

M e m b r a n e - F o r m i n g C o m p o u n d s

D I A L K Y L A N I O N I C C O M P O U N D S

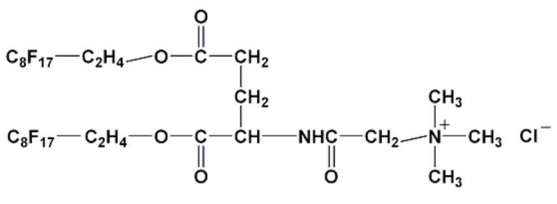
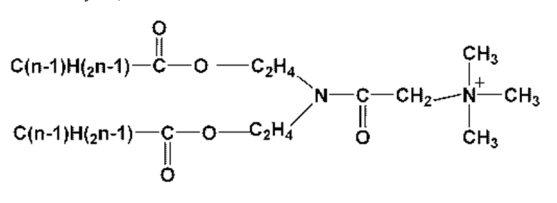
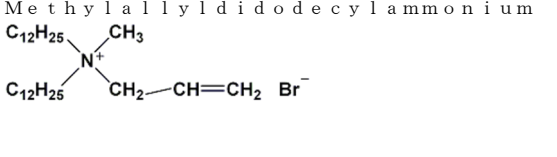
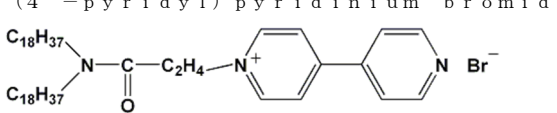
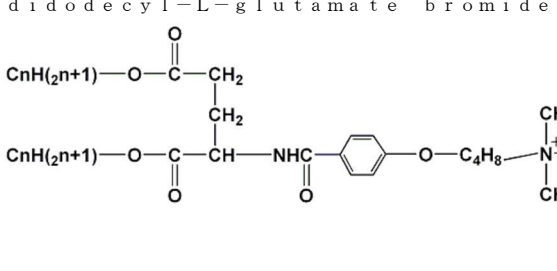
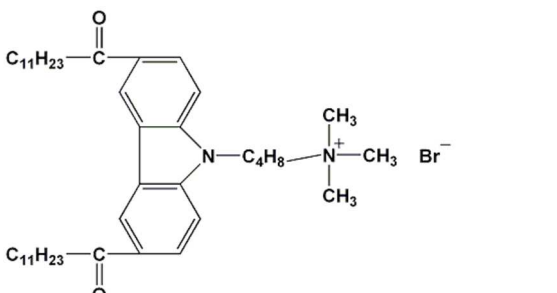
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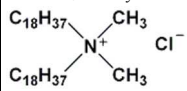
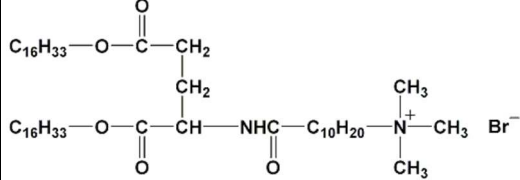
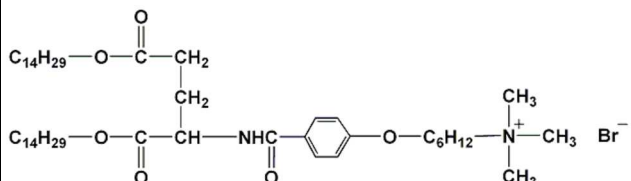
SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T c (°C)	MOLECULAR WEIGHT
DA-1-12 DA-1-18	2C ₁₂ -SUC-SO ₃ ⁻ Na ⁺ 2C ₁₈ -SUC-SO ₃ ⁻ Na ⁺	Sodium 1, 2-bis (dodecyloxy carbonyl) - ethane - 1-sulfonate (n=12) $\begin{array}{c} \text{O} \\ \parallel \\ \text{CnH}_{(2n+1)}-\text{O}-\text{C}-\text{CH}_2 \\ \\ \text{CnH}_{(2n+1)}-\text{O}-\text{C}-\text{CH}-\text{SO}_3^- \text{Na}^+ \\ \parallel \\ \text{O} \end{array}$ <p style="text-align: right;">n = 12, 18</p>	28 56	556.8 725.1
DA-2-14 DA-2-16 DA-2-18	2C ₁₄ O-POOH 2C ₁₆ O-POOH 2C ₁₈ O-POOH	Ditetradecyl phosphate (n=14) $\begin{array}{c} \text{O} \\ \parallel \\ \text{CnH}_{(2n+1)}-\text{O}-\text{P} \\ \quad \diagup \\ \text{CnH}_{(2n+1)}-\text{O} \quad \text{OH} \end{array}$ <p style="text-align: right;">n = 14, 16, 18</p>	54 66 79 (*)	490.7 546.9 603.0

(*) case of Na salt

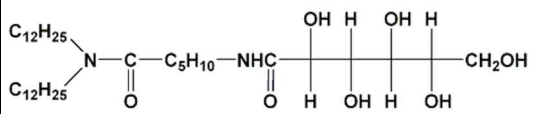
D I A L K Y L C A T I O N I C C O M P O U N D S

SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T c (°C)	MOLECULAR WEIGHT
DC-1-12 DC-1-14 DC-1-16 DC-1-18	2C ₁₂ N ⁺ 2C ₁₄ N ⁺ 2C ₁₆ N ⁺ 2C ₁₈ N ⁺	Dimethyldidodecyl ammonium bromide (n=12) $\begin{array}{c} \text{CH}_3 \\ \\ \text{CnH}_{(2n+1)}-\text{N}^+ \\ \quad \diagup \\ \text{CnH}_{(2n+1)} \quad \text{CH}_3 \end{array} \text{Br}^-$ <p style="text-align: right;">n = 12, 14, 16, 18</p>	16 16 28 40	462.6 518.7 574.9 631.0
DC-2-12	2C ₁₂ N ⁺ C ₂ OH	N-Methyl-N-(β-hydroxyethyl)-didodecyl-ammonium bromide $\begin{array}{c} \text{CH}_3 \\ \\ \text{C}_{12}\text{H}_{25}-\text{N}^+ \\ \quad \diagup \\ \text{C}_{12}\text{H}_{25} \quad \text{C}_2\text{H}_4-\text{OH} \end{array} \text{Br}^-$	27	492.7
DC-3-12D DC-3-12L DC-3-18D	2C ₁₂ -D-Glu-C ₂ N ⁺ 2C ₁₂ -L-Glu-C ₂ N ⁺ 2C ₁₈ -D-Glu-C ₂ N ⁺	N-(α-Trimethylammonioacetyl)-didodecyl-D-glutamate chloride (n=12D) $\begin{array}{c} \text{O} \\ \parallel \\ \text{CnH}_{(2n+1)}-\text{O}-\text{C}-\text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{CnH}_{(2n+1)}-\text{O}-\text{C}-\text{CH}-\text{NHC}-\text{CH}_2-\text{N}^+(\text{CH}_3)_2 \text{Cl}^- \\ \parallel \quad \parallel \\ \text{O} \quad \text{O} \end{array}$ <p style="text-align: right;">n = 12D, 12L, 18D</p>	4 4	619.4 619.4

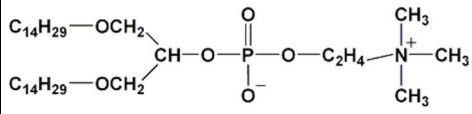
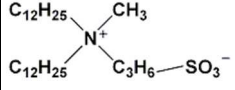
DC-5-8F2L	2C ₈ F ₁₇ C ₂ -L-Glu-C ₂ N ⁺	<p>N- (α-Trimethylammonioacetyl) -O, O' -bis- (1H, 1H, 2H, 2H-perfluorodecyl) -L-glutamate chloride</p> 	95	1175.0
DC-6-12 DC-6-14 DC-6-16	2C _{1,2-de} -C ₂ N ⁺ 2C _{1,4-de} -C ₂ N ⁺ 2C _{1,6-de} -C ₂ N ⁺	<p>O, O' -Didodecanoyl-N- (α-trimethylammonioacetyl) diethanolamine chloride (n=12)</p>  <p style="text-align: right;">n = 12, 14, 16</p>	22 34 47	605.3 661.4 717.5
DC-7-12	2C ₁₂ N ⁺ -C ₁ -Al	<p>Methylallyldidodecylammonium bromide</p> 		487.7
DC-8-18	2C ₁₈ -Bip	<p>N- (3-Propylamido-N', N'' -dioctadecyl) -4- (4' -pyridyl) pyridinium bromide</p> 		813.1
DC-9-12L DC-9-14D DC-9-18L	2C _{1,2-L-Glu-ph} -C ₄ n ⁺ 2C _{1,4-D-Glu-ph} -C ₄ N ⁺ 2C _{1,8-L-Glu-ph} -C ₄ N ⁺	<p>N- {p- (ω-Trimethylammoniobutyloxy) -benzoyl} - didodecyl-L-glutamate bromide (n=12L)</p>  <p style="text-align: right;">n = 12L, 14D, 18L</p>	29 45	798.0 854.1 966.3
DC-10-12-2	2C _{1,1-CO} -C ₂ -C ₄ N ⁺	<p>9- (ω-Trimethylammoniobutyl) -3, 6-bis (dodecanoyl) carbazole bromide</p> 		725.9

DC-11-18	2C ₁₈ N ⁺ Cl ⁻	Dimethyldioctadecylammonium chloride 		586.5
DC-12-16D DC-12-16L	2C ₁₆ -D-Glu-C ₁₁ N ⁺ 2C ₁₆ -L-Glu-C ₁₁ N ⁺	N-ω-Trimethylammonio decanoyl-dihexadecyl-D-glutamate bromide (n=16D) 		902.3 902.3
DC-13-14L	2C ₁₄ -L-Glu-ph-C ₆ N ⁺	N-(p-(ω-Trimethylammoniohexyloxy)-benzoyl)-ditetradecyl-L-glutamate bromide 		882.2

DIALKYL NONIONIC COMPOUNDS

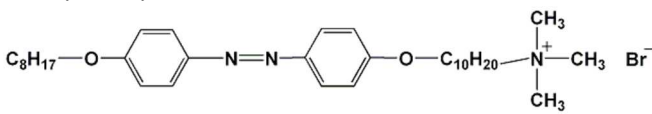
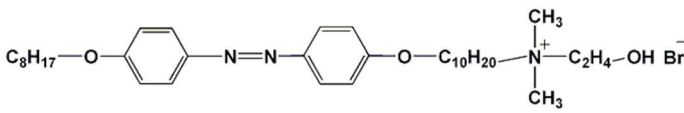
SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T c (°C)	MOLECULAR WEIGHT
DN-1-12	2C ₁₂ -Glucon	N,N-Didodecyl-ω-(gluconoamido)-hexamide 		645.0

DIALKYL ZWITTERIONIC COMPOUNDS

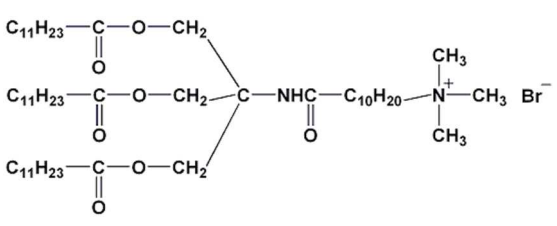
SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T c (°C)	MOLECULAR WEIGHT
DZ-1-14	2C ₁₄ -Gly-PC	1,3-Ditetradecylglycero-2-phosphocholine 		650.0
DZ-2-12	2C ₁₂ N ⁺ C ₃ -SO ₃ ⁻	N,N-Didodecyl-N-methyl-ammonio propane sulfonate 		489.8

MONOALKYL CATIONIC COMPOUNDS

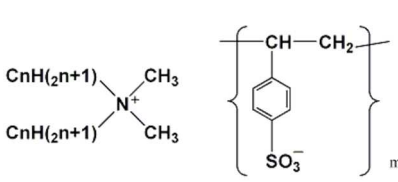
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SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T _c (°C)	MOLECULAR WEIGHT
MC-1-0810	C ₈ -Azo-C ₁₀ N ⁺	p - (ω-Trimethylammoniodecyloxy) - p' - octyloxyazobenzene bromide 		604.7
MC-3-0810	C ₈ -Azo-C ₁₀ N ⁺ C ₂ OH	p - {ω-(β-Hydroxyethyl)dimethyl-ammoniodecyloxy} - p' - octyloxyazobenzene bromide 		634.7

TRIALKYL CATIONIC COMPOUNDS

SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T _c (°C)	MOLECULAR WEIGHT
TC-1-12	3C ₁₂ -Tris-C ₁₁ N ⁺	O, O', O'' - Tridodecanoyl-N-(ω-trimethylammoniododecanoyl)-tris(hydroxymethyl)aminomethane bromide 		974.3

POLYION COMPLEX COMPOUNDS

SALES NAME	ABBREVIATION	CHEMICAL NAME AND CHEMICAL FORMULA	T _c (°C)	MOLECULAR WEIGHT
IC-DC-1-14 IC-DC-1-18	2C ₁₄ N ⁺ /PSS ⁻ 2C ₁₈ N ⁺ /PSS ⁻	 n = 14, 18		622.0 734.3



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