

功能性化学品 Functional Chemicals

脂肪伯胺/Fatty Primary Amine

脂肪仲胺/Fatty Secondary Amine

丙二胺/Propylene Diamine

叔胺/Tertiary Amine

季铵盐/Quaternary Ammonium

葡萄糖苷类/APG products

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聚季铵盐/Poly Quaternary Ammonium

特种胺/Special Amine



因为用心,所以专业;因为专业,所以放心;
因为放心,所以信赖;因为信赖,所以选择
Because of the heart, so professional;
Because professional, so rest assured;
Because at ease, so trust; Because of trust, so choose





公司介绍 COMPANY PROFILE

大连安铭斯化学有限公司是洪大集团合纵连横，开创新局的一家从事精细有机化学品，特别是有功能性精细化学品的现代高新化工企业。公司主营机胺类和表面活性剂类产品，基于产学研结合成果和强大的供应链条，有机胺和表面活性剂等功能性化学品产能可达到40万吨/年，产品广泛应用于日用化学品，石油工业，聚氨酯，环氧树脂，水处理工业，医药，建筑涂料，造纸，农化等多个领域。

大连安铭斯非常重视环境保护。为了满足产品质量和各国/地区环保法规的要求，产品将建立在合规性、安全性和经济性的三者平衡上。锐远科美特牌有机胺和表面活性剂将为用户从生产储运、销售和应用四个环节上提供保驾护航，以期成为可信赖的长期合作伙伴。

Dalian Amines Chemical Co., Ltd. is a modern high-tech chemical company engaged in fine chemicals, especially functional fine chemicals. Jointly operated by Hongda Group, Company's main products include amines and surfactants. Based on the combination of industry, academia, and research, as well as a strong supply chain, the production capacity of functional chemicals can reach 400000tons/year. The products are widely used in daily chemicals, petroleum industry, polyurethane, epoxy resin, water treatment industry, medicine, building coatings, papermaking, agriculture and other fields.

Dalian Amines attaches great importance to environmental protection. In order to meet the requirements of product quality and environmental regulations of various countries/regions the product will be established on the balance of compliance, safety, and economy. ReayoungCHEMTECH brand organic amines and surfactants will provide protection for users from four aspects of production, storage and transportation, sales, and application, with the aim of becoming a reliable long-term partner.



功能性化学品/Functional Chemicals

I. 脂肪伯胺/Fatty Primary Amine

II. 脂肪仲胺/Fatty Secondary Amine

III. 丙二胺/Propylene Diamine

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X. 特种胺/Special Amine



I. 脂肪伯胺/Fatty Primary Amine

1.化学式:RNH₂(R为脂肪烷基)

2.物化性质:具有弱刺激性氨味, 不易溶于水, 易溶于氯仿、乙醇、乙醚及苯中, 具有碱性, 可与酸反应生成相应的盐

类型	外观 25°C	含量/%≥	总胺值 (mgKOH/g)	色泽 /(Hazen)<	水份/%<	凝固点/°C	碘值 /(gI ₂ /100g)<
十二胺	一等品	98	295~305	30	0.3	20~30	2
	合格品	95	288~305	100	0.5		3
椰油胺	一等品	98	275~287	30	0.3	13~24	12
	合格品	95	265~287	100	0.5		12
十二/十四胺	一等品	98	270~290	30	0.3	20~30	2
	合格品	95	260~290	100	0.5		3
十四胺	一等品	98	250~270	30	0.3	30~40	2
	合格品	95	245~265	100	0.5		3
十六胺	一等品	98	215~235	30	0.3	35~45	2
	合格品	95	213~233	100	0.5		3
棕榈胺	一等品	98	215~223	30	0.3	38~55	2
	合格品	95	210~223	100	0.5		3
氢化牛脂胺	一等品	98	210~220	30	0.3	38~55	2
	合格品	95	205~220	100	0.5		3
硬脂胺	一等品	98	210~216	30	0.3	40~65	2
	合格品	95	205~216	100	0.5		3
十八胺	一等品	98	204~210	30	0.3	40~56	2
	合格品	95	200~210	100	0.5		3

3.主要用途:伯胺是阳离子和两性离子表面活性剂的重要中间体, 广泛用于矿物浮选剂、纤维防水柔软剂、染色助剂、抗静电剂、颜料分散剂、防锈蚀剂、化肥防结块剂、润滑油添加剂、杀菌消毒剂等行业。

4. 包装和储存:净重160Kg镀锌铁桶装(或根据客户需要包装), 保持干燥、防热、防湿

I. 脂肪伯胺/Fatty Primary Amine

1. Chemical formula: RNH₂ (R is fatty alkyl)

2. Physicochemical properties: weak irritating ammonia smell, not easily soluble in water, easily soluble in chloroform, ethanol, ether and benzene, alkaline, can react with acid to form corresponding salt

TYPE		Appearance 25°C	Content/%≥	Total amine value (mgKOH/g)	Color /(Hazen)<	Moisture/% <	Freezing point/°C	Iodine value /(gI ₂ /100g)<
Dodecyl amine	First grade	white solid	98	295~ 305	30	0.3	20~30	2
	Qualified product		95	288~305	100	0.5		3
Cocamine	First grade	Colorless to yellow transparent liquid	98	275~287	30	0.3	13~24	12
	Qualified product		95	265~287	100	0.5		12
Dodecyl/Tetradecyl amine	First grade	white solid	98	270~ 290	30	0.3	20~30	2
	Qualified product		95	260~290	100	0.5		3
Tetradecyl amine	First grade	white solid	98	250~270	30	0.3	30~40	2
	Qualified product		95	245~265	100	0.5		3
Hexadecyl amine	First grade	white solid	98	215~235	30	0.3	35~45	2
	Qualified product		95	213 ~ 233	100	0.5		3
Palmita mine	First grade	white solid	98	215 ~ 223	30	0.3	38~55	2
	Qualified product		95	210 ~ 223	100	0.5		3
Hydrogenated tallow amine	First grade	white solid	98	210~220	30	0.3	38~55	2
	Qualified product		95	205~220	100	0.5		3
Stearyl amine	First grade	white solid	98	210~216	30	0.3	40~65	2
	Qualified product		95	205~216	100	0.5		3
Octadecyl amine	First grade	white solid	98	204~210	30	0.3	40~56	2
	Qualified product		95	200~210	100	0.5		3

3. Main application: primary amine is an important intermediate of cationic and zwitterionic surfactants, widely used in mineral flotation agent, fiber waterproof softener, dyeing auxiliaries, antistatic agent, pigment dispersant, antirust agent, chemical fertilizer Anti-caking agent, lubricating oil additive, bactericidal disinfectant and other industries.

4. Packaging and storage: galvanized iron drum with a net weight of 160Kg (or package according to customer needs), keep dry, heat-proof and moisture-proof

II. 脂肪仲胺/Fatty Secondary Amine

1.化学式:R₂NH(R为椰油基或氢化牛脂基)

2.物化性质:本品为白色蜡状固体,易溶于氯仿,溶于醇、乙醚及苯,不溶于水,具有一定碱性,能与酸反应生成盐。

类型	外观 25℃	总胺值/(mgKOH/g)	纯度/%≥	仲胺值 (mgKOH/g)	色泽 (Hazen)<	碘值 (gI ₂ /100g)<	凝固点/℃
双氢化牛脂基仲胺	一等品	107~115	90	97~109	2	<12	60~70
	合格品	107~117	88	94~109	3		60~70
双椰油基仲胺	一等品	135~150	90	123~145	2	<12	40~50
	合格品	135~153	88	119~145	3		40~50

3.主要用途:伯胺是阳离子和两性离子表面活性剂的重要中间体,广泛用于矿物浮选剂、纤维防水柔软剂、染色助剂、抗静电剂、颜料分散剂、防锈蚀剂、化肥防结块剂、润滑油添加剂、杀菌消毒剂等行业。

4.包装和储存:净重160Kg镀锌铁桶装(或根据客户要求包装),保持干燥、防热、防湿

II. 脂肪仲胺/Fatty Secondary Amine

1.Chemical formula: R₂NH (R is coconut oil base or hydrogenated tallow base)

2.Physical and chemical properties: This product is a white waxy solid, soluble in chloroform, soluble in alcohol, ether and benzene, insoluble in water, has a certain alkalinity, and can react with acid to form salt.

Type	Appearance 25℃	Total amine value/(mgKOH/g)	Purity/%≥	Secondary amine value (mgKOH/g)	Color (Hazen)<	Iodine value (gI ₂ /100g)<	Freezing point/℃
Dihydrogenated tallow secondary amine	First grade	107~115	90	97~109	2	<12	60~70
	Qualified product	107~117	88	94~109	3		60~70
Double cocoyl secondary amine	First grade	135~150	90	123~145	2	<12	40~50
	Qualified product	135~153	88	119~145	3		40~50

3.Main application: Mainly used in herbicides, dioxane polymer stabilizers, fiber waterproofing agents, antistatic agents and softeners, etc.

4.Packaging and storage: packed in galvanized iron drums, net weight 160Kg/drum (or packed according to customer needs), stored in a cool, dry place.

III. 丙二胺/Propylene Diamine

1. 产品代号: DMAPA

2. 化学名称: N,N-二甲基-1,3-丙二胺

3. 化学式: $(CH_3)_2N(CH_2)_3NH_2$

4. 物化性质: 本品为无色透明液体, 可溶于水、乙醇乙醚等有机溶剂。在空气中发烟并变黑。

产品类型	外观	含量	色泽 (Hazen)	水份
一等品	无色透明	0.998	12	0.03
合格品	无色透明	0.996	20	0.1

4. 主要用途: 用作有机合成中间体, 用来制取染料、离子交换树脂、环氧树脂固化剂, 油料和无氰电镀锌添加剂, 纤维及皮革处理剂和分离剂等。可用来生产丙基甜菜碱(PKO), 镀锌助剂, 絮凝剂, 硅烷偶联剂, 聚氨酯催化剂等。

5. 包装和储存: 镀锌铁桶, 净重160Kg/桶(或根据客户需要包装), 在干燥通风处, 密闭贮存

III. 丙二胺/Propylene Diamine

1. Product code: DMAPA

2. Chemical Name: N,N-Dimethyl-1,3-Diamine

3. Chemical formula: $(CH_3)_2N(CH_2)_3NH_2$

4. Physical and chemical properties: This product is a colorless transparent liquid, soluble in water, ethyl ether and other organic solvents. Fumes and turns black in the air.

product type	Appearance	Content	Color (Hazen)	Moisture
First grade	Colorless and transparent	0.998	12	0.03
Qualified product	Colorless and transparent	0.996	20	0.1

4. Main application: used as an intermediate in organic synthesis, used to prepare dyes, ion exchange resins, epoxy resin curing agents, oils and cyanide-free electrical zinc additives, fiber and leather treatment agents and release agents, etc. It can be used to produce propyl betaine (PKO), galvanizing additive, flocculant, silane coupling agent, polyamide catalyst, etc.

5. Packaging and storage: galvanized iron drum, net weight 160Kg/drum (or packing according to customer needs), in a dry and ventilated place, airtight storage

IV. 叔胺类产品/Tertiary Amine Products

4.1. 双脂肪烷基甲基叔胺

1. 化学式: R_2NCH_3 (R为脂肪烷基)

2. 物化性质: 本品为无色或浅黄色透明液体或固体, 具有碱性, 不溶于水, 可溶于乙醇、乙醚等有机溶剂, 具有有机胺的化学通性。

类型		外观 (25°C)	纯度/%≥	总胺值/ (mgKOH/g)	色泽 (Hazen)<	伯仲胺/%	主成份/%≥
D12MA	一等品	白色固体	96	145~153	30	<1.0	94
	合格品		94	145~153	50	<2.0	92
D14MA	一等品	白色固体	95	125~133	70	<2.0	94
	合格品		93	125~133	100	<3.0	94
D16MA	一等品	白色固体	98	109~117	70	<2.0	
	合格品		97	109~117	100	<3.0	
D(18/16)MA	一等品	白色固体	98	102~109	70	<2.0	
	合格品		97	102~109	100	<3.0	

3. 主要用途: 用于纺织品抗静电剂、防腐剂、化妆品和日用化学品行业, 是合成阳离子表面活性剂的重要中间体。

4. 包装和储存: 镀锌铁桶装, 净重160Kg/桶(或根据客户要求包装), 防热、防湿。

4.1. Difatty alkyl methyl tertiary amine

1. Chemical formula: R_2NCH_3 (R is fatty alkyl)

2. Physical and chemical properties: This product is a colorless or light yellow transparent liquid or solid, alkaline, insoluble in water, soluble in organic solvents such as ethanol and ether, and has the chemical properties of organic amines

Type		Appearance (25°)	Content/ purity/%≥	Total amine value/ (mgKOH/g)	Color (Hazen)<	Primary and secondary amines/%	Main component /%≥
D12MA	First grade	white solid	96	145~153	30	<1.0	94
	Qualified product		94	145~153	50	<2.0	92
D14MA	First grade	white solid	95	125~133	70	<2.0	94
	Qualified product		93	125~133	100	<3.0	94
D16MA	First grade	white solid	98	109~117	70	<2.0	
	Qualified product		97	109~117	100	<3.0	
D(18/16)MA	First grade	white solid	98	102~109	70	<2.0	
	Qualified product		97	102~109	100	<3.0	

3. Main application: It is used in textile antistatic agent, preservative, cosmetics and daily chemicals industry, and is an important intermediate in the synthesis of cationic surfactants.

4. Packaging and storage: packed in galvanized iron drums, net weight 160Kg/drum (or packed according to customer needs), heat-proof and moisture-proof

IV. 叔胺类产品/Tertiary Amine Products

4.2. 脂肪烷基二甲基叔胺

产品名称		外观	色泽 Hazen/<	叔胺含量/%≥	叔胺胺值 mgKOH/g	伯仲胺含量%
12DMA	一等品	无色透明液体	20	98	255-263	<0.3
	合格品	无色透明液体	30	97	255-263	<0.7
14DMA	一等品	无色透明液体	20	98	225-233	<0.3
	合格品	无色透明液体	30	97	225-233	<0.7
16DMA	一等品	无色透明液体	20	98	202-208	<0.3
	合格品	无色透明液体	30	97	202-208	<0.7
18DMA	一等品	无色透明液体	20	98	183-189	<0.3
	合格品	无色透明液体	30	97	183-189	<0.7
12/14DMA	一等品	无色透明液体	20	98	240-260	<0.3
	合格品	无色透明液体	30	97	240-260	<0.7
16/18DMA	一等品	无色透明液体	20	98	195-205	<0.3
	合格品	无色透明液体	30	97	195-205	<0.7
18/16DMA	一等品	无色透明液体	20	98	185-195	<0.3
	合格品	无色透明液体	30	97	185-195	<0.7
Dual 8-10DMA	一等品	无色透明液体	20	98	311-330	<0.3

2. 性状与用途：脂肪烷基二甲基叔胺不溶于水，溶于醇类。主要用作制备阳离子表面活性剂、两性离子表面活性剂和非离子表面活性剂的中间体，也可用于颜料安定剂、油漆增强剂、土壤安定剂、其他有机合成体中间体。

3. 包装与储存：净重160kg/桶，镀锌桶或塑料桶。轻装轻卸，避酸，于阴凉干燥处存放，远离火源和热源。

IV. 叔胺类产品/Tertiary Amine Products

4.2. Fatty Alkyl Dimethyl Tertiary Amine

Product name		Appearance	Color Hazen/<	Tertiary amine Content/%≥	Tertiary amine value mgKOH/g	Primary and secondary amine content%
12DMA	First grade	colorless transparent liquid	20	98	255-263	<0.3
	Qualified product	colorless transparent liquid	30	97	255-263	<0.7
14DMA	First grade	colorless transparent liquid	20	98	225-233	<0.3
	Qualified product	colorless transparent liquid	30	97	225-233	<0.7
16DMA	First grade	colorless transparent liquid	20	98	202-208	<0.3
	Qualified product	colorless transparent liquid	30	97	202-208	<0.7
18DMA	First grade	colorless transparent liquid	20	98	183-189	<0.3
	Qualified product	colorless transparent liquid	30	97	183-189	<0.7
12/14DMA	First grade	colorless transparent liquid	20	98	240-260	<0.3
	Qualified product	colorless transparent liquid	30	97	240-260	<0.7
16/18DMA	First grade	colorless transparent liquid	20	98	195-205	<0.3
	Qualified product	colorless transparent liquid	30	97	195-205	<0.7
18/16DMA	First grade	colorless transparent liquid	20	98	185-195	<0.3
	Qualified product	colorless transparent liquid	30	97	185-195	<0.7
Dual 8-10DMA	First grade	colorless transparent liquid	20	98	311-330	<0.3

2. Properties and uses: Fatty alkyl dimethyl tertiary amines are insoluble in water but soluble in alcohols. It is mainly used as an intermediate for the preparation of cationic surfactants, zwitterionic surfactants and nonionic surfactants. It can also be used as an intermediate for pigment stabilizers, paint enhancers, soil stabilizers, and other organic synthesis.

3. Packaging and storage: Net weight 160kg/drum, galvanized or plastic drum. Load and unload lightly, avoid acid, store in a cool and dry place, away from fire and heat sources.

IV. 叔胺类产品/Tertiary Amine Products

4.2.1. 十二烷基二甲基叔胺-12DMA

1. 化学名称:N,N-二甲基十二烷基叔胺

2. 化学式:C₁₂H₂₂N(CH₃)₂

3. 物化性质:无色或微黄色液体。有碱性,能溶于多种有机溶剂,难溶于水。凝固点15℃,沸程80-115℃(0.4kpa),比重0.78,折光率1.4351

4. 质量标准

Project	Appearance 25°C	Color/(Haze n) ≤	Tertiary amine content/% ≥	Total amine value/ (mgKOH/g)	Primary and secondary amine/%	Free alcohol/%	Main components/%			
Type							C8	C10	C8+C10	C12
First grade	colorless transparent liquid	20	98	255~263	<0.3	<0.6	-	-	-	≥97
Qualified product	colorless transparent liquid	30	97	255~263	<0.7	<0.8	-	-	-	≥95

6. 产品用途: 产品用:本品及其衍生物是重要的阳离子表面活性剂的中间体,用于生产杀菌剂、灭藻剂、洗涤剂、增泡剂、纤维柔软剂、发用柔软剂、染色助剂、金属酸洗混合剂、矿业浮选剂和漂洗剂。

7. 包装和储存:净含量160kg/桶,镀锌桶或塑料桶(或根据客户需求包装),储运远离火源、热源、强酸等。

4.2.1. Dodecyl dimethyl tertiary amine-12DMA

1. Chemical name: N,N-Dimethyl dodecyl tertiary amine

2. Chemical formula: C₁₂H₂₂N(CH₃)₂

3. Physical and chemical properties: colorless or slightly yellow liquid. Alkaline, tolerant to various organic solvents, insoluble in water. Freezing point 15°C, boiling range 80-115°C (0.4kpa), specific gravity 0.78, refractive index 1.4351

4. Quality Standards

Project	Appearance 25°C	Color/(Haze n) ≤	Tertiary amine content/% ≥	Total amine value/ (mgKOH/g)	Primary and secondary amine/%	Free alcohol/%	Main components/%			
Type							C8	C10	C8+C10	C12
First grade	colorless transparent liquid	20	98	255~263	<0.3	<0.6	-	-	-	≥97
Qualified product	colorless transparent liquid	30	97	255~263	<0.7	<0.8	-	-	-	≥95

6. Application: This product and its derivatives are important intermediates of cationic surfactants, used in the production of bactericides, algacides, detergents, foam boosters, fiber softeners, hair softeners, dyeing aids Agents, metal pickling mixtures, mining flotation and rinsing agents.

7. Packaging and storage: Net weight 160kg/barrel, galvanized barrel or plastic barrel (or according to customer needs), storage and transportation away from fire, heat, strong acid, etc.

IV. 叔胺类产品/Tertiary Amine Products

4.2.2. 十八烷基二甲基叔胺-18DMA

1. 化学名称:N,N-二甲基十八烷基叔胺

2. 英文名称: N,N-Dimethyl octadecyl amine

3. 化学式: C₁₈H₃₃N(CH₃)₂

4. 物化性质:无色或微黄色液体固体, 易溶于苯 环乙、丙酮、甲醇、乙醇、难溶于水平均分子量2828,比重0,8039,折光率1.4407,沸程150-200°C/10-20mmHg, 凝固点27°C

项目	外观 25°C	色泽 (Hazen) ≤	叔胺含量/% ≥	总胺值/ (mgKOH/g)	伯仲胺含量 /%	游离醇/%	主组分/%			
指标							C8	C10	C8+C10	C18
一等品	无色透明液体	20	98	183~189	<0.3	<0.6	-	-	-	≥97
合格品	无色透明液体	30	97	183~189	<0.7	<0.8	-	-	-	≥95

5. 产品用途本品是制取阳离子表面活性剂和两性表面活性剂的中间体。用于制造和配制多种纺织印染柔软剂、均染剂、抗静电剂、金属防度剂、燃料油添加剂、水质杀菌灭藻剂。铀矿及稀有金属的萃取剂, 颜料研磨剂等

6. 包装和储存:160K/桶 镀锌铁桶(或根据客户需求包装), 储运远离火源、热源、强酸等

4.2.2. Octadecyl dimethyl tertiary amine-18DMA

1. Chemical name: N,N-Dimethyl octadecyl tertiary amine

2. English name: N,N-Dimethyl octadecyl amine

3. Chemical formula: C₁₈H₃₃N(CH₃)₂

4. Physical and chemical properties: colorless or slightly yellow liquid solid, easily soluble in phenylcycloidiene, acetone, methanol, ethanol, insoluble in water, average molecular weight 2828, specific gravity 0,8039, refractive index 1.4407, boiling range 150-200°C /10-20mmHg, freezing point 27°C

Project	Appearance 25°C	Color/(Haze n) ≤	Tertiary amine content/% ≥	Total amine value/(mgK OH/g)	Primary and secondary amine/%	Free alcohol/%	Main component/%			
Type							C8	C10	C8+C10	C18
First grade	colorless transparent liquid	20	98	183~189	<0.3	<0.6	-	-	-	≥97
Qualified product	colorless transparent liquid	30	97	183~189	<0.7	<0.8	-	-	-	≥95

5. Application This product is an intermediate for preparing cationic surfactants and amphoteric surfactants. Used in the manufacture and preparation of various textile printing and dyeing softeners, leveling agents, antistatic agents, metal anti-degree agents, fuel oil additives, and water quality bactericides and algacides. Uranium ore and rare metal extraction agent, pigment grinding agent, etc.

6. Packaging and storage: 160KG/barrel galvanized iron drum (or packaging according to customer needs), storage and transportation away from fire, heat, strong acid, etc.

IV. 叔胺类产品/Tertiary Amine Products

4.3. 椰油酰基丙基二甲基叔胺

1. 商品名称:椰油酰基丙基二甲基叔胺
2. 英文名称:Cocamidopropyl Dimethylamine
3. 化学结构式: $\text{RCO-NH(CH}_2)_3\text{-N(CH}_2)_3\text{RCO}$ =椰油酰基
4. 理化性质:白色至微黄色固体。密度0.910g/cm³。溶于酸性介质。
5. 技术指标

项目	外观 25°C	叔胺值 mgKOH/g	游离脂肪酸/%	色泽	1,3-丙二胺/%
指标	白色至微黄色固体	178-188	<1.5	≤50	<0.2

6. 本品是很好的石英砂浮洗剂,也是最有效的沥青乳化剂 还可用于纸张防水剂,腐蚀抑制剂和石油制品添加剂,也是生产制造氧化胺、甜菜碱等季接盐的中间体,可用于润肤剂、乳化剂、发泡剂、调理剂、柔软剂等。
7. 包装和储存:160Kg/桶,镀锌铁桶(或根据客户需求包装), 储运远离火源、热源、强酸等。

4.3. Cocoyl propyl dimethyl tertiary amine

1. Product name: cocoyl propyl dimethyl tertiary amine
2. English name: Cocamidopropyl Dimethylamine
3. Chemical structural formula: $\text{RCO-NH(CH}_2)_3\text{-N(CH}_2)_3\text{RCO}$ =cocoyl
4. Physical and chemical properties: white to yellowish solid. Density 0.910g/cm³. Soluble in acidic medium
5. Technical indicators

project	Appearance 25°C	Tertiary amine value mgKOH/g	Free fatty acid/%	color	1,3-Propanediamine/%
Index	white to slightly yellow solid	178-188	<1.5	≤50	<0.2

6. Application: This product is a good floating cleaning agent for quartz sand and the most effective bitumen emulsifier. It can also be used in paper waterproofing agent, corrosion inhibitor and petroleum product additive. It is also an intermediate in the production of quaternary salts such as amine oxide and betaine. It can be used in emollients, emulsifiers, foaming agents, conditioners, softeners, etc.
7. Packaging and storage: 160Kg/barrel, galvanized iron drum (or packing according to customer needs), storage and transportation away from fire, heat, strong acid, etc.

V. 季铵盐类产品/Quaternary Ammonium Products

5.1. 双十八烷基甲基苄基氯化铵(D1817)

1. 商品名称:双十八烷基甲基苄基氯化铵(D1817)

2. 英文名称: Benzylmethyldioctadecylammonium chloride

3. 化学结构式: $[(C_{18}H_{37})-NCH_3-(CH_2C_6H_6)]+Cl^-$

4. 物化性质:无色或淡黄色膏体, 溶于水、易溶于乙醇, 为新型膨润土处理剂, 织物柔顺剂, 抗静电剂。

5. 质量标准

项目名称	指标	
	一等品	合格品
外观(25℃)	白色至微黄色膏体或固体	
活性物/%	74.0~78.0	
游离胺+胺的盐酸盐/%	2	2.5
PH(5%异丙醇水溶液(体积分数为1:1))	6.0~9.0	
色泽/(Gardner色度)<	3	4
灰份/% ≤	0.15	0.3

6. 包装和储存:净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.1. Dioctadecyl methylbenzyl Ammonium Chloride (D1817)

1. Commodity name: Dioctadecyl Methyl Mounyl Chloride (D1817)

2. English name: Benzylmethyldioctadecylammonium chloride

3. Chemical structural formula: $[(C_{18}H_{37})-NCH_3-(CH_2C_6H_6)]+Cl^-$

4. Physical and chemical properties: colorless or light yellow paste, soluble in water, easily soluble in ethanol, a new bentonite treatment agent, fabric softener, antistatic agent.

5. Quality Standards

Indicator name	Index	
	First grade	Qualified product
Appearance (25℃)	White to light yellow paste or solid	
Active matter/%	74.0~78.0	
Free amine + amine hydrochloride/%	2	2.5
PH (5% isopropanol aqueous solution (1:1 volume fraction))	6.0~9.0	
Color/(Gardner Chroma)<	3	4
Ash/% ≤	0.15	0.3

6. Packaging and storage: net weight 50kg or 180kg/barrel or according to customer requirements. Store in a cool, dry and ventilated place

V. 季铵盐类产品/Quaternary Ammonium Products

5.2. 十二烷基三甲基氯化铵(1231)

1. 商品名称:十二烷基三甲基氯化铵(1231)

2. 英文名称:Dodecyl trimethylammonium chloride;DTAC

3. 化学结构式: $[C_{12}H_{25}-N-(CH_3)_3]+Cl^-$

指标名称	优级品	一等品	合格品
外观 (25°C)	无色或淡黄色液体	无色或淡黄色液体	无色或淡黄色液体
游离胺/%	<1.0	<2.0	<3.0
灰份/%	<0.5	<1.0	<2.0
活性物 %(Wt.)	>30	>30	>30
pH值	4.0~8.5		

4. 产品用途

1. 乳化剂:建筑防水涂料乳化剂, 护发素、化妆品乳化剂, 油田钻井深井时, 用作抗高温油包水乳化泥浆的乳化剂。
2. 油田用作油气井的杀菌剂, 工农业用杀菌剂。
3. 纺织助剂:织物柔软剂、合成纤维的抗静电剂。
4. 其他:乳胶工业的防粘剂和隔离剂。

5. 包装和储存:净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.2. Dodecyl trimethyl chloride (1231)

1. Product name: dodecyl trimethyl chloride (1231)

2. English name: Dodecyl trimethylammonium chloride;DTAC

3. Chemical structural formula: $[C_{12}H_{25}-N-(CH_3)_3]+Cl^-$

Indicator name	Premium product	First grade	Qualified product
Appearance (25°C)	colorless or light yellow liquid	colorless or light yellow liquid	colorless or light yellow liquid
Free amine/%	<1.0	<2.0	<3.0
Ash/%	<0.5	<1.0	<2.0
Active matter %(Wt.)	>30	>30	>30
PH value	4.0~8.5		

4. Application

1. Emulsifier: building waterproof coating emulsifier, hair conditioner, cosmetic emulsifier, used as an emulsifier for high temperature resistant water-in-oil emulsified mud when drilling deep wells in oil fields.
2. Bactericides: used in oil fields as fungicides for oil and gas wells, and fungicides for industrial and agricultural use.
3. Textile auxiliaries: fabric softener, antistatic agent for synthetic fibers.
4. Others: anti-sticking agent and release agent in latex industry.

5. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements. Store in a cool, dry and ventilated place.

V. 季铵盐类产品/Quaternary Ammonium Products

5.3. 十六烷基三甲基氯化铵(1631)

1. 商品名称:十六烷基三甲基氯化(1631)

2. 英文名称:Palmityl trimethylammonium chloride

3. 化学结构式: $[C_{16}H_{33}N(CH_3)_3]+Cl^-$

4. 物化性质:白色或微黄色膏体或固体。耐热、耐光、耐强酸和强碱。具有优良的表面活性、稳定性和生物降解性与阳离子、非离子、两性离子表面活性有良好的配伍性。

5. 质量标准

指标名称	优级品	一级品	合格品
外观 (25°C)	无色或淡黄色液体	无色或淡黄色液体	无色或淡黄色液体
游离胺/%	<1.0	≤2.0	≤3.0
灰份/%	<0.5	<1.0	<2.0
活性物% (Wt.)	≥30	≥30	≥30
pH值	4.0~8.5		

6. 产品用途 :

1. 乳化剂:沥青乳化剂及建筑防水涂料乳化剂、硅油乳化剂、护发素、化妆品乳化剂。
2. 纺织助剂:织物柔软剂和抗静电剂。
3. 絮凝剂:污水处理絮凝剂。
4. 其他:乳胶工业的防粘剂和隔离剂。

7. 包装和储存:净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.3. Cetyltrimethylammonium Chloride (1631)

1. Trade name: Cetyl trimethyl chloride (1631)

2. English name: Palmityl trimethylammonium chloride

3. Chemical formula: $[C_{16}H_{33}N(CH_3)_3]+Cl^-$

4. Physical and chemical properties: white or light yellow paste or solid. Resistance to heat, light, strong acids and alkalis. Has excellent surface activity, stability and biodegradability and good compatibility with cationic, nonionic and zwitterionic surfactants

5. Quality Standards

Indicator name	premium product	first grade	Qualified product
Appearance (25°C)	colorless or light yellow liquid	No color or pale yellow liquid	colorless or light yellow liquid
Free amine/%	<1.0	≤2.0	≤3.0
Ash	<0.5	<1.0	<2.0
Active matter% (Wt.)	≥30	≥30	≥30
PH value	4.0~8.5		

6. Application:

1. Emulsifier: asphalt emulsifier and building waterproof coating emulsifier, silicone oil emulsifier, hair conditioner, cosmetic emulsifier.
2. Textile auxiliaries: fabric softener and antistatic agent.
3. Flocculants: Sewage treatment flocculants.
4. Others: anti-sticking agent and release agent in latex industry.

7. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements. Store in a cool, dry and ventilated place

V. 季铵盐类产品/Quaternary Ammonium Products

5.4. 氯化二甲基双十八烷基(D1821)

1. 商品名称: 氯化二甲基双十八烷基(D1821)

2. 英文名称: Dimethyldioctadecylammonium chloride

3. 化学结构式: $[(CH_3)_2N(C_{18}H_{37})_2]+Cl^-$

4. 物化性质: 外观为白色或微黄色膏体或固体。易溶于极性溶剂, 微溶于水, 加热可溶解。与阳离子、阴离子、两性离子表面活性有良好的配伍性, 有较好的乳化分散性、抗静电性和防腐蚀性能。

5. 质量标准

项目	指标	
	一等品	合格品
外观 (25°C)	白色至微黄色膏体或固体	
活性物/%	74.0~78.0	
游离胺+胺的盐酸盐/%<	2	2.5
pH(5%异丙醇水溶液(体积分数为1:1))	6.0~9.0	
色泽/(Gardner chromaticity) ≤	3	4
Ash /%≤	0.15	0.3

6. 产品用途: 是用量巨大的织物柔软剂。也可用于沥青乳化剂、有机膨润土覆盖剂。在三次采油、制糖、纺织印染、洗涤用品和化妆品等领域也有广泛的用途。

7. 包装和储存: 净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.4. Dimethyl Dioctadecyl Chloride (D1821)

1. Commodity name: Dimethyl Dioctadecyl Chloride (D1821)

2. English name: Dimethyldioctadecylammonium chloride

3. Chemical structural formula: $[(CH_3)_2N(C_{18}H_{37})_2]+Cl^-$

4. Physical and chemical properties: the appearance is white or yellowish paste or solid. Soluble in polar solvents, slightly soluble in water, can be dissolved by heating. It has good compatibility with cationic, anionic and zwitterionic surfactants, and has good emulsification and dispersion, antistatic and anticorrosive properties.

5. Quality Standards

project	Index	
	First grade	Qualified product
Appearance (25°C)	White to light yellow paste or solid	
Active matter/%	74.0~78.0	
Free amine + amine hydrochloride/%<	2	2.5
PH (5% isopropanol aqueous solution (volume fraction is 1:1))	6.0~9.0	
Color/(Gardner chromaticity) ≤	3	4
Ash /%≤	0.15	0.3

6. Application: It is a fabric softener with a huge amount. It can also be used in asphalt emulsifier and organic bentonite covering agent. It is also widely used in the fields of tertiary oil recovery, sugar refining, textile printing and dyeing, washing products and cosmetics.

7. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements. Store in a cool, dry and ventilated place.

V. 季铵盐类产品/Quaternary Ammonium Products

5.5. 十八烷基三甲基氯化铵(1831)

1. 商品名称:十八烷基三甲基氯化铵(1831)

2. 英文名称:Octadecyl trimethyl ammonium chloride

3. 化学结构式: $[C_{18}H_{37}N(CH_3)_4]^+Cl^-$

4. 物化性质:白色状物、易溶于水,振荡时产生大量的泡沫。化学稳定性好,耐热、耐光、耐压、耐强酸和强碱。具有优良的渗透、柔软、乳化、抗静电及杀菌性能。能与多种表面活性剂或助剂良好的配伍,协同效果显著。

5. 质量标准:

项目	指标	
外观 (25°C)	无色或淡黄色至棕黄色液体或膏体	
活性物含量/(Wt.)	40±1	70±1
游离胺含量/%	≤1	≤1
色度Gard	<2	<2
NaCl%	≤3	≤3
pH值	5-9	5-9

6. 产品用途:

1. 乳化剂:沥青乳化剂及建筑防水涂料乳化剂,使用规格一般活性物含量240%;硅油乳化剂、护发素、化妆品乳化剂。
2. 纺织助剂:合成纤维抗静电剂、织物纤维柔软剂。
3. 改性助剂:有机膨润土改性剂。
4. 絮凝剂:生物制药工业蛋白质凝聚剂,污水处理絮凝剂。
5. 其他:玻璃纤维柔软加工助剂。

7. 包装和储存:净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.5. Octadecyl trimethyl chloride (1831)

1. Product Name: Octadecyl trimethyl Chloride (1831)

2. English name: Octadecyl trimethyl ammonium chloride

3. Chemical structural formula: $[C_{18}H_{37}N(CH_3)_4]^+Cl^-$

4. Physical and chemical properties: white substance, easily soluble in water, produces a lot of foam when vibrating. Good chemical stability, heat resistance, light resistance, pressure resistance, strong acid and alkali resistance. It has excellent penetration, softness, emulsification, anti-static and bactericidal properties. It can be well compatible with various surfactants or additives, and the synergistic effect is remarkable

5. Quality standard:

project	Index	
Appearance (25°C)	Colorless or light yellow to brown liquid or paste	
Active content %(Wt.)	40±1	70±1
Free amine content%	≤1	≤1
Chroma Gard	<2	<2
NaCl%	≤3	≤3
PH value	5-9	5-9

6. Application

1. Emulsifiers: asphalt emulsifiers and emulsifiers for building waterproof coatings, the use specifications generally have an active substance content of 240%; silicone oil emulsifiers, hair conditioners, and cosmetic emulsifiers.
2. Textile auxiliaries: synthetic fiber antistatic agent, fabric fiber softener.
3. Modification additive: organic bentonite modifier.
4. Flocculant: protein coagulant in biopharmaceutical industry, sewage treatment flocculant.
5. Others: glass fiber soft processing aids.

7. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements. Store in a cool, dry and ventilated place.

V. 季铵盐类产品/Quaternary Ammonium Products

5.6. BS-12甜菜碱

1. 商品名称: BS-12甜菜碱

2. 英文名称: Lauryl/Dodecyl dimethyl betaine

3. 化学结构式: $C_{22}H_{25}-N-(CH_3)_2CH_2COO-$

4. 物化性质: 无色至淡黄色透明液体, 刺激性小、性能温和、泡沫细腻且稳定, 具有调节粘度作用及杀菌作用, 增强头发、皮肤的柔软性。

5. 质量标准:

项目	指标
外观	无色至淡黄色透明液
活性物 %(Wt.)	30±1;45±1
NaCl(%)	<7
pH值 (5% 水溶液)	6-9

6. 产品用途: 因本品刺激性小, 主要用以配置婴儿洗涤用品、洗发香波、溶剂、洗面奶。还可用作洗涤剂、调理剂、润显剂、杀菌剂、增稠剂、抗静电剂等。

7. 包装和储存: 净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.6. BS-12 Betaine

1. Product Name: BS-12 Betaine

2. English name: Lauryl/Dodecyl dimethyl betaine

3. Chemical structural formula: $C_{22}H_{25}-N-(CH_3)_2CH_2COO-$

4. Physicochemical properties: colorless to pale yellow transparent liquid, less irritating, mild in performance, delicate and stable foam, has the effect of adjusting viscosity and bactericidal effect, and enhances the softness of hair and skin.

5. Quality standard:

Project	Index
Appearance	Colorless to light yellow transparent liquid
Active matter %(Wt.)	30±1;45±1
Sodium chloride(%)	<7
PH value (5% aqueous solution)	6-9

6. Application: Because this product is less irritating, it is mainly used to configure baby washing products, shampoo, solvent, and facial cleanser. It can also be used as detergent, conditioner, embellisher, bactericide, thickener, antistatic agent, etc.

7. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements. Store in a cool, dry and ventilated place.

V. 季铵盐类产品/Quaternary Ammonium Products

5.7. 十八烷基二甲基苄基氯化(1827)

1. 商品名称:十八烷基二甲基苄基氯化 (1827)

2. 英文名称:Benzyldimethylstearylammmonium chloride

3. 化学结构式: $[(C_{18}H_{37}N(CH_3)_2CH_2-C_6H_5)]^+Cl^-$

4. 物化性质:本品为白色或淡黄色固体, 微有刺鼻气味, 溶于水。溶解后呈粘稠液体, 溶于异丙醇、乙醇、水溶液、耐酸、耐硬水、耐无机盐、但不耐碱与强碱作用生成季铵碱(强碱)。具有优良的润湿性、抗电性、杀菌性、柔软调理性。属于季盐型阳离子表面活性剂。

5. 质量标准

项目	质量标准
外观 (25°C)	白色或淡黄色固体
活性物含量 %(Wt.)	50±1
游离胺含量 %	<1.0
胺盐含量 %	<3.0
pH值 (5%水溶液)	6-9

六、产品用途:

1. 杀菌剂:医药杀菌剂、工业循环水杀菌剂、油田杀菌剂。
2. 纺织染色助剂:湿润剂、整理剂、柔软剂、纤维抗静电剂。
3. 改性剂:有机膨润土改性剂。
4. 油田添加剂:润滑脂稠化剂。
5. 活性剂:石油炼油厂用脱硫活化剂。

七、包装和储存:净重50kg或180kg/桶或根据客户要求包装, 贮存于阴凉干燥通风处。

5.7. Octadecyldimethylbenzyl chloride (1827)

1. Trade name: octadecyl dimethyl benzyl chloride (1827)

2. English name: Benzyldimethylstearylammmonium chloride

3. Chemical structural formula: $[(C_{18}H_{37}N(CH_3)_2CH_2-C_6H_5)]^+Cl^-$

4. Physical and chemical properties: This product is white or light yellow solid, slightly pungent smell, soluble in water. It becomes a viscous liquid after dissolving, soluble in isopropanol, ethanol, aqueous solution, acid resistance, hard water resistance, inorganic salt resistance, but not resistant to call and strong base to form quaternary ammonium base (strong base). Has excellent wettability, anti-electricity, bactericidal, soft conditioning. It belongs to quaternary salt type cationic surfactant.

5. Quality Standards

project	Quality Standard
Appearance (25°C)	white or light yellow solid
Active content %(Wt.)	50±1
Free amine content%	<1.0
Amine salt content%	<3.0
PH value (5% aqueous solution)	6-9

6. Application:

1. Fungicides: medical fungicides, industrial circulating water fungicides, oil field fungicides.
2. Textile dyeing auxiliaries: wetting agent, finishing agent, softener, fiber antistatic agent.
3. Modifier: organic bentonite modifier.
5. Activator: desulfurization activator for petroleum refinery.
4. Oilfield additives: grease thickener.

7. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements, stored in a cool, dry and ventilated place

V. 季铵盐类产品/Quaternary Ammonium Products

5.8. 氧化胺OA-12

1. 商品名称:氧化胺OA-12

2. 英文名称:Dimethyldodecylamine oxide

3. 化学结构式: $[C_{12}H_{25}-CH_3-N-CH_3]=O$

4. 物化性质:本品为无色透明液体,在20℃时密度为0.98,易溶于水和极性有机溶剂,难溶于矿物质、苯、醚等非极性溶液。在PH>7时,呈阳离子性。具有增溶、乳化、发泡、稳泡、柔软、抗静电等优良性能。

5. 质量标准

项目	一等品	合格品
活性物%(Wt)	30±1	30±1
游离胺%	≤0.7	≤1
游离过氧化氢 %	<0.2	<0.2
pH值 (5%水溶液)	6.0±8.0	6.0±8.0
色泽	<50	<70

6. 产品用途:餐具洗涤剂:增泡、稳泡、增溶。乳化剂:化妆品膏霜、洗发香波。

7. 包装和储存:净重50kg或180kg/桶或根据客户要求包装。贮存于阴凉干燥通风处。

5.8. Amine oxide OA-12

Product Name: Amine Oxide OA-12

2. English name: Dimethyldodecylamine oxide

3. Chemical structural formula: $[C_{12}H_{25}-CH_3-N-CH_3]=O$

4. Physical and chemical properties: This product is a colorless transparent liquid with a density of 0.98 at 20℃. It is easily soluble in water and polar organic solvents, but insoluble in non-polar solutions such as minerals, benzene, and ether. When PH>7, it is cationic. It has excellent properties such as solubilization, emulsification, foaming, foam stabilization, softness, and antistatic properties.

5. Quality Standards

project	First grade	Qualified product
Active matter %(Wt.)	30±1	30±1
Free amine%	≤0.7	≤1
Free H2O2 %	<0.2	<0.2
PH value (5% aqueous solution)	6.0±8.0	6.0±8.0
color	<50	<70

6. Application: tableware detergent: increase foam, stabilize foam, solubilize. Emulsifier: cosmetic cream, shampoo

7. Packaging and storage: net weight 50kg or 180kg/drum or according to customer requirements. Store in a cool, dry and ventilated place

V. 季铵盐类产品/Quaternary Ammonium Products

5.9. 十二烷基二甲基苄基氯化铵(1227)

1. 商品名称:十二烷基二甲基苄基氯化铵(1227)

2. 英文名称: Dodecyl dimethyl benzyl ammonium chloride/ benzalkonium chloride

3. 化学结构式: $[C_{12}H_{25}N(CH_3)_2-CH_2-C_6H_5]^+Cl^-$

4. 物化性质:本品为无色至淡黄色粘稠透明液体, 易溶于水, 化学稳定性良好, 耐热、耐光、无挥发性。具有强烈的杀菌和抑防娃性能。在酸性和碱性溶液中都能离解为带阳电荷的长链阳离子。

5. 质量标准

项目	质量标准
外观	无色或淡黄色透明液体
活性物含量 %(Wt.)	45±1
游离胺含量 %	≤1.0
胺盐含量 %	<3.0
pH值	6-8

6. 产品用途: 本品含量45%, 在水中澄清无混, 可作为纺织印染行业的杀菌防霉剂及柔软剂、抗静电剂、乳化剂、调理剂等。

1. 杀菌灭藻剂: 工厂循环冷却水、发电厂用水、油田油井注水系统杀菌灭藻。

2. 消毒杀菌剂: 医院手术及医疗器械消毒剂, 食品加工设备、养蚕场地、制糖工业生产过程的消毒杀菌剂。

7. 包装和储存: 净重50kg或180kg/桶或根据客户要求包装。置于通风干燥处、勿与强碱混放。

5.9. Dodecyl Dimethyl Benzyl Ammonium Chloride (1227)

1. Product name: dodecyl dimethyl benzyl ammonium chloride (1227)

2. English name: Dodecyl dimethyl benzyl ammonium chloride/ benzalkonium chloride

3. Chemical structural formula: $[C_{12}H_{25}N(CH_3)_2-CH_2-C_6H_5]^+Cl^-$

4. Physical and chemical properties: This product is a colorless to light yellow viscous transparent liquid, easily soluble in water, good chemical stability, heat resistance, light resistance, and non-volatile. It has strong bactericidal and anti-silicone properties. Can dissociate into positively charged long-chain cations in both acidic and alkaline solutions

5. Quality Standards

Project	Quality Standard
Appearance	Colorless or light yellow transparent liquid
Active content %(Wt.)	45±1
Free amine content%	≤1.0
Amine salt content%	<3.0
PH value	6-8

6. Application: The content of this product is 45%, and it is clear and unmixed in water. It can be used as a bactericidal antifungal agent, softener, antistatic agent, emulsifier, conditioner, etc. in the textile printing and dyeing industry.

1. Bactericide and algicide: factory circulating cooling water, power plant water, oil field oil well water injection system to sterilize and kill algae.

2. Disinfectants: disinfectants for hospital operations and medical instruments, for food processing equipment, for silkworm breeding sites, and for the production process of the sugar industry.

7. Packaging and storage: net weight 50kg or 180kg/barrel or according to customer requirements. Store in a ventilated and dry place, do not mix with strong alkali

V. 季铵盐类产品/Quaternary Ammonium Products

5.10. 椰油酰胺丙基甜菜碱(CAB-30)

1. 商品名称:椰油酰胺丙基甜菜碱(CAB-30)

2. 英文名称: Cocamidopropyl Betaine

3. 化学结构式: $\text{RCONH}(\text{CH}_3)_2\text{N}(\text{CH}_3)_2\text{CH}_2\text{COO}^-$; R = coconut oil group

4. 性能及用途:无色或微黄色液体,它不仅具有良好的清洗和发泡性,而且对皮肤和粘膜刺激性低,适用于香波、浴液和婴儿洗涤用品。与阴离子、阳离子和非离子表面活性剂完全相溶;能产生丰富且细密的泡沫,对阴离子表面活性剂有明显的增稠作用;能有效地降低产品中脂肪醇酸硫酸盐的刺激性,比BS-12性能更为柔和。

5. 技术指标

项目	外观 (25°C)	活性物/%	氯化钠/%<	pH值(5%水溶液25°C)	颜色/Hazen (stock solution)≤	游离叔胺/%<	羟基乙酸/%≤	氯乙酸/mg/kg <
指标	30%							
一等品	无色至淡黄色透明粘稠液体	30.0±1.0	6	4.5~7.0	100	0.5	0.5	10
合格品		30.0±2.0	7	4.5~8.0	150	1	0.7	20

6. 包装和储存:200Kg/桶,小口塑料桶包装,应储存于阴凉干燥处,避免日晒雨淋。

7. 保质期:在正常包装及储运情况下,自产品包装日起保质期为一年

5.10. Cocamidopropyl Betaine (CAB-30)

1. Product name: Cocamidopropyl Betaine (CAB-30)

2. English name: Cocamidopropyl Betaine

3. Chemical structural formula: $\text{RCONH}(\text{CH}_3)_2\text{N}(\text{CH}_3)_2\text{CH}_2\text{COO}^-$; R = coconut oil group

4. Performance and use: Colorless or light yellow liquid, it not only has good cleaning and foaming properties, but also has low irritation to skin and mucous membranes, suitable for shampoo, bath liquid and baby washing products. It is completely compatible with anionic, cationic and nonionic surfactants; it can produce rich and fine foam, and has obvious thickening effect on anionic surfactants; it can effectively reduce the irritation of fatty alkyl sulfate in products, BS-12 performance is softer

5. Technical indicators

project	Appearance (25°C)	Active matter/%	Sodium chloride/%<	PH value (5% aqueous solution 25°C)	Color/Hazen (stock solution)≤	Free tertiary amine/%<	Glycolic acid/%≤	Chloroacetic acid/mg/kg <
Index	30%							
First grade	Colorless to light yellow transparent viscous liquid	30.0±1.0	6	4.5~7.0	100	0.5	0.5	10
Qualified product		30.0±2.0	7	4.5~8.0	150	1	0.7	20

6. Packaging and storage: 200Kg/barrel, packed in a small mouth plastic barrel, should be stored in a cool and dry place, away from the sun and rain

7. Shelf life: Under normal packaging, storage and transportation, the shelf life is one year from the product packaging date

VI. 葡萄糖苷类(APG)产品/Glucoside (APG) products

1. 英文名称: Alkyl glucoside

2. 化学结构式: $(C_6H_{11}O_5)_nOR$; $R=C_8-C_{14}$; $n=1.3-1.5$

3. 性能及用途: 常温为淡黄色粘稠液体。兼具普通非离子和阴离子表面活性剂的特性, 易溶于水, 表面张力低, 泡沫丰富细腻而稳定, 耐强碱强酸、润湿力强, 可与多种表面活性剂复配, 协同。可生物降解。

产品	泡沫			润湿			乳化		表面张力 mN/m	CMC mg/L
指标	330"	3'	5'	1.5g/L	最大浓度 (g/L)	最小浓度 (g/L)	液体石蜡	柴油		
APG0810	75	17	2	23.8	3.5	0.5	3'56"	5'51"	29.41	823
APG1214	120	85	45	14.3	10	0.5	2'29"	12'18"	27.6	33.5
APG0814	203	165	134	18.17	5.5	0.5	3'20"	7'32"	28.88	40.9
APG08-Z	70	15	2	>300	4.0	1.5	1'40"	2'57"	31.86	
APG10	90	20	2	7	2.0	0.5	7'12"	5'51"	25.28	
APG08-Y	-	-	-	>300	7.5	2.0	2'21"	1'22"	30.45	

七、包装和储存: 净重50kg或180kg/桶或根据客户要求包装。置于通风干燥处、勿与强碱混放。

VI. 葡萄糖苷类(APG)产品/Glucoside (APG) products

1. English name: Alkyl glucoside

2. Chemical structural formula: $(C_6H_{11}O_5)_nOR$; $R=C_8-C_{14}$; $n=1.3-1.5$

3. Performance and use: It is light yellow viscous liquid at room temperature. It has the characteristics of both ordinary non-ionic and anionic surfactants, easily soluble in dry water, low surface tension, rich, delicate and stable foam, strong alkali and acid resistance, strong wetting power, and can be compounded with a variety of surfactants to synergize. Biodegradable.

Product	Foam			Moisten			Emulsification		Surface tension mN/m	CMC mg/L
Index	330"	3'	5'	1.5g/L	Maximum concentrati on (g/L)	Minimum concentrati on (g/L)	liquid paraffin	diesel fuel		
APG0810	75	17	2	23.8	3.5	0.5	3'56"	5'51"	29.41	823
APG1214	120	85	45	14.3	10	0.5	2'29"	12'18"	27.6	33.5
APG0814	203	165	134	18.17	5.5	0.5	3'20"	7'32"	28.88	40.9
APG08-Z	70	15	2	>300	4.0	1.5	1'40"	2'57"	31.86	
APG10	90	20	2	7	2.0	0.5	7'12"	5'51"	25.28	
APG08-Y	-	-	-	>300	7.5	2.0	2'21"	1'22"	30.45	

7. Packaging and storage: net weight 50kg or 180kg/barrel or according to customer requirements. Store in a ventilated and dry place, do not mix with strong alkali

VII. 醇醚糖苷类(AEG)产品/Alcohol Ether Glycoside (AEG) Products

1. 英文名称: Alkyl Ethoxy Polyglycosides

2. 化学结构式: $(C_6H_{11}O_5)_xO(-CH_2CH_2O)_yR$; $R=C_{12}$; $x=1.3-1.5$; $y=3-5$

3. 性能及用途

a. AEG050产品是醇醚糖苷AEG系列产品中性能最为温和的产品, 泡沫适中稳定、增稠效果明显且具有优良的润湿渗透性, 广泛适用于各类家庭洗涤剂及卫生防疫、工业清洗、轻纺助剂、水基农药、矿物浮选、金属加工助剂、采油助剂与油降粘等。

b. AEG300产品具有突出的增溶、乳化及增稠、稳泡性能, 适用于餐具洗涤剂、果蔬清洗剂、奶瓶清洗剂等领域, 其对去除农药残留有特效。

c. AEG500产品泡沫低于APG系列, 增稠性能明显, 水溶性良好、耐硬水, 且各项去污值优于APG产品, 适用于衣物洗涤剂等功能性产品。

产品	泡沫			润湿			乳化		表面张力 mN/m
指标	330"	3'	5'	1.5g/L	最大浓度 (g/L)	最小浓度 (g/L)	液体石蜡	柴油	
AEG300	75	60	40	15.3	4.0	0.5	4'13"	8'13"	28.43
AEG500	55	30	10	11.7	3.5	0.5	4'45"	7'30"	28.27
AEG050	71	50	40	16.1	4.0	0.5	3'09"	9.04"	27.65

4. 包装和储存: 净重50kg或180kg/桶或根据客户要求包装。置于通风干燥处、勿与强碱混放。

VII. 醇醚糖苷类(AEG)产品/Alcohol Ether Glycoside (AEG) Products

1. English name: Alkyl Ethoxy Polyglycosides

3. Chemical structural formula: $(C_6H_{11}O_5)_xO(-CH_2CH_2O)_yR$; $R=C_{12}$; $x=1.3-1.5$; $y=3-5$

4. Performance and usage

a. AEG050 product is the mildest product in the alcohol ether sugar shake AEG series products. It has moderate and stable foam, obvious thickening effect and excellent wetting and permeability. It is widely used in various household detergents, sanitation and epidemic prevention, and industrial cleaning, textile auxiliaries, water-based pesticides, mineral flotation, metal processing auxiliaries, oil production auxiliaries and oil viscosity reduction, etc.

b. AEG300 product has outstanding solubilizing, emulsifying, thickening, and foam stabilizing properties. It is suitable for dishwashing detergent, fruit and vegetable cleaning agent, baby bottle cleaning agent and other fields. It has special effects on removing pesticide residues.

c. The foam of AEG500 product is lower than that of APG series. It has obvious thickening performance, good water solubility and hard water resistance, and its decontamination value is better than that of APG product. It is suitable for functional products such as laundry detergent.

Product	Foam			Moisten			Emulsification		Surface tension mN/m
index	330"	3'	5'	1.5g/L	Maximum concentration (g/L)	Minimum concentration (g/L)	liquid paraffin	Diesel fuel	
AEG300	75	60	40	15.3	4.0	0.5	4'13"	8'13"	28.43
AEG500	55	30	10	11.7	3.5	0.5	4'45"	7'30"	28.27
AEG050	71	50	40	16.1	4.0	0.5	3'09"	9.04"	27.65

5. Packaging and storage: net weight 50kg or 180kg/barrel or according to customer requirements. Store in a ventilated and dry place, do not mix with strong alkali

VIII.醇醚羧酸盐类(AEC)产品/Alcohol Ether Carboxylate (AEC) Products

1. 化学结构式: $R-C(OCH_2CH_2)_nOCH_2COONa$

2. 性能特点:

a. 卓越的增溶性能, 适于配制功能性透明产品。

b. 良好的去污性、润湿性、乳化性、分散性和钙皂分散力。

c. 良好的发泡性和泡沫稳定性, 发泡力不受水的硬度和介质PH的影响对眼睛和皮肤非常温和, 并能显著改善配方的温和性。耐硬水、耐酸碱、耐电解质、耐高温、对次氯酸钠和过氧化物稳定, 具有良好的配伍性能, 能与任何离子型表面活性剂配伍, 尤其对阳离子的调理性能没有干扰。

d. 易生物降解, OECD验证实验的降解率为98%。无毒、无刺激, 使用安全, LD50值为3000~4000mg/kg

3. 应用领域:

a. 作为乳化剂或助乳化剂用于膏状化妆品;

b. 温和型香波、沐浴液、洗面奶、洗手液等个人清洁保护用品;

c. 配入皂块中改善温和性、钙皂分散力、泡沫性能和浴感;

d. 用于家用洗涤剂、工业清洗剂和无磷洗涤剂;

e. 因该产品具有耐强酸碱, 耐高温, 乳化, 润湿分散性好的特点, 广泛应用于印染行业的前处理精炼漂白, 丝光等工艺过程, 能显著提高毛效和白度, 可在染料配方中改善染色行为和稳定性;

f. 因其优异的钙皂分散力, 大量应用于水基金属切削液中, 能显著提高乳化效果和稳定性;

g. 作为耐高温、耐高浓度电解质的乳化剂和降粘剂应用于三次采油和石油输送, 提高原油采收率和防蜡析;

h. 造纸工业中用于废纸脱墨和柔软剂配方中;

项目	AEC-9Na (type 28)	AEC-9Na (type 98)	AEC-9H (Type 88)
外观 (25 °C)	透明液体	浅色固体	透明液体
固含量 /%	28±1	98±2	88±2
氯化钠含量 /%	2±0.5	9±1	<0.5
pH值(10%水溶液25°C)	11.5-12.5	11.5-12.5	2±1
氯乙酸 /%	<0.0006	<0.001	<0.002

4. 包装和储存: 净重50kg或180kg/桶或根据客户要求包装。置于通风干燥处、勿与强碱混放。

VIII.醇醚羧酸盐类(AEC)产品/Alcohol Ether Carboxylate (AEC) Products

1. Chemical structural formula: $R-C(OCH_2CH_2)_nOCH_2COONa$

2. Performance characteristics:

a. Excellent solubilization performance, suitable for formulating functional transparent products.

b. Good decontamination, wetting, emulsifying, dispersing and calcium soap dispersing power.

c. Good foaming and foam stability, the foaming power is not affected by the hardness of water and the pH of the medium, very mild to eyes and skin, and can significantly improve the mildness of the formula. It is resistant to hard water, acid and alkali, electrolyte, high temperature, stable to sodium hypochlorite and peroxide, has good compatibility, can be compatible with any ionic surfactant, especially does not interfere with the conditioning performance of cations.

d. Easy to biodegrade, the degradation rate of OECD verification experiment is 98%. Non-toxic, non-irritating, safe to use, LD50 value is 3000~4000mg/kg

3. Application:

a. As an emulsifier or co-emulsifier for cream cosmetics;

b. Mild shampoo, body wash, facial cleanser, hand sanitizer and other personal cleaning and protection products;

c. Mixed into soap bar to improve mildness, calcium soap dispersion, foam performance and bath feeling;

d. Used in household detergents, industrial cleaning agents and phosphorus-free detergents;

e. Because the product has the characteristics of strong acid and alkali resistance, high temperature resistance, emulsification, and good wetting and dispersibility, it is widely used in pretreatment, refining, bleaching, mercerizing and other processes in the printing and dyeing industry, which can significantly improve the capillary effect and whiteness. Improving dyeing behavior and stability in dye formulations;

f. Because of its excellent calcium soap dispersibility, it is widely used in water-based metal cutting fluids, which can significantly improve the emulsification effect and stability.

g. As an emulsifier and viscosity reducer with high temperature resistance and high concentration electrolyte resistance, it is used in tertiary oil recovery and oil transportation to improve crude oil recovery and prevent wax analysis;

h. Used in waste paper deinking and softener formulations in the paper industry;

Item	AEC-9Na (type 28)	AEC-9Na (type 98)	AEC-9H (Type 88)
Appearance (room temperature)	Transparent liquid	light colored solid	Transparent liquid
Solid content (%)	28±1	98±2	88±2
Sodium chloride content (%)	2±0.5	9±1	<0.5
pH value (10% aqueous solution at 25°C)	11.5-12.5	11.5-12.5	2±1
Chloroacetic acid (%)	<0.0006	<0.001	<0.002

4. Packaging and storage: net weight 50kg or 180kg/barrel or according to customer requirements. Store in a ventilated and dry place, do not mix with strong alkali.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.1. 二甲基二烯丙基氯化铵 (DADMAC)

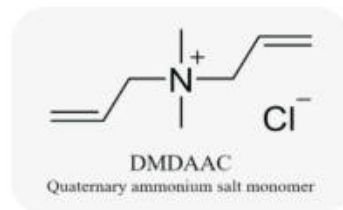
1. 商品名称: 二甲基二烯丙基氯化铵阳离子单体

2. 英文缩写: DADMAC/DMDAAC

3. 化学结构式: $(\text{CH}_3)_2\text{N}^+(\text{CH}_2\text{CH}=\text{CH}_2)_2 \text{Cl}^-$

4. CAS: 7398-69-8

5. 质量标准



项目		质量标准	
外观		无色至浅黄色透明液体	
等级	优等品	一级品	
有效含量 %	65±1	60±1	
pH值	3-7	3-7	
色度/APHA	≤50	≤50	
NaCl,%	≤3	≤3	

6. 产品特性: 二甲基二烯丙基氯化铵是高纯度、聚合级、季铵盐、高电荷密度的阳离子单体, 产品外观为无色透明液体, 常温下性状稳定, 无刺激性气味, 不易水解, 能以任意比率互溶于水。

7. 应用领域: 二甲基二烯丙基氯化铵作为阳离子单体可通过各种聚合反应形成高分子聚合物。其聚合物, 在纺织染整助剂中可作为优质的无醛固色剂, 抗静电剂等系列产品。在造纸助剂中可作为AKD 熟化促进剂, 纸张导电剂等系列产品; 在水处理过程中可用于脱色、絮凝和净化处理; 在日用化学品中, 可用于洗发香波梳理剂、润湿剂和抗静电剂等系列产品; 在油田化学品中, 可用作絮凝剂、粘土稳定剂等。

8. 包装和储存: 125公斤、200公斤或IBC吨桶包装。贮存于阴凉避光处, 防止日晒、暴晒, 避免接触强氧化剂, 贮存期为一年。

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.1. Diallyl dimethyl ammonium chloride (DADMAC)

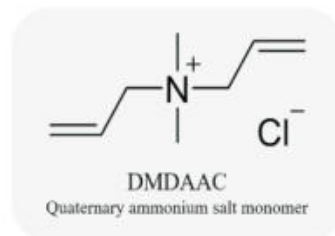
1. Product Name: Diallyl dimethyl ammonium chloride Cationic Monomer

2. Abbreviation: DADMAC/DMDAAC

3. Chemical structural formula: $(CH_3)_2N^+(CH_2CH=CH_2)_2 Cl^-$

4. CAS: 7398-69-8

5. Specification:



Item	Index	
Appearance	Colorless to light yellow transparent liquid	
等级	Top Grade	First Grade
Effective content %	65±1	60±1
pH Value	3-7	3-7
Chroma/APHA	≤50	≤50
NaCl,%	≤3	≤3

6. Property: DADMAC is a kind of high purity, polymer-grade, quaternary ammonium salt and high charge density cationic monomer. It is colorless and transparent liquid, very stable in normal temperature, odorless and unhydrolyzed, and can soluble in water by any ratio.

7. Applications: As a kind of cationic monomer, DADMAC forms the macromolecular polymer by various polymerization reaction. Its polymer can be used as superior formaldehyde-free fixing agent and antistatic agent in the dyeing and finishing auxiliaries for textile and the AKD curing accelerator and paper conductive agent in paper making auxiliaries. It also can be used in the decoloring, flocculation and purification of water treatment. It can be used as the shampoo combing agent, wetting agent and antistatic agent in cosmetic chemicals and also as the flocculating agent and clay stabilizer in oil field chemical.

8. Package and Storage: 125KG/200KG PE Drum or IBC. Keep in cool and dark place, avoid insolation and heat. Avoid contacting strong oxidant, storage period is one year.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.2. 聚季铵盐-6 (PQ-6)

1. 商品名称: 聚二甲基二烯丙基氯化铵-6

2. 化学组成: Poly DADMAC

3. CAS: 26062-79-3

4. 质量标准:

项目	质量标准
外观	无色至浅黄色透明粘稠液体
固含量 %	40 ± 1
pH值	5-8
粘度	5000-15000

5. 应用性能:

- a. 本产品为强阳离子聚合物, 易溶于水, 在PH值很宽的范围内保持很好的稳定性。
- b. 加入到染色剂、漂白剂、蓬松剂、定型剂等护发产品中, 能起到较好的调理性。
- c. 加入到保湿霜、洗手液、沐浴露、剃须膏、除臭剂等护肤产品中能起到很好的保湿性能, 给皮肤优越的润滑感。

6. 参考用量: 在护发产品中, 建议添加量为1-3%; 在护肤产品中, 建议添加量为1-5%。

7. 包装与贮存: 125KG塑桶包装。密封避光贮存, 常温下保质期为一年。

9.2. Polyquaternium-6(PQ-6)

1. Product name: Polyquaternium-6(PQ-6)

2. Chemical ingredients: Poly DADMAC

3. CAS: 26062-79-3

4. Specification:

Item	Index
Appearance	Colorless to light yellow transparent thick liquid
Solid content %	40 ± 1
pH	5-8
Viscosity	5000-15000

5. Application property:

- a. This product is strong cationic polymer and water soluble. It keeps a good stability within a wide range of pH.
- b. If being added in hair care products, such as coloring agent, decolorizer, swelling agent and hair spray, the hair can be taken care better.
- c. If being added in skin care products, such as moisturizer, hand washing liquid, body wash, shaving cream and deodorant, these products will be of a good moisturizing property, which offers a good sense of lubrication to skin.

6. Recommended dosage: In hair care products, suggested dosage is 1~3%; In skin care products, suggested dosage is 1~5%.

7. Package&Storage: 125kg/plastic drum. Storage in sealed and dark condition, storage period is one year at normal temperature.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.3. 聚季铵盐-7 (PQ-7)

1. 商品名称: 聚二甲基二烯丙基氯化铵-7

2. 化学组成: Poly DADMAC

3. CAS: 108464-53-5

4. 质量标准:

项目	质量标准
外观	无色至浅黄色透明粘稠液体
固含量 %	10 ± 1
pH值	5-8
粘度	8000-15000

5. 应用性能:

- 产品用于洗发香波及洗头膏等护发产品中, 能赋予头发极佳的润滑感、保湿性及光泽感。
- 用于沐浴乳、剃须膏、保湿霜剂、除臭剂等护肤产品中, 能起到很好的保湿性能, 给皮肤优越的润滑感。

6. 参考用量: 在护发产品中, 建议添加量为1-3%; 在护肤产品中, 建议添加量为1-5%。

7. 包装与贮存: 50公斤、125公斤或者200公斤塑桶包装。密封避光贮存, 常温下保质期为一年。

9.3. Polyquaternium-7(PQ-7)

1. Product name: Polyquaternium-7(PQ-7)

2. Chemical ingredients: Poly DADMAC

3. CAS: 26062-79-3

4. Specification:

Item	Index
Appearance	Colorless to light yellow transparent thick liquid
Solid content %	40 ± 1
pH	5-8
Viscosity	5000-15000

5. Application property:

- If it is used in hair care products like shampoo, it will offer the hair excellent sense of lubrication, moisture retention and sense of gloss.
- While being used in skin care products, such as body wash, shaving cream, moisturizer and deodorant, these products will be of a good moisturizing property, which offers a good sense of lubrication to skin.

6. Recommended dosage: In hair care products, suggested dosage is 1~3%; In skin care products, suggested dosage is 1~5%.

7. Package&Storage: 50kg、125kg or 200kg per PE Drum. Storage in sealed and dark condition, storage period is one year at normal temperature.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.4. 聚季铵盐-10 (PQ-10)

1. 商品名称: 聚二甲基二烯丙基氯化铵-10

2. CAS: 81859-24-7

3. 质量标准:

项目	质量标准
外观	白色或类白色粉末
氮含量 %	1.6-2.2
粘度	300-500
干燥失重	≤6.0%
灰分 %	≤3.0%

4. 应用性能:

- a. 用于洗发水、护发素、高级液体香皂、沐浴露、洗面奶等。
- b. 修补头发末梢分叉，修复角质层，缓解刺激，有利于角质层的水分吸收。

5. 参考用量: 具体用量取决于各工厂工艺情况不同及通过试样酌情调整具体工艺，以便达到更好效果。

6. 包装与贮存: 25公斤纸板桶，内衬聚乙烯塑料袋包装。密封贮存于阴凉干燥处，常温下保质期为一年。

9.4. Polyquaternium-10(PQ-10)

1. Product name: Polyquaternium-10(PQ-10)

2. CAS: 81859-24-7

3. Specification:

Item	Index
Appearance	White or almost white powder
Nitrogen content %	1.6-2.2
Viscosity	300-500
Loss on drying	≤6.0%
Viscosity	5000-15000

4. Application property:

- a. This product can be used in shampoo, hair conditioner, advanced liquid soap, body wash and facial cleanser, etc.
- b. It can repair split ends and cuticle, reduce simulation and is good at water absorption of cuticle.

5. Recommended dosage: Detailed dosage depends on different techniques of factorles and detailed techniques can be adjusted appropriately through samples so as to achieve better effect.

6. Package&Storage: 25 kg cardboard barrels, lined with polyethylene plastic bag. Storage in sealed and dark condition, storage period is one year at normal temperature.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.5. 聚季铵盐-11 (PQ-11)

1. 商品名称: 聚二甲基二烯丙基氯化铵-11

2. CAS: 53633-54-8

3. 质量标准:

项目	质量标准
外观	无色至浅黄色粘稠液体
固含量 %	20 ± 1
pH值(1%水溶液)	5-7
粘度	20000-70000

4. 应用性能:

a. 本产品可形成透明、无粘性、柔韧的连续薄膜;对头发有亲和性,提供调理及坚挺的效果。

b. 主要应用于摩丝、发胶、调理香波,护发素、染发剂、烫发剂等发用制品中。

5. 参考用量: 具体用量取决于各工厂工艺情况不同及通过试样酌情调整具体工艺,以便达到更好效果。

6. 包装与贮存: 200公斤塑桶包装。密封避光贮存,常温下保质期为一年。

9.5. Polyquaternium-11(PQ-11)

1. Product name: Polyquaternium-11(PQ-11)

2. CAS: 53633-54-8

3. Specification:

Item	Index
Appearance	Colorless to light yellow thick liquid
Solid content %	20 ± 1
pH(1%Aq solution)	5-7
Viscosity	20000-70000

4. Application property:

a. This product is able to form transparent, cohesionless and pliable continuous film. It has affinity to hair and is able to provide conditioning and strong effect.

b. It is mainly used in hair products, such as mousse, hair spray, conditioner shampoo, hair conditioner, hair dye and wave preparation, etc.

5. Recommended dosage: Detailed dosage depends on different techniques of factories and detailed techniques can be adjusted appropriately through samples so as to achieve better effect.

6. Package&Storage: 200kg/PE Drum. Storage in sealed and dark condition, storage period is one year at normal temperature.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.6. 聚季铵盐-22 (PQ-22)

1. 化学组成: 二甲基二烯丙基氯化铵/丙烯酸共聚物-22

2. CAS: 53694-17-0

3. 质量标准:

项目	质量标准
外观	无色至浅黄色粘稠液体
固含量 %	40 ± 0.5
pH值(1%水溶液)	5-7
粘度	2000-7000

4. 应用性能:

a. 在香波、护发素和定型助剂等护发产品中作蓬松剂、漂白剂、染色剂。

b. 在护肤品中, 主要用在保湿霜、洗手液、沐浴露、液体香皂、皂条、剃须膏、止汗药、除臭剂等制品中。

5. 参考用量: 在护发产品中, 建议添加量1~3%; 在护肤产品中, 建议添加量1~2%。

6. 包装与贮存: 125KG 塑桶包装。密封避光贮存, 常温下保质期为一年。

9.6. Polyquaternium-22(PQ-22)

1. Product name: DADMAC/Acrylic acid copolymer-22

2. CAS: 53694-17-0

3. Specification:

Item	Index
Appearance	Colorless to light yellow thick liquid
Solid content %	40 ± 0.5
pH(1%Aq solution)	5-7
Viscosity	2000-7000

4. Application property:

a. In hair care products, it is used as swelling agent, decolorizer and coloring agent in shampoo, hair conditioner and hair spray assistant, etc.

b. In skin care products, it is mainly used in moisturize, hand washing liquid, body wash, liquid soap, soap slab, shaving cream, antiperspirant and deodorant, etc.

5. Recommended dosage: In hair care products, suggested dosage is 1~3%; In skin care products, suggested dosage is 1~2%

6. Package&Storage: 125kg/PE Drum. Storage in sealed and dark condition, storage period is one year at normal temperature.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.7. 聚季铵盐-39 (PQ-39)

1. 化学组成: 二甲基二烯丙基氯化铵/丙烯酸/丙烯酰胺共聚物-39

2. CAS: 25136-75-8

3. 质量标准:

项目	质量标准
外观	无色至浅黄色粘稠液体
固含量 %	10 ± 0.5
pH值(1%水溶液)	5-7
粘度	6000-15000

4. 应用性能:

a. 在香波、护发素和定型助剂等护发产品中作蓬松剂、漂白剂、染色剂。

b. 在护肤品中, 主要用在保湿霜、洗手液、沐浴露、液体香皂、皂条、剃须膏、止汗药、除臭剂等制品中。

5. 参考用量: 在护发产品中, 建议添加量2~4%; 在护肤产品中, 建议添加量1~3%。

6. 包装与贮存: 125KG 塑桶包装。密封避光贮存, 常温下保质期为一。

9.7. Polyquaternium-39(PQ-39)

1. Product name: DADMAC/Acrylic acid/Acrylamide copolymer-39

2. CAS: 25136-75-8

3. Specification:

Item	Index
Appearance	Colorless to light yellow thick liquid
Solid content %	10 ± 0.5
pH(1%Aq solution)	5-7
Viscosity	6000-15000

4. Application property:

a. In hair care products, it is used as swelling agent, decolorizer and coloring agent in shampoo, hair conditioner and hair spray assistant, etc.

b. In skin care products, it is mainly used in moisturize, hand washing liquid, body wash, liquid soap, soap slab, shaving cream, antiperspirant and deodorant, etc.

5. Recommended dosage: In hair care products, suggested dosage is 1~3%; In skin care products, suggested dosage is 1~2%.

6. Package&Storage: 125kg/PE Drum. Storage in sealed and dark condition, storage period is one year at normal temperature.

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.8. 阳离子高分子絮凝剂 (PQF-1)

1. 化学组成: 聚二甲基二烯丙基氯化铵

2. CAS: 26062-79-3

3. 质量标准:

Item	质量标准
外观	无色至淡黄色透明粘稠液体
固含量 %	40 ± 1
pH值	3-7
粘度	≥100,000
残余单体 %	≤3.0

4. 应用性能:

- 本产品在水处理中, 具有强阳离子聚电解质和吸附架桥作用。
- 本产品特别对于河水汛期中高浊度原水、原油脱水及城市含油污水处理, 具有明显效果。
- 本产品应用于饮用水、回用水、洗煤废水、采矿和矿物废水等中具有良好的絮凝沉降性能, 在脱色、杀藻、去除有机物等方面也有明显效果。
- 阳离子高分子絮凝剂与无机絮凝剂复配使用, 效果更佳显著。

5. 参考用量:

- 使用时应先将本产品配置成1-10%水溶液, 然后与无机絮凝剂30%水溶液配制。
- 上机前先进行小试试验, 以确定应用方式和投加量。

6. 包装与贮存: 50公斤或125公斤塑料桶。密封包装, 避免接触强氧化剂, 保质期为一年。

IX. 聚季铵盐类产品/Poly Quaternary Ammonium Products

9.8.Cationic high molecule flocculant (PQF-1)

1. Chemical ingredients: PolyDADMAC

2. CAS: 26062-79-3

3. Specification:

Item	Index
Appearance	Colorless to light yellow transparent thick liquid
Solid content %	40 ± 1
pH value	3-7
Viscosity	≥100,000
The residual monomers %	≤3.0

4. Application Property:

- It is of the strong cation of electrolyte polymerization and bridging absorption in waste water treatment.
- This product has significant effect on water treatment, especially for the treatment of high turbidity water, crude oil dehydration and treatment of oil urban sewage, etc.
- This product has great flocculation and settling properties in wastewater such as potable water, recycling water, coal-washing wastewater, mining and mineral waste water, etc.
- It also has an evident effect on decolorization, algacidal treatment, organic matter removal, etc.
- It can be remixed with inorganic flocculant to have a more remarkable effect.

5. Recommended dosage:

- Before using, it shall be prepared to be 1- 10% aqueous solution, then remixed with 30% inorganic flocculant aqueous solution.
- Sample experiment should be conducted to ensure the application method and the quantity.

6. Package&Storage: 50kg per PE Drum or 125kg/ PE Drum. Store it in sealed and cool condition, avoid contacting with strong oxidants. Storage period is one year.



X. 特种胺/Special Amine

10.1 胺催化剂/Amine Catalysts

化学名 Chemical Name	含量 Purity	CAS NO.	包装 Packing	用途 Application
二甲基环己胺 N,N-Dimethylcyclohexylamine	≥98%	98-94-2	170 KG/ Drum	中等活性硬泡催化剂，具有良好的储存稳定性 Medium activity hard foam catalyst with good storage stability
五甲基二乙烯三胺 N,N,N',N'',N'''-Pentamethyldiethylenetriamine	≥98%	3030-47-5	170 KG/ Drum	高活性硬泡催化剂 Highly active hard foam catalyst
1,3,5-三(二甲基胺丙基)-1,3,5-六氢化三嗪 1,3,5-Tris(3-(dimethylamino)propyl)hexahydro-s-triazine	≥98%	15875-13-5	180 KG/ Drum	用于硬泡的高活性三聚催化剂 Highly active trimerization catalyst for rigid foam
二甲基苄胺 Benzyl dimethylamine	≥99%	103-83-3	180 KG/ Drum	硬泡催化剂 Hard foam catalyst
N,N-二甲胺基乙基-N'-甲基氨基乙醇 N,N-Dimethylaminoethyl-N'-methyl-ethanol	≥98%	2212-32-0	180 KG/ Drum	反应型发泡催化剂，低雾化，适用于软/硬泡 Reactive foaming catalyst, low atomization, suitable for soft/hard foam
2-羟基丙基三甲基铵甲酸盐 (2-Hydroxypropyl) trimethylammonium formate	≥75%	62314-25-4	200 KG/ Drum	用于硬泡的三聚催化剂 Trimerization catalyst for hard foam
四甲基己二胺 N,N,N',N'-Tetramethyl-1,6-hexanedi amine	≥98%	111-18-2	165 KG/ Drum	对热不敏感的硬泡催化剂 Heat-insensitive hard foam catalyst
N,N-二[3-(二甲氨基)丙基]-N',N'-二甲基-1,3-丙二胺 N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine	≥97%	33329-35-0	170 KG/ Drum	用于硬泡的低气味，平衡型催化剂 Low odor, balanced catalyst for hard foam
二甲胺基丙胺二异丙醇 [3-(Dimethylamino)propyl]amino-bis-2-propanol	≥85%	63469-23-8	190 KG/ Drum	反应型凝胶催化剂，低迁移，适用于软泡 Reactive gel catalyst, low migration, suitable for soft foam
五甲基二丙烯三胺 N,N,N',N'',N'''-Pentamethyldipropyl enetriamine	≥98%	3855-32-1	170 KG/ Drum	用于软/硬泡的低气味，平衡型催化剂 Low odor, balanced catalyst for soft/hard foam
四甲基二丙烯三胺异丙醇 N,N-bis(3-dimethylaminopropyl)-N-isopropanol amine	≥92%	67151-63-7	180 KG/ Drum	反应型凝胶催化剂，低迁移，适用于软/硬泡 Reactive gel catalyst, low migration, suitable for soft/hard foam
醋酸钾溶液 Potassium acetate	≥50%	127-08-2	250 KG/ Drum	用于硬泡的三聚催化剂 Trimerization catalyst for hard foam
异辛酸钾溶液 Potassium 2-ethylhexanoate	≥75%	3164-85-0	200 KG/ Drum	用于硬泡的三聚催化剂 Trimerization catalyst for hard foam

X. 特种胺/Special Amine

10.2 特种脂肪胺

化学名	含量	CAS NO.	包装/桶	用途
N,N-二乙基-1,3-丙二胺	99%	104-78-9	165KG	有机合成中间体，涂料催干剂。
3-甲氧基丙胺	99%	5332-73-0	165KG	用于合成分散染料的中间体。
3-异丙氧基丙胺	99%	367-77-8	160KG	有机合成中间体，染料中间体。
3-异辛氧基丙胺	99%	5397-31-9	160KG	染料、有机合成的中间体。
N,N'-双(3-氨基丙基)-乙撑二胺 (N4胺)	95%	10563-26-5	180KG	用于合成抗氧剂和环氧固化剂。
3-氨基丙吗啉	99%	123-00-2	180KG	聚氨酯催化剂。
环戊胺	99%	1003-03-8	160KG	医药中间体。
3-乙氧基丙胺	99.50%	6291-85-6	160KG	染料、有机合成中间体，电子化学品。
三正己胺	97%	102-86-3	160KG	溶剂，有机合成中间体。

10.2 Special fatty amines

Chemical Name	Purity	CAS NO.	Packing /Drum	Application
N,N-Diethyl-1,3-propane diamine	99%	104-78-9	165 KG	Organic synthesis intermediate, paint drier.
3-Methoxy-propylamine	99%	5332-73-0	165 KG	Intermediates for the synthesis of disperse dyes.
3-Aminopropyl isopropyl ether	99%	367-77-8	160 KG	Organic synthesis intermediates, dye intermediates.
3-(2-ethylhexoxy) propylamine	99%	5397-31-9	160 KG	Dyes, intermediates in organic synthesis.
N,N-Bis(3-aminopropyl) ethylenediamine	95%	10563-26-5	180 KG	Used to synthesize antioxidants and epoxy curing agents.
3-Morpholino propylamine	99%	123-00-2	180 KG	Polyurethane catalyst.
Cyclopentanamine	99%	1003-03-8	160 KG	Pharmaceutical intermediates.
3-Ethoxypropylamine	99.50%	6291-85-6	160 KG	Dyes, organic synthesis intermediates, electronic chemicals.
Tri-n-hexylamine	97%	102-86-3	160 KG	Solvent, organic synthesis intermediate.