



# TDS

(Technical data sheet)

BO-800



# BO-800

Certificated by REACH/HALAL

## General Information

Caprylyl glycol derived from a caprylic acid (component of mainly coconut oil), it plays a role as a preservative booster in all kinds, surfactant, moisturizer, humectant. Also it can be used for preservative instead of Paraben,

In terms of preservative efficacy, Caprylyl glycol is effective against bacteria, mainly serving as an antimicrobial effect with other ingredients. It is used in surfactant, preservative in bath products, cosmetic moisturizer, also great compatible with water, can play a role as emulsion stabilizer, have a smoothing effect in cosmetics.

Especially, it's known for being effective with other ingredients such as Honey, Aloe, Hyaluronic acid. But, it's really susceptible with temperature, solid at low temperature, it may cause high management in terms of storage.

B&B is producing high purity (99%) Caprylyl glycol through processing and refining facilities. It is a widely used cosmetic ingredient with multifunctional properties and is EWG green grade and first grade ingredient.

## Advantage

Enhanced Antimicrobial effect (above 1,2-Panetenediol/Hexanediol)

Moisturizer effect

Emulsifying formulation (it improves the spread ability)

Can be used without any PH restriction

Water-resistance

EWG 1 Grade

## Application

Preservatives of all types

Surfactant

Gel product

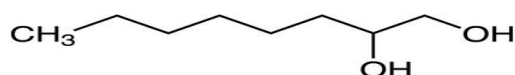
Cosmetic humectant

Water-resistance

## Chemical Information

MSDS Name	1,2-Octanediol
INCI Name	Caprylyl Glycol
Cas number/EC number	1117-86-8/214-254-7
Molecular Formula	$C_8H_{18}O_2$
Molecular Weight	146-23g/mol
B.P/M.P(°C)	243/38~40

## Chemical Structure



## Specification

### Test items

Appearance

### Limits

Colorless clear liquid  
(white soild at low temp)

### Method

Visual inspection

Odor

Odorless

Sensory evaluation

Purity

Not less than 99%

GC Chromatography

Moisture

Not more than 0.5%

Karl-Fischer

Refractive index

1.447~1.457

Refractometer

Heavy Metal

<20ppm

ICP(KTR,SGS)

## Safety notice

Eye irritation notice

Allergy/irritation effect may vary from person to person

When it's used at high concentration, skin irritation might be improved

## Recommended Dosage

0.5~1%

## Packing & Shelf Life

18kg open type drum & 2 years from manufacturing date

## MOQ

324kg with a pallet

## Storing method

About 30°C room temperature

## Reference

BEYOND ASIAN HUB. TOWARD GLOBAL WORLD

**KTR**  
KOREA TESTING & RESEARCH INSTITUTE

**TEST REPORT**

98, Goyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea      TEL 82-63-214-2960      FAX 82-63-214-2964

Report No : TK-2018-00429      Receipt Date : 2018.07.25.  
Representative : Jae Ho Son      Test Completion Date : 2018.08.07.  
Company name : BSB Co., Ltd.  
Address : 134-16, Sandan-ro, Gunsan-si, Jeollabuk-do, 54004, Korea  
Sample name : BO-800(1,2-Octanediol)

Test Results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Methanol	(v/v)%	-	Not detected	Notice No. 2017-114 of the Ministry of Food and Drug Safety.
1,4-Dioxane	µg/g	-	Not detected	Notice No. 2017-114 of the Ministry of Food and Drug Safety.
DEHP	µg/g	-	Not detected	Notice No. 2017-114 of the Ministry of Food and Drug Safety.
DBP	µg/g	-	Not detected	Notice No. 2017-114 of the Ministry of Food and Drug Safety.
BBP	µg/g	-	Not detected	Notice No. 2017-114 of the Ministry of Food and Drug Safety.

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- Usage of Report : QUALITY CONTROL

Note : 1. The test results of this test report are only limited in to the samples and sample names provided by the client and do not guarantee the quality of all products of the client. You Can check website (www.ktr.or.kr) or QR code to verify the authenticity of the certificate.  
2. This test report shall be used only within the purpose of its defined usage and shall not be used for public relation, advertisement and lawsuit.  
3. This test report is only valid when printed on KTR original report paper with hologram and when re-issued by KTR. The copy and the electronic file of the test report are only for reference.

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2018.08.07

**Korea Testing & Research Institute**

President *Byun, Jong-Ro*

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**KTR** KOREA TESTING & RESEARCH INSTITUTE KTR-CF-T09-F01-0207      M4210 X 287

<BO-800 non-noxious substance test's result>

## Company Detail

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### Reference Source

B&B data sheet