

2-Bromo-2-nitro-1,3-propanediol [Bronopol]

SYNONYMS:

Bronopol;2-Bromo-2-nitropropane-1,3-diol;1,3-Propanediol, 2-bromo-2-nitro-2-Bromo-1-nitro-1,3-propanediol;2-Nitro-2-bromo-1,3-propanediol;3-Propanedio 1,2-bromo-2-nitro-1;beta-Bromo-beta-nitrotrimethyleneglycol;Bioban BNPD-40;

CAS No: 52-51-7

MOLECULAR FORMULA: C3H6BrNO4

PROPERTIES:

Appearance - Bronopol is supplied as crystals or crystalline powder, which may vary from white to pale yellow in color depending on the grade of material being offered.

Melting Point: As a pure material, Bronopol has a melting point of about 130° C. However due to its polymorphic characteristics, Bronopol undergoes a lattice rearrangement at 100 to 105° C and this can often be wrongly interpreted as the melting point. At temperatures above 140° C Bronopl will decompose exothermically releasing Hydrogen bromide and oxides of Nitrogen.

Solubility - Bronopol is readily soluble in water although the dissolution process is endothermic. Solutions containing up to 28% w/v are possible at ambient temperature. Bronopol is poorly soluble in non-polar solvents but shows a high affinity for polar organic solvents.

SPECIFICATION:

Appearance	White Crystalline
Powder Assay	99 % min
Melting Point	123 - 130°C
Moisture	0.5 % max

USAGE:

It is widely used in industrial circulating water, biocide, germicide, paper pulp, paint, plastic, timber-cooling circulating water and other industries. In addition, it can be used to prevent daily-used cosmetic products from moldly and corrosion.

PACKING

25Kgs net drum.