

## 1,3 Butylene Glycol

1,3 Butylene Glycol is a solvent and in general an alternative whenever Propylene Glycol is used with mostly superior properties both with regard to its technological properties and biological effects.

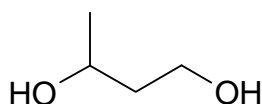
**CAS No. / EINECS** 107-88-0 / 203-529-7

**INCI/CTFA** Butylene Glycol

**CN Code** 2905 3920

### SPECIFICATION\*

#### Chemical structure



<b>Chemical formula</b>	C <sub>4</sub> H <sub>10</sub> O <sub>2</sub>	<b>Molecular weight</b>	90,1
<b>Appearance</b>	clear liquid		
<b>Color (JIS K 0071)</b>	max. 10		
<b>Specific gravity, 20/20°C (JIS K 0061)</b>	1,004 to 1,007		
<b>Water content (JIS K 0068)</b>	max. 0,5%		
<b>Distillation test I.B.P (JIS K 0066)</b>	min. 200°C		
<b>Distillation test D.P. (JIS K 0066)</b>	max. 215°C		
<b>Free acid, as acetic acid (JIS K 0070)</b>	max. 0,005%		
<b>Purity (JIS K 0114)</b>	min. 99,5%		



## Microbiological data

1,3 Butylene Glycol is a solvent with a purity of min 99,5% and therefore a microbiological growth is hardly possible. Butylene Glycol has an anti-microbial effect itself.

## Storage and packaging

- Expiry date  
in unopened original packaging and under adequate storage conditions minimum 12 month after date of analysis (stated on the CoA)
- Storage condition  
store in tight container at 5°C to 40°C
- Standard packaging  
200 kg iron drum/1000 kg IBC/20MT ISO-container

## REACH

1,3 Butylene Glycol has been registered (registration no.: 01-2119455875-25-0001). The final REACH registration considers the uses recommended by COLIPA.

## Formulating

1,3 Butylene Glycol is a highly effective solvent. It inhibits the drying out of cosmetics and prevents the crystallization of insoluble components. Butylene Glycol aids in solubilizing aqueous insoluble ingredients and stabilizes volatile compounds such as fragrances and fixing them in the cosmetic formulation.

1,3 Butylene Glycol contributes to the preservation of cosmetics against spoiling, it has a very good distribution coefficient and thus leads to better efficacy of preservatives mixed into formulation.

Butylene Glycol has an anti-microbial effect itself.

The recommended usage level of Butylene Glycol is 1,0% to 10,0%.

## Toxicological Data

The Expert Panel released the Final Report on the Safety Assessment of Butylene Glycol stating that it is safe as presently used in cosmetic products.

A CIR (cosmetic ingredient review) report is available.

Producer: KH Neochem Co.,Ltd., Japan

**KHNC**

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