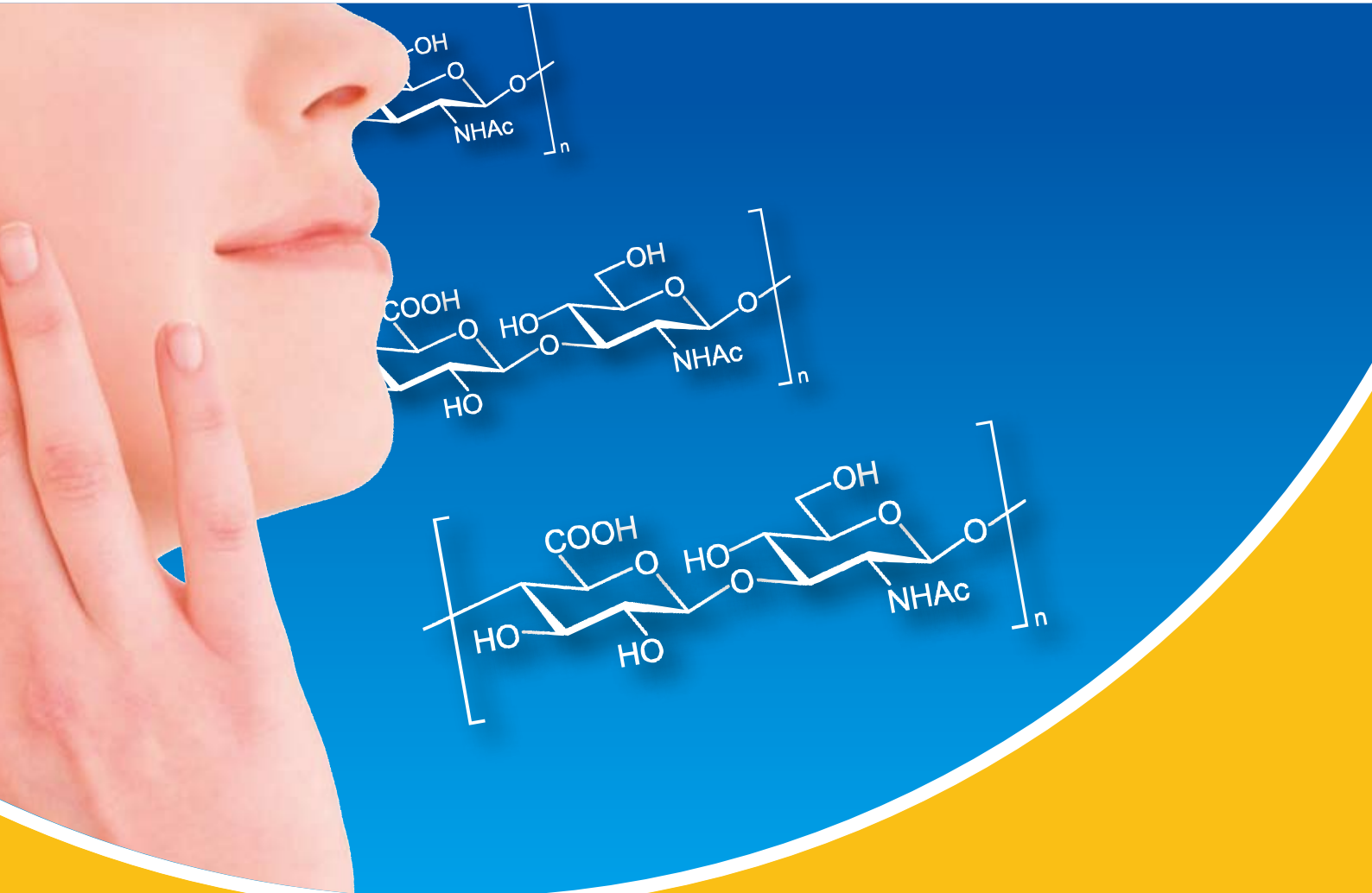


# Cosmetic Materials



Skin Moisturizers

Skin-Whitening Ingredients

Hair Dyeing

UV-absorber

Others

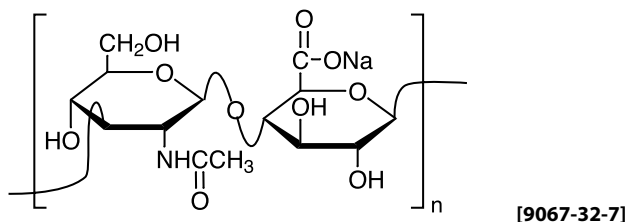
# Cosmetic Materials

In the never ending search to improve and retain their youthful appearance, more and more people are turning to cosmetic applications for their skin. In an effort to keep their skin healthy, as well as cover up blemishes and wrinkles, more

people are seeking cosmetic products which contain moisturizers, whitening agents, and sunscreens. Below are listed some high quality products available from us for use in cosmetics.

## Skin Moisturizers

### Sodium Hyaluronate



This product is extracted from cockscomb, followed by separation and purification, and then freeze-dried to give the final pure product. It is widely used in various cosmetics as a moisturizer, since it hydrates the skin due to its high water-holding capacity.

#### Z2045 Sodium Hyaluronate (Lyophilized) (Cockscomb)

Appearance	: white cotton like, tasteless, odorless
Nitrogen (N)	: 2.8 ~ 4.0%
Gluconic acid	: 43.0 ~ 51.0%
Identity test	: to pass test
pH	: 5.0 ~ 8.5
Heavy metals	: < 20ppm
Arsenic	: < 2ppm
Protein	: to pass test
Others acidic mucopolysaccharide	: to pass test
Loss on drying	: < 15.0%
Residue on ignition (sulfates)	: 15.0 ~ 20.0%

#### Z2035 Sodium Hyaluronate (Lyophilized) (Cockscomb)

Appearance	: white cotton like, tasteless, odorless
Nitrogen (N)	: 2.8 ~ 4.0%
Gluconic acid	: 37.0 ~ 43.0%
Identity test	: to pass test
pH	: 5.0 ~ 8.5
Heavy metals	: < 20ppm
Arsenic	: < 2ppm
Protein	: to pass test
Loss on drying	: < 15.0%
Residue on ignition (sulfates)	: 15.0 ~ 20.0%

#### Z2034 Sodium Hyaluronate (1% in Water) (Cockscomb)

Appearance	: colorless viscosity clear liquid
Sodium hyaluronate content	: 1.0 ~ 1.5%
Identity test	: to pass test
pH	: 5.0 ~ 7.5
Heavy metals	: < 20ppm
Arsenic	: < 2ppm
Evaporation residue	: 1.0 ~ 1.3%

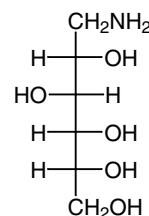
#### Z3377 Sodium Hyaluronate

(1% in Water) (resistant to Hyaluronidase)

#### Z2018 Sodium Hyaluronate (0.5% in Water) (Cockscomb)

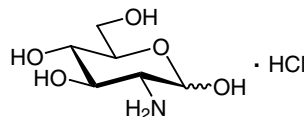
#### Z2012 Sodium Hyaluronate (0.25% in Water) (Cockscomb)

### D-Glucamine



D-Glucamine has smoothing and moisturizing effects on the skin. It is blended into many cosmetic products.

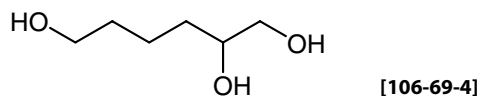
### D-(+)-Glucosamine Hydrochloride



D-(+)-Glucosamine is a natural amino sugar, which forms chitin and chitosan, that is extracted from crustacea such as crabs and prawns. It is also one of the main components of cartilage cells. Glucosamine soothes and alleviates dry skin, makes the application of make-up products smoother, and increases the moisture level of the skin.

### Alkanetriols

#### H0104 1,2,6-Hexanetriol



1,2,6-Hexanetriol is blended into cosmetic products as a moisturizer.

#### B0918 1,2,3-Butanetriol [4435-50-1]

#### B0687 1,2,4-Butanetriol [3068-00-6]

#### P1350 1,2,5-Pentanetriol [14697-46-2]

#### H0957 1,2,7-Heptanetriol [37939-50-7]

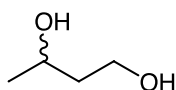
#### O0279 1,2,8-Octanetriol [382631-43-8]

#### N0652 1,2,9-Nonanetriol [382631-42-7]

#### D2721 1,2,10-Decanetriol [91717-85-0]

#### T0894 3-Methylpentane-1,3,5-triol [7564-64-9]

## Alkanediols



<b>B0679</b>	<b>1,3-Butanediol</b>	<b>[107-88-0]</b>
<b>B1159</b>	<b>(R)-(-)-1,3-Butanediol</b>	<b>[6290-03-5]</b>
<b>B1160</b>	<b>(S)-(+)-1,3-Butanediol</b>	<b>[24621-61-2]</b>
Butanediol is blended into cosmetic products as a moisturizer.		
<b>P1152</b>	<b>(R)-(-)-1,2-Propanediol</b>	<b>[4254-14-2]</b>
<b>P1129</b>	<b>(S)-(+)-1,2-Propanediol</b>	<b>[4254-15-3]</b>
<b>P0486</b>	<b>1,3-Propanediol</b>	<b>[504-63-2]</b>
<b>B0804</b>	<b>1,2-Butanediol</b>	<b>[584-03-2]</b>
<b>B0680</b>	<b>1,4-Butanediol</b>	<b>[110-63-4]</b>
<b>B0681</b>	<b>2,3-Butanediol (mixture of stereoisomers)</b>	<b>[513-85-9]</b>
<b>B1161</b>	<b>(R,R)-(-)-2,3-Butanediol</b>	<b>[24347-58-8]</b>
<b>B1343</b>	<b>(S,S)-(+)-2,3-Butanediol</b>	<b>[19132-06-0]</b>
<b>P1178</b>	<b>1,2-Pentanediol</b>	<b>[5343-92-0]</b>
<b>P0050</b>	<b>1,5-Pentanediol</b>	<b>[111-29-5]</b>
<b>P1411</b>	<b>(2R,4R)-(-)-2,4-Pentanediol</b>	<b>[42075-32-1]</b>
<b>P1412</b>	<b>(2S,4S)-(+)-2,4-Pentanediol</b>	<b>[72345-23-4]</b>
<b>H0688</b>	<b>1,2-Hexanediol</b>	<b>[6920-22-5]</b>
<b>H0099</b>	<b>1,6-Hexanediol</b>	<b>[629-11-8]</b>
<b>H0100</b>	<b>2,5-Hexanediol</b>	<b>[2935-44-6]</b>
<b>H1032</b>	<b>(2R,5R)-2,5-Hexanediol</b>	<b>[17299-07-9]</b>
<b>H0969</b>	<b>(2S,5S)-2,5-Hexanediol</b>	<b>[34338-96-0]</b>
<b>H0948</b>	<b>1,2-Heptanediol</b>	<b>[3710-31-4]</b>

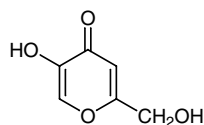
<b>H0028</b>	<b>1,7-Heptanediol</b>	<b>[629-30-1]</b>
<b>O0277</b>	<b>1,2-Octanediol</b>	<b>[1117-86-8]</b>
<b>O0024</b>	<b>1,8-Octanediol</b>	<b>[629-41-4]</b>
<b>O0293</b>	<b>(3R,6R)-3,6-Octanediol</b>	<b>[129619-37-0]</b>
<b>N0651</b>	<b>1,2-Nonanediol</b>	<b>[42789-13-9]</b>
<b>N0287</b>	<b>1,9-Nonanediol</b>	<b>[3937-56-2]</b>
<b>D2720</b>	<b>1,2-Decanediol</b>	<b>[1119-86-4]</b>
<b>D0014</b>	<b>1,10-Decanediol</b>	<b>[112-47-0]</b>
<b>D1861</b>	<b>1,2-Dodecanediol</b>	<b>[1119-87-5]</b>
<b>D0969</b>	<b>1,12-Dodecanediol</b>	<b>[5675-51-4]</b>
<b>D2678</b>	<b>threo-5,6-Dodecanediol</b>	<b>[70859-33-5]</b>
<b>D2719</b>	<b>erythro-5,6-Dodecanediol</b>	<b>[70859-32-4]</b>
<b>T1353</b>	<b>1,2-Tetradecanediol</b>	<b>[21129-09-9]</b>
<b>H0993</b>	<b>1,2-Hexadecanediol</b>	<b>[6920-24-7]</b>
<b>H0552</b>	<b>1,16-Hexadecanediol</b>	<b>[7735-42-4]</b>

Chondroitin Sulfate Sodium Salt **C0335** [9082-07-9]

Chondroitin Sulfate Sodium Salt, one of the mucopolysaccharides, is known to exist extensively within the connective tissues of the skin and cartilage of living organisms. It is believed that the content of chondroitin within the skin decreases with age. It is blended into cosmetic products as a moisturizer.

## Skin-Whitening Ingredients

## Kojic Acid



[501-30-4]

Kojic Acid has become known for its anti-bacterial properties and whitening effects due to its retardation of melanism. Since it also inhibits enzymes which deteriorate foodstuffs, it is being employed not only as a compounding agent in cosmetics, but also as a deterioration inhibitor for foodstuffs, especially in the prevention of the discoloration of a crab.

**K0010 Kojic Acid (pure grade)**

Appearance : White to light yellow crystals or crystalline powder. Practically odorless

Melting point : 154 ~ 158 °C

Purity (Potentio metric titration) : > 98.0 %

**Z2135 / Z2028 Kojic Acid (practical grade)**

Appearance : White to light yellow.  
Crystalline powder to powder

Melting point : 153 ~ 158 °C

Residue on ignition (sulfates) : < 0.5 %

Water content : < 2.0 %

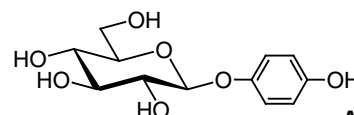
Purity (Potentio metric titration) : > 98.0 %

Heavy metals : < 20 ppm

Arsenic : < 2 ppm

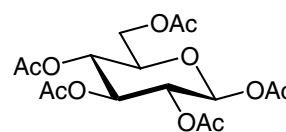
Microbiological test : Bacteria < 3,000 cfu/g,  
Coliform group 0 cfu/g, Mold < 50 cfu/g

## Arbutin

**A0522** [497-76-7]

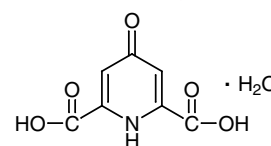
It is reported that arbutin inhibits the activity of tyrosinase, which is a key enzyme for melanin biosynthesis. This acts to effectively prevent the anomalous increase of melanin which is blamed for "age or sun spots and freckles."

## Penta-O-acetyl-β-D-glucopyranose

**P0028** [604-69-3]

Glycosides whose glycosyl donor is Pentaacetyl-β-D-glucose are utilized in whitening cosmetics, fragrances, etc.

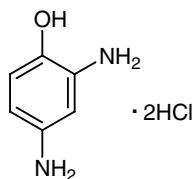
## Chelidamic Acid Monohydrate

**C0821** [138-60-3]

Chelidamic Acid is attracting attention as a pharmaceutical intermediate and as well as a cosmetic material due to its anti-inflammatory and whitening properties.

## Hair Dyeing

### Amidol

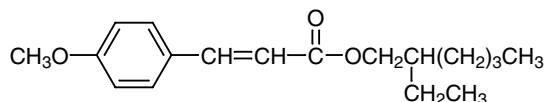


D0080 [137-09-7]

Amidol, used as a photo-developing agent, is also used as a component of hair-dyeing products.

## UV-absorber

### 2-Ethylhexyl 4-Methoxycinnamate



M1082 [5466-77-3]

2-Ethylhexyl 4-Methoxycinnamate is frequently blended into cosmetic products as a sunscreen.

## Others

### $\omega$ -Aminoalkanols

A0297	2-Aminoethanol	[141-43-5]
A0298	Ethanolamine Hydrochloride	[2002-24-6]
A0438	3-Amino-1-propanol	[156-87-6]

A0407	3-Amino-1-propanol Hydrochloride	[14302-46-6]
A1013	4-Amino-1-butanol	[13325-10-5]
A0875	5-Amino-1-pentanol	[2508-29-4]
A1027	6-Amino-1-hexanol	[4048-33-3]

## TCI Ordering and Customer Service

### TCI EUROPE N.V.

Tel : 00 800 46 73 86 67 • +32 (0)3 735 07 00  
Fax : +32 (0)3 735 07 01  
E-mail : sales@tcieurope.eu  
Website : www.tcieurope.eu

### TCI Deutschland GmbH

Tel : +49 (0) 6196 998678-0  
Fax : +49 (0) 6196 998678-1  
E-mail : sales@tcideutschland.de  
Website : www.tcieurope.eu/de/

### Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 784560  
Fax : +44 (0)1865 784561  
E-mail : sales@tci-uk.co.uk  
Website : www.tci-uk.co.uk

### TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81-3-5640-8878  
Fax : +81-3-5640-8902  
E-mail : globalbusiness@tokyokasei.co.jp  
Website : www.tci-asiapacific.com

### TCI Chemicals (India) Pvt. Ltd.

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E-mail : sales@tci-india.com  
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### 梯希爱(上海)化成工业发展有限公司

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