

Solvay puts into practice a sustainable development policy called **Solvay Way** because we are convinced our future is dependent upon the responsible way in which we conduct our current activities — a way that reflects our commitment to each of our stakeholders. **Solvay Way** encompasses three interlinked, equally important spheres: the Environment Sphere, the People Sphere and the Economic Sphere.

Based on a framework of responsibilities, **Solvay Way** allows Solvay sites and businesses to conduct self—assessments of their practices and establish action plans that promote continuous progress. At Solvay, the way we do business creates sustainable value for all our stakeholders through innovation and partnership.



> Responsible Care is the chemical industry's voluntary continuous improvement initiative to promote safe handling of products. (1987)



> The UN's Global Compact aims to ensure that heads of companies promote and uphold 10 universal principles concerning human rights, Working Conditions, Respect for the environment and anti—corruption. (2003)



> The International Federation of Chemical, Energy, Mine and General Workers' Unions. (2005)



> Solvay Novacare has achieved world—wide ISO—9001 Quality Management System Multi—Site Certification. (2008)



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## Amines Product Guide

Solvay is a multi-specialty chemical company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers in diverse global end markets. Its products and solutions are used in planes, cars, smart and medical devices, batteries, in mineral and oil extraction, among many other applications promoting sustainability. Its lightweighting materials enhance cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality.

Solvay is headquartered in Brussels with around 27,000 employees in 58 countries. Net sales were € 10.9 billion in 2016, with 90% from activities where Solvay ranks among the world's top three leaders.

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Organic amine chemicals, especially primary, secondary and tertiary amines, are well known for their use as synthesis intermediates of cationic, amphoteric and nonionic surfactants. Nowadays, we can use acrylonitrile, hydrogen peroxide, monochloroacetic acid and EO/PO to derivatize amines to give a variety of enhanced properties. These derivatives give a range of different properties to the amine functionality including mildness, surface activity, solubility and enhanced reactivity.

### Experience in the Market

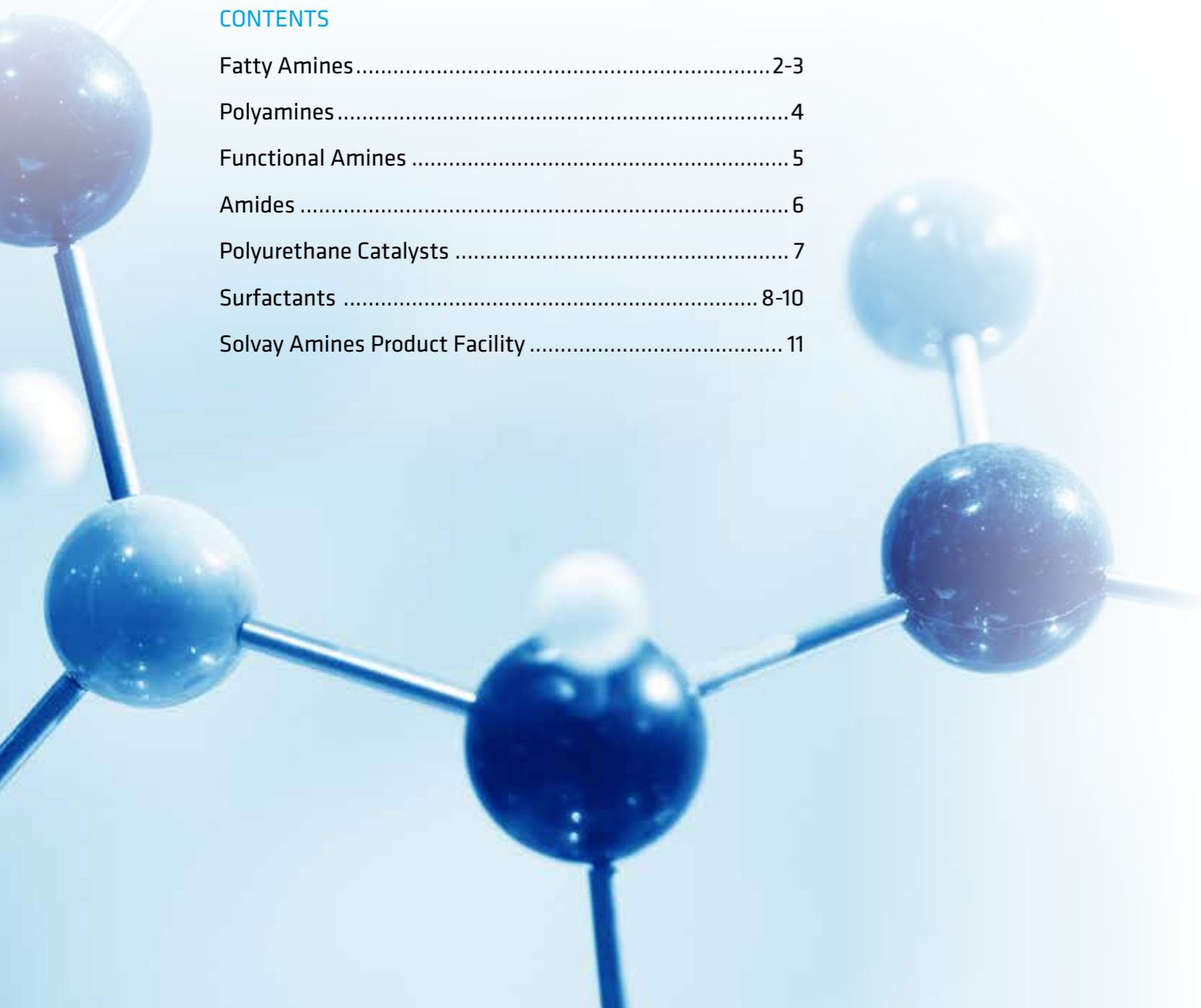
Solvay holds a leading position in Asia Pacific for its development and production of fatty and functional amines. Our extensive experience in the market allows us to work with our customers in creating new opportunities to fit their ever changing business activities.

### State-of-the-art Manufacturing Process

Up to date, efficient facilities coupled with our experience enable us to consistently develop high quality products. In addition, the R&D facilities give us strength in the development of new products.

### Flexibility

Our product range include C8 to C22 chain lengths for fatty amines; primary to tertiary amines. We use acrylonitrile or methylamines as feedstock which gives us strength in the C3 range of functional amines.





## FATTY AMINES

Solvay produces a wide range of fatty amines based on the feedstock of single or mixed cut fatty acids and fatty alcohols, ranging from C8 to C22. By using two process chemistries based on nitrile and direct amination technology, world scale volumes of various primary, secondary and tertiary fatty amines are produced in our plant.

These fatty amines are extremely versatile and commonly applied as the reactive intermediates for the synthesis of other functional chemicals such as surfactants, detergents, softeners, anti-static agents, antimicrobial agents, etc.

Some of them are also directly used in many industry processes such as froth flotation, anti-caking, rheology modification, oil drilling, pigment dispersing, etc.



Primary Amine			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® A8	Octylamine	111-86-4	98
FENTAMINE® A10	Decylamine	2016-57-1	98
FENTAMINE® A12	Laurylamine	124-22-1	98
FENTAMINE® ACO	Coco Amines	61788-46-3	98
FENTAMINE® A14	Tetradecylamine	2016-42-4	98
FENTAMINE® A18	Octadecylamine	124-30-1	98
FENTAMINE® AHT	Hydrogenated Tallow Amines	61788-45-2	98
FENTAMINE® A86	Stearylamine	90640-32-7	98
FENTAMINE® AT	Tallow Amines	61790-33-8	98
FENTAMINE® AT E	Tallow Amines(Vegetable Base)	61790-33-8	98
FENTAMINE® AO V	Oleylamine	112-90-3	98
FENTAMINE® AE	Erucylamine	26398-95-8	98

Secondary Amines			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® SA86	Distearylamine	68037-98-9/112-99-2	88
FENTAMINE® SA1010	Didecylamine	1120-49-6	88
FENTAMINE® SACO	Dicoco Amines	61789-76-2	90

Tertiary Amines - Monoalkyl			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE DMA897	Octyl Dimethylamine	7378-99-6	97
FENTAMINE DMA810	Octyl/Decyl Dimethylamines	7378-99-6/1120-24-7	97
FENTAMINE DMA818	Cocoalkyl Dimethylamines	61788-93-0	98
FENTAMINE® DMA1095	Decyl Dimethylamine	1120-24-7	98
FENTAMINE® DMA1297	Dodecyl Dimethylamine	112-18-5	98
FENTAMINE® DMA1497	Tetradecyl Dimethylamine	112-75-4	98
FENTAMINE® DMA1697	Hexadecyl Dimethylamine	112-69-6	98
FENTAMINE® DMA1895	Octadecyl Dimethylamine	124-28-7	98
FENTAMINE® DMA1270	Dodecyl/Tetradecyl Dimethylamines	84649-84-3	98
FENTAMINE® DMA1265	Dodecyl/Tetradecyl Dimethylamines	84649-84-3	98
FENTAMINE® DMA1263	Dodecyl/Tetradecyl Dimethylamines	68439-70-3	98
FENTAMINE® DMA1450	Dodecyl/Hexadecyl Dimethylamines	68439-70-3	98
FENTAMINE® DMA121416	Dodecyl/Hexadecyl Dimethylamines	68439-70-3	98
FENTAMINE® DMA1218	Dodecyl/Octadecyl Dimethylamines	61788-93-0	98
FENTAMINE® DMA1460	Dodecyl/Octadecyl Dimethylamines	68391-04-8	98
FENTAMINE® DMA1618	Hexadecyl/Octadecyl Dimethylamines	68390-97-6	98
FENTAMINE® DMA1816	Octadecyl/Hexadecyl Dimethylamines	68390-97-6	98
FENTAMINE® DMA2275	Octadecyl/Behenyl Dimethylamines	124046-42-0	97
FENTAMINE® DMA2280	Octadecyl/Behenyl Dimethylamines	124046-42-0	97
FENTAMINE® DMA2290	Behenyl Dimethylamine	21542-96-1	97
FENTAMINE® DMAO	Oleyl Dimethylamine	14727-68-5	96

Tertiary Amines - Dialkyl			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® MA88	Diocetyl Methylamine	4455-26-9	95
FENTAMINE® MA810	Di(Octyl/Decyl) Methylamines	308062-61-5	95
FENTAMINE® MA1010	Didecyl Methylamine	7396-58-9	97
FENTAMINE® MA1212	DiDodecyl Methylamine	2915-90-4	97
FENTAMINE® MA1616	Dihexadecyl Methylamine	16724-61-1	97
FENTAMINE® MADHT	Di(Hydrogenated Tallowalkyl) Methylamines	61788-63-4	97
FENTAMINE® MADHT V	Di(Hydrogenated Tallowalkyl) Methylamines	61788-63-4	97
FENTAMINE® MADCO	Dicocoalkyl Methylamines	61788-62-3	95

Tertiary Amines - Trialkyl			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® TA8	Triocetylamine	1116-76-3	95
FENTAMINE® TA0810	Tri(Octyl/Decyl)Amines	68814-95-9	95

- ▶ Intermediates
- ▶ Asphalt Emulsifier
- ▶ Corrosion Inhibitors
- ▶ Anti-Caking Agent
- ▶ Fiber Softener
- ▶ Fiber Detergents
- ▶ Flotation Collector
- ▶ Oil Drilling Lubricants
- ▶ Flotation Agents
- ▶ Emulsifying Agent
- ▶ Anti-Static Agents

## POLYAMINES

As one of the major derivatives of primary fatty amines, polyamines products are seen as a family of amine chemicals with great potential to be used in many applications as process additives.

Their multi-amino group functionality gives several possibilities to extend to multi-branched and functional chemical structures by reacting with ethylene oxide or chloroacetate.

These derivatives are commonly used as high efficiency lubricants, emulsifiers, anti-bacterial agents and dispersants.



## FUNCTIONAL AMINES

Our functional amines are predominantly based on the feedstock of methyl amines, acrylonitrile and ethylene/propylene oxide. This gives us strength in the C3 range of functional amines, such as DMAPA, MOPA and ethanol amines (NMEA, DMEA, MDEA, DMAEE).

Our advanced synthesis technology and flexible manufacturing units also help us to extend the functional amine product portfolio to a wider range including polyamines, ether amines and amides. These products are mostly used as process additives in applications such as refinery works, gas treating, electroplating, mineral extraction, printing, plant protection, etc.



Diamine			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® DA1214	Dodecyl/Tetradecyl 1,3-Propanediamines	5538-95-4	90
FENTAMINE® DACO	N-Cocoalkyl 1,3-Propanediamines	61791-63-7	90
FENTAMINE® DAHT	N-(Hydrogenated Tallowalkyl) 1,3-Propanediamines	68603-64-5	90
FENTAMINE® DAT	N-Tallowalkyl 1,3-Propanediamines	61791-55-7	90
FENTAMINE® DA86	N-Stearyl 1,3-Propanediamine	4253-76-3	90
FENTAMINE® DAO	N-Oleyl 1,3-Propanediamine	7173-62-8	90
FENTAMINE® DA102	1,10-Decanediamine	646-25-3	98.5
FENTAMINE® DA122	1,12-Dodecanediamine	2783-17-7	98

Tri & Tetra-amine			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® DPTA	Dipropylenetriamines	56-18-8	98
FENTAMINE® DPTA T	N-Tallowalkyl Dipropylenetriamines	61791-57-9	–
FENTAMINE® DPTA O	N-Oleyl Dipropylenetriamines	28872-01-7	–
FENTAMINE® DPTA Y12	N,N-Bis-(3-Aminopropyl)-Dodecylamines	2372-82-9	–
FENTAMINE® DPTA YT	N,N-Bis-(3-Aminopropyl)-Tallowalkylamines	85632-63-9	–
FENTAMINE® DMAPAPA	N'-(3-Aminopropyl)-N,N-Dimethylpropane-1,3-diamine	10563-29-8	95
FENTAMINE® TPTA	Tripropylenetetramines	4605-14-5	90
FENTAMINE® TPTA T	N-Tallowalkyl Tripropylenetetramines	68911-79-5	–
FENTAMINE® TPTA O	N-Oleyl Tripropylenetetramines	67228-83-5	–

- ▶ Intermediates for Nonionic Surfactants
- ▶ Bitumen Emulsifier
- ▶ Lubricants
- ▶ Pigment Dispersing

Ether Amine			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® LPA10	3-Decyloxy 1-Propylamine	7617-78-9	96
FENTAMINE® OPA10	3-Isodecyloxy 1-Propylamine	30113-45-2	96

Ether Diamine			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® OPDA10	Isodecyloxypropyl-1,3-Diaminopropane	72162-46-0	–
FENTAMINE® OPDA13	Isotridecyloxypropyl-1,3-Diaminopropane	68479-04-9	–
FENTAMINE® LPDA1214	Dodecyl/Tetradecyloxypropyl-1,3-Diaminopropane	68187-46-2	–

Alkanol Amines			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® NMEA	N-Methyl Ethanolamine	109-83-1	99
FENTAMINE® MDEA	N-Methyl Diethanolamine	105-59-9	99
FENTAMINE® DMEA	N,N-Dimethyl Ethanolamine	108-01-0	99

Functional Amines			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® PDA	1,3-Propyldiamine	109-76-2	99
FENTAMINE® DMAPA	3-Dimethylamino 1-Propylamine	109-55-7	99.5
FENTAMINE® MOPA	3-Methoxy 1-Propylamine	5332-73-0	99
FENTAMINE EOPA	3-Ethoxy 1-Propylamine	6291-85-6	98
FENTAMINE EHOPA	3-[(2-Ethylhexyl)oxy] Propylamine	5397-31-9	98
FENTAMINE® DBAPA	Dibutylamino 1-Propylamine	102-83-0	99
FENTAMINE® DEAPA	3-Diethylamino 1-Propylamine	104-78-9	99
FENTAMINE® TMEDA	N,N,N',N'-Tetra-Methyl-Ethylene-Diamine	110-18-9	99
FENTAMINE® TMPDA	N,N,N',N'-Tetramethyl-Propyldiamine	110-95-2	99

- |                                |                                     |                        |
|--------------------------------|-------------------------------------|------------------------|
| ▶ Dyestuff Intermediates       | ▶ Gas Treating                      | ▶ PU Catalyst          |
| ▶ Chelating Agent              | ▶ Water Treatment                   | ▶ Intermediates        |
| ▶ Intermediates for Pesticide  | ▶ Epoxy Resin Curing Agents         | ▶ Corrosion Inhibitors |
| ▶ Ion exchange resin activator | ▶ Intermediates for Pharmaceuticals | ▶ Extracting Solvents  |
| ▶ Desulfurizing agent          | ▶ pH Buffering Agents               | ▶ Solvents             |
|                                | ▶ Anti-Static Agents                |                        |



## AMIDES

Fatty acid is a common feedstock for the production of amine intermediates. This is not only relevant to the nitrile route to make the primary fatty amines but also includes amidation of acid to form amides. These amides are seen as special reactive intermediates for the production of cationic and amphoteric surfactants and we also find broad uses of these chemicals due to its solvency and lubrication properties.



## POLYURETHANE CATALYSTS

Polyurethane catalyst is one of the most important additives of polyurethane foam. Different blow and gel balance is required for different foam system. It can balance blow and gel reactivity and improve product quality by adjusting proper amine catalysts combination. Solvay amine catalysts can be applied to flexible, rigid and semi-rigid formulation. Solvay also offer low odor, reactive type and low emission special amine catalysts for high-end application such as automotive, furniture, etc.



Amido Amines			
Trade Name	Chemical Name	CAS No.	%
FENTAMINE® PKO1218H	N-3-(Hydrogenated Cocoamido) Propyl Dimethylamines	288095-05-6	97
FENTAMINE® PKO12	N-3-Laurylamidopropyl Dimethylamine	3179-80-4	97
FENTAMINE® PKOO	N-3-Oleylamidopropyl Dimethylamine	109-28-4	97
FENTAMINE® PKOE	N-3-Erucylamidopropyl Dimethylamine	60270-33-9	97

- ▶ Intermediates for CAPB
- ▶ Agrochemicals
- ▶ Cleansing
- ▶ Foam Booster

Trade Name	Chemical Name	Abbreviation	CAS No.	Structure
FENTACAT™ 5	Pentamethyl-Diethylene-Triamine	PMDETA	3030-47-5	
FENTACAT™ 8	Dimethyl-Cyclohexylamine	DMCHA	98-94-2	
FENTACAT™ 9	Bis(3-dimethyl-aminopropyl)-N,N-Dimethylpropane-Diamine	-	33329-35-0	
FENTACAT™ 10	1-[Bis[3-(Dimethylamino)-Propyl]Amino]-2-Propanol	-	67151-63-7	
FENTACAT™ 11	N,N-Dimethyl-N',N'-Bis (2-Hydroxypropyl)-1,3-Propanediamine	DPA	63469-23-8	
FENTACAT™ 15	N,N,N',N'-Tetra-Methyl-Dipropyl-Triamine	-	6711-48-4	
FENTACAT™ BDMA	Benzyl dimethylamine	BDMA	103-83-3	
FENTACAT™ DMAEE	Dimethylamino-Ethoxyethanol	DMAEE	1704-62-7	
FENTACAT™ TMAEEA	N,N,N'-Trimethyl-Amino-Ethyl-Ethanol-Amine	TMAEEA	2212-32-0	
FENTACAT™ 41	N,N',N''-Dimethylaminopropyl-Hexahydrotriazine	-	15875-13-5	
FENTACAT™ 50	Pentamethyl-Dipropylene-Triamine	-	3855-32-1	
FENTACAT™ D89	N,N-Dimethyl-Aminoethanol	DMEA	108-01-1	
FENTACAT™ F1	70% Bis-(2-Dimethyl-Aminoethyl) Ether In Dipropylene Glycol	70% BDMAEE	3033-62-3	
FENTACAT™ F33	33% Triethylenediamine In Dipropylene Glycol	TEDA	280-57-9	
FENTACAT™ F99	Bis-(2-Dimethyl-Aminoethyl) Ether	BDMAEE	3033-62-3	
FENTACAT™ M2	2-Hydroxypropyl Trimethylammonium Formate In Diethylene Glycol	TMR-2	62314-25-4	

- ▶ Rigid PU Foam
- ▶ Flexible PU Foam
- ▶ Moulding PU foam
- ▶ PU CASE

## SURFACTANTS

Solvay produce different types of surfactants, including cationic, nonionic, and amphoteric surfactants. These products can be used as biocides, emulsifiers, detergents, antistatic agents and organoclay modifiers. They are widely used in industrial, agricultural, coating, home & personal care and oil fields applications.



Cationic Surfactant			
Trade Name	Chemical Name	CAS No.	%
<b>Quaternary Ammonium - Alkyltrimethyl</b>			
FENTACARE® 1231	Dodecyl Trimethyl Ammonium Chloride	112-00-5	30, 37, 50, 70
FENTACARE® 1631	Hexadecyl Trimethyl Ammonium Chloride	112-02-7	30, 50, 70
FENTACARE® 1831	Octadecyl Trimethyl Ammonium Chloride	112-03-8	30, 50, 70

Quaternary Ammonium -Dialkyldimethyl			
FENTACARE® D0821	Diotyl Dimethyl Ammonium Chloride	5538-94-3	50, 80
FENTACARE® D8021	Di(Octyl/Decyl)Dimethyl Ammonium Chloride	68424-95-3	50, 80
FENTACARE® D1021	Diotyl Dimethyl Ammonium Chloride	7173-51-5	50, 80
FENTACARE® DC021-75	Dicocoalkyl Dimethyl Ammonium Chloride	61789-77-3	75+/-2
FENTACARE® DHT21	Dihydrogenated Tallow Dimethyl Ammonium Chloride	61789-80-8	70, 75

Quaternary Ammonium -Benzylalkyl			
FENTACARE® 1227 C12	Dodecyl Dimethyl Benzyl Ammonium Chloride	139-07-1	40, 45, 80
FENTACARE® 1227 C1214	Dodecyl/Tetradecyl Benzyl Ammonium Chloride	85409-22-9	40, 50, 80
FENTACARE® 1227 MEG	Dodecyl/Tetradecyl Benzyl Ammonium Chloride	85409-22-9	80 MEG
FENTACARE® 1227 W	Dodecyl/Tetradecyl Benzyl Ammonium Chloride	85409-22-9	50 W
FENTACARE® 1227 C121416	C12/C14/C16 Benzyl Ammonium Chloride	68424-85-1	40, 50, 80
FENTACARE® 1827	Hydrogenated Tallow Benzyl Dimethyl Ammonium Chloride	61789-72-8	30, 45, 75
FENTACARE® D1817	Di(Hydrogenated Tallow) Benzyl Methyl Ammonium Chloride	61789-73-9	80-85

► Biocides    ► Anti-Static Agents    ► HPC Intermediates    ► Organoclay Modifier    ► Detergent Softener    ► Emulsifying Agent

Cationic Surfactant			
Trade Name	Chemical Name	CAS No.	%
<b>Fatty Amine Salt</b>			
FENTAMINE® AC-HT	Hydrogenated Tallow Acetate	61790-59-8	95-100
FENTAMINE® AC-T	Tallow Amine Acetate	61790-60-1	95-100
FENTAMINE® AC-12	Lauryl Amine Acetate	2016-56-0	95-100

### ► Flotation Agent

Amphoteric Surfactant			
Trade Name	Chemical Name	CAS No.	%
<b>Amine Oxide</b>			
FENTACARE® OA-12	Lauryl Dimethyl Amine Oxide	1643-20-5	30-32
FENTACARE® OA-1214	Dodecyl/Tetradecyl Dimethyl Amine Oxide	85408-49-7	30-32
FENTACARE® OA-14	Teterdecyl Dimethyl Amine Oxide	3332-27-2	24-26
FENTACARE® OA-LAPO	Laurylamidopropyl Dimethylamine Oxide	61792-31-2	30
FENTACARE® OA-CAPO	Cocoamidopropyl Dimethylamine Oxide	68155-09-9	30, 35
FENTACARE® OA-TAPO	Tallowamidopropyl Dimethylamine Oxide	68647-77-8	50

- Detergent
- Bactericide
- Home & Personal Care Intermediates: Shampoo, Bath, Cosmetics

Betaines			
FENTACARE® BS-12	Dodecyldimethyl Betaine	683-10-3	30+/-1
FENTACARE® CAPB	Cocoamidopropyl Betaine	61789-40-0	30+/-1, 45+/-1
FENTACARE® EAPB	Erucylamido Propyl Betaine	581089-19-2	30+/-1

- Home & Personal Care Intermediates: Shampoo, Bath, Cosmetics



Nonionic Surfactant			
Trade Name	Chemical Name	CAS No.	%
<b>Fatty Amine PEO</b>			
FENTACARE® 1201	N-(2-Hydroxyethyl)-laurylamine	16613-87-9	≥97
FENTACARE® 1202	Bis (2-Hydroxyethyl) Lauryl amine	1541-67-9	≥97
FENTACARE® 1203 (30)	Lauryl Amine Ethoxylate Ether (3EO-30EO)	1541-67-9	≥97
FENTACARE® C02	Bis (2- Hydroxyethyl) Cocoalkyl amine	61791-31-9	≥97
FENTACARE® C03 (30)	Coco Amine Ethoxylate Ether (3EO-30EO)	61791-14-8	≥97
FENTACARE® 1802	Octadecyl Amine Ethoxylate Ether (2EO)	10213-78-2	≥97
FENTACARE® 1803 (30)	Octadecyl Amine Ethoxylate Ether (3EO-30EO)	10213-78-2	≥97
FENTACARE® T02	Tallowalkyl amine Ethoxylate Ether (2EO)	61791-26-2	≥97
FENTACARE® T03 (30)	Tallowalkyl amine Ethoxylate Ether (3EO-30EO)	61791-26-2	≥97
FENTACARE® HT02	Bis (2- Hydroxyethyl) hydrogenated tallow amine	61790-82-7	≥97
FENTACARE® HT03 (30)	Hydrogenated Tallow Amine Ethoxylate Ether (3EO-30EO)	61790-82-7	≥97
FENTACARE® O02	Bis (2- Hydroxyethyl) Oleyl amine	13127-82-7	≥97

- ▶ Emulsifier
- ▶ Antistatic agent
- ▶ Dispersing agent

## Solvay Amines Product Facility

Our fatty amines and functional amines are developed and produced in Solvay's China plants which are located in Zhangjiagang, Zhuhai and Zhuhai.

Our state-of-the-art R&D facilities, production units, highly trained employees and most importantly, our years of experience have enabled us to effectively provide innovative solutions and business opportunities to suit our clients ever changing needs.



