Alkyl Polyglucoside

New generation Green & Mild surfactant

SOHO ANECO CHEMICALS CO., LIMITED
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✓ About APG

Alkyl Polyglucoside - Mild Nonionic Surfactant
About APG

Alkyl Polyglucoside (APG) is a nonionic surfactant.

Chemical Structure

R is based on natural, renewable resources
X = DP
DP = 1.3 – 1.7
About APG

- Production flow chart

APG is made from natural fatty alcohols and glucose derived from renewable plants.

- Green, Natural, Mild, Safe
About APG

Properties

- Excellent cleaning performance
- Superior wetting property, low surface tension
- Alkaline resistance
- Extremely mild, very low skin irritating
- Good compatibility with all other types of surfactants
- Natural origin, Readily biodegradable
✓ About APG

- Biodegradation

APG show excellent biodegradation.

(Test Method: OECD 301D)

- Skin irritation

APG show lower irritating.

(Test Method: OECD 404)
✓ About APG

- **Synergistic effects**

  Synergistic effects of APG and K12 (Sodium Lauryl Sulfate)

  APG shows excellent compatibility and foamability.

- **Decontamination ability**

  The cleaning agent containing 5% APG has a excellent equality decontamination ability.
About APG

Applications

- Personal Care
  - Shampoo
  - Bubble bath
  - Cleaning lotion
  - Cosmetic emulsifiers
  - Facial cleaning

- House-hold
  - Dishwashing detergents
  - Laundry detergents
  - Adjuvants for textile
  - Carpet spot remover

- I&I industry
  - I&I Industrial cleaners
  - Hard surface cleaners
  - Car wash

House-hold

- 30%
- Personal care
- 47%
- I&I industry
- 20%
- Others

About APG

- 3%
- Others

- 30%
- Personal care
- 47%
- I&I industry
- 20%
- Others
### About APG

#### ANECO’s APG List

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Chemical/INCI Name</th>
<th>C Chain</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC8170N</td>
<td>Caprylyl/Capryl Glucoside</td>
<td>C8-10</td>
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<tr>
<td>AC1200</td>
<td>Lauryl Glucoside</td>
<td>C12-14</td>
<td>Personal Care</td>
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<tr>
<td>AC2000</td>
<td>Decyl Glucoside</td>
<td>C8-14</td>
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<tr>
<td>AC818</td>
<td>Coco-Glucoside</td>
<td>C8-14</td>
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<td>AC0810 50%</td>
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<td>AC215</td>
<td>Caprylyl/Capryl Glucoside</td>
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<td>Home Care, I&amp;I Industrial cleaners, Hard surface cleaners, Car wash</td>
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<td>C6 Alkyl Polyglucoside</td>
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<td>AC8</td>
<td>C8 Alkyl polyglucoside</td>
<td>C8</td>
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<tr>
<td>AC10</td>
<td>Decyl Glucoside</td>
<td>C10</td>
<td></td>
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</tbody>
</table>
About APG

- Package

1. DRUM (220kg): 4 drums in one pallet; 17600kg in FCL
   - close head with two small mouths
   - Open-top

2. IBC (1100kg): 18 IBC; 19800kg in FCL

3. ISO TANK
✓ About ANECO

We develop and supply high quality materials for cosmetic, personal care and I&I of China origin.
✅ About ANECO

- **Products series**
  - **Mild surfactant**
    Alkyl Polyglucoside (APG)
  - **Actives**
    Alpha Arbutin (AC-α-Arbutin)
    Sodium Ascorbyl Phosphate (AC-SAP)
    Ascorbyl Tetraisopalmitate (VcOS)
    Glyceryl Glucoside (AC-GG)
    Vanillyl Butyl Ether (AC-VBE)

✅ Factory established in 1995
✅ Biggest manufacturer in China, Capacity is 60,000 tons per year
✅ Total facility area 100,000 square meters
✅ 18 professional technicians and 60 staffs in the authorized technique center by government
✓ About ANECO

- Facility and storage

✓ Stable supply

- One 1000 tons storage tank, four 100 tons storage tank
- Supply you on stable, avoid the supply shortage
A technique center authorized by Jiangsu Province is established.
Focus on Bio-engineering related fields, biopolymer materials, biological preservatives and plant functional extracts;
42 national invention patents and 15 are authorized;
Improved crystallization technics, increase the production efficiency and reduce production cost.

*Any Appointed Testing Third-Party is Available from Client.
We have exported to all over the world, such as European Union, Southeast Asia, Russia, India, USA, and so on.
✓ About ANECO

• The key factors to our success

✓ Technical know-how
✓ Formulation support
✓ Excellent market intelligence
✓ Teamwork
✓ Outstanding service

• Enzymatic glycosylation
• Chemical synthetic
• Fermentation

A global unique and leading tech.
✓ About ANECO

Why choose us and our products

✓ Product quality
Guarantee consistent quality and supply. Stable quality will reduce cost for customers.

✓ Professional team
provide excellent service, make things easy.

✓ Easy to replace
Provide most cost-effective ingredients for customer, equivalent as well known products.

✓ Global leading technology
Green and sustainable trend.
✓ About ANECO

- We are present in these exhibitions.
Above all, 8 advantages of ANECO’s APG

Many years experience.
We know well about APG from BASF/Cognis, LG Chemicals, Dow, Seppic and Akzo Nobel.

We develop and provide countertypes to world’s leading manufacturers’ APG.

Specifications can be adjusted.
According to customer’s requirement, items including content, pH value, carbon chain distribution, preservatives, etc.

Global capacity

- BASF: 46%
- ANECO: 23%
- LG: 15%
- Others: 15%
High production efficiency and competitive price. 60,000Mt annual capacity totally.

Enough storage, avoid the supply shortage. One 1000 tons storage tank, four 100 tons storage tank for raw material stock.

Technical support and Quality assurance. About 150 technical staff, guarantee consistent quality, and problem shooting promptly.

Meet environmental protection requirements, ensure stable production.
- More and more strict environmental request in China;
- Thousands factories shut down these two years;
- Around USD2 Million will be spent on environmental protection every year.

Certification
- RSPO
- COSMOS / ECOCERT
- REACH registration
Thank You!

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www.anecochem.com