the dye may block a key ATP receptor in spinal nerve cells, preventing metabolic stress and associated cell death. It may cause asthma in some individuals

DIRECTIONS FOR USE

Industrial use: a 1% solution is readily obtained by mixing in cold water. The powder is very mobile – use a dust mask, eye goggles and protective clothing.

CAUTION

Avoid contact with skin and eyes and avoid breathing dust.

PACKAGING

Powder – 1, 5 kg containers. 1% solution – 5, 15L.

IMPORTANT NOTICE TO CUSTOMER

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***

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