

Detergent Screen 2™

HAMPTON
RESEARCH

Solutions for Crystal Growth

Detergent Structures

HR2-411

Detergent 1

10% w/v Pluronic® F-68

Synonyms

Polyoxyethylene-polyoxypropylene Block Copolymer /
Methyl-oxirane, polymer with oxirane, $(C_3H_6O \cdot C_2H_4O)_x$ /
Ploxamer 188

Detergent Type

Non Ionic

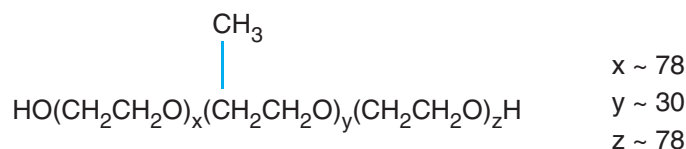
Chemical Information

CAS Number: [9003-11-6]

Molecular Weight: ~8400

Molecular Formula: $EO_{78}PO_{30}EO_{78}$

Structure



Detergent 2

10% w/v ANAPOE® -35

Synonyms

BRIJ®-35 / C₁₂E₂₃ / α-Dodecyl-ω-hydroxy-poly(oxy-1,2-ethanediyl) / Polyethylene glycol (23) monododecyl ether

Detergent Type

Non Ionic

Chemical Information

CAS Number: [9002-92-0]

Molecular Weight: ~1198

Molecular Formula: $(C_2H_4O)_n C_{12}H_{26}O$, n~23

Structure



Detergent 3

27.5 mM 2,6-Dimethyl-4-heptyl-β-D-maltopyranoside

Synonyms

NONE

Detergent Type

Non Ionic

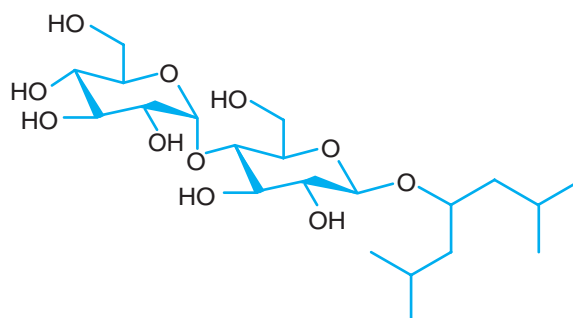
Chemical Information

CAS Number: [8696-38-3]

Molecular Weight: 468.54

Molecular Formula: $C_{21}H_{40}O_{11}$

Structure



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Detergent 4

10% w/v ANAPOE® -58

Structure

Synonyms

BRIJ® -58 / C₁₆E₂₀ / α-Hexadecyl-ω-hydroxy-poly(oxy-1,2-ethanediyl) / Polyethylene glycol (20) monohexadecyl ether

Detergent Type

Non Ionic

Chemical Information

CAS Number: [9004-95-9]

Molecular Weight: ~1122

Molecular Formula: (C₂H₄O)_nC₁₆H₃₄O, n~20



Detergent 5

10% w/v ANAPOE® -X-114

Structure

Synonyms

TRITON® X-114 / α-[(1,1,3,3-Tetramethylbutyl)phenyl]-ω-hydroxy-poly(oxy-1,2-ethanediyl)

Detergent Type

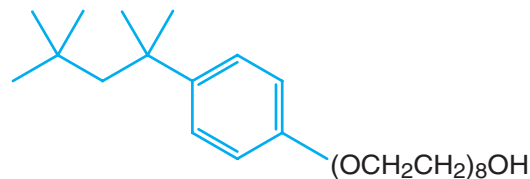
Non Ionic

Chemical Information

CAS Number: [9036-19-5]

Molecular Weight: ~536

Molecular Formula: t-Oct-C₆H₄-(OCH₂CH₂)_nOH, n~7-8



Detergent 6

10% w/v ANAPOE® -X-305

Structure

Synonyms

TRITON® X-305 / α-[4-(1,1,3,3-Tetramethylbutyl)phenyl]-ω-hydroxy-poly(oxy-1,2-ethanediyl)

Detergent Type

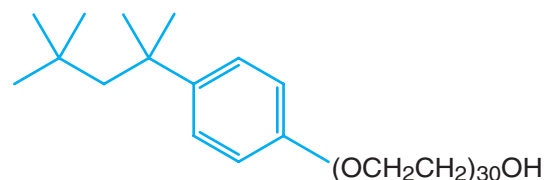
Non Ionic

Chemical Information

CAS Number: [9002-93-1]

Molecular Weight: ~1526

Molecular Formula: t-Oct-C₆H₄-(OCH₂CH₂)_nOH, n~30



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Detergent 7

10% w/v ANAPOE® -X-405

Synonyms

TRITON® X-405 / α -[4-(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxy-poly(oxy-1,2-ethanediyl)

Detergent Type

Non Ionic

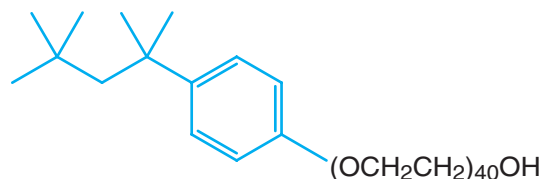
Chemical Information

CAS Number: [9002-93-1]

Molecular Weight: ~1967

Molecular Formula: $t\text{-Oct-C}_6\text{H}_4\text{-(OCH}_2\text{CH}_2)_n\text{OH}$, $n \sim 40$

Structure



Detergent 8

10% w/v ANAPOE® -20

Synonyms

TWEEN® 20 / Polyoxyethylene(20)sorbitan monolaurate / Poly(oxy-1,2-ethanediyl) derivs., sorbitan monododecanoate

Detergent Type

Non Ionic

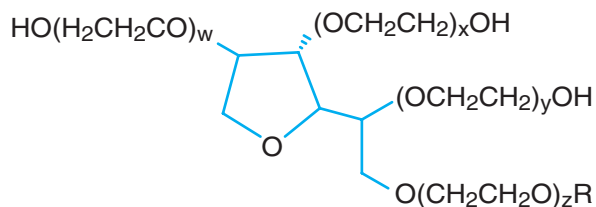
Chemical Information

CAS Number: [9005-64-5]

Molecular Weight: ~1228

Molecular Formula: $\text{C}_{58}\text{H}_{114}\text{O}$

Structure



Sum of $w+x+y+z=20$

$\text{R}=\text{C}_{11}\text{H}_{23}\text{C(O)}$

Detergent 9

10% w/v ANAPOE® -80

Synonyms

TWEEN® 80 / Polyoxyethylene(80)sorbitan monolaurate / Poly(oxy-1,2-ethanediyl) derivs., (Z)-sorbitan mono-9-octadecanoate

Detergent Type

Non Ionic

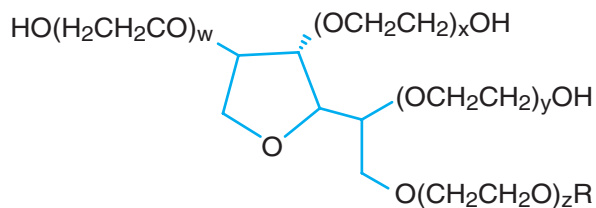
Chemical Information

CAS Number: [9005-65-6]

Molecular Weight: ~1310

Molecular Formula: $\text{C}_{64}\text{H}_{124}\text{O}_{26}$

Structure



Sum of $w+x+y+z=20$

$\text{R}=\text{C}_{17}\text{H}_{33}\text{C(O)}$

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Detergent 10

10% w/v ANAPOE® -C₁₀E₆

Structure

Synonyms

Polyoxyethylene(6)decyl ether /
3,6,9,12,15,18-hexaoxaoctacosan-1-ol

Detergent Type

Non Ionic

Chemical Information

CAS Number: [5168-89-8]

Molecular Weight: ~423

Molecular Formula: (C₂H₄O)_nC₁₀H₂₂O, n~6



Detergent 11

10% w/v ANAPOE® -C₁₀E₉

Structure

Synonyms

Polyoxyethylene(9)decyl ether /
α-Decyl-ω-hydroxy-poly(oxy-1,2-ethanediyl)

Detergent Type

Non Ionic

Chemical Information

CAS Number: [26183-52-81]

Molecular Weight: ~555

Molecular Formula: (C₂H₄O)_nC₁₀H₂₂O, n~9



Detergent 12

10% w/v ANAPOE® -C₁₂E₁₀

Structure

Synonyms

Polyoxyethylene(10)dodecyl ether / 3,6,9,12,15,18,24,27,30-
decaoxadotetracontan-1-ol

Detergent Type

Non Ionic

Chemical Information

CAS Number: [6540-99-4]

Molecular Weight: ~627

Molecular Formula: (C₂H₄O)_nC₁₂H₂₆O, n~10



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Detergent 13

10% w/v ANAPOE® -C₁₃E₈

Synonyms

Polyoxyethylene(8)tridecyl ether

Detergent Type

Non Ionic

Chemical Information

CAS Number: [9043-30-5]

Molecular Weight: ~553

Molecular Formula: (C₂H₄O)_n C₁₃H₂₈O, n~8

Structure



Detergent 14

10% w/v IPTG

Synonyms

Isopropyl-β-D-thiogalactopyranoside /
1-Methylethyl-1-thio-β-D-galactopyranoside

Detergent Type

Non Ionic

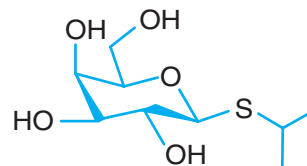
Chemical Information

CAS Number: [367-93-1]

Molecular Weight: 238.30

Molecular Formula: C₉H₁₈O₅S

Structure



Detergent 15

1.5 mM n-Dodecyl-N,N-dimethylglycine

Synonyms

NONE

Detergent Type

Zwitterionic

Chemical Information

CAS Number: [683-10-3]

Molecular Weight: 271.46

Molecular Formula: C₁₆H₃₃O₂N

Structure



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Detergent 16

7.0 mM HEGA® -10

Synonyms

Decanoyl-N-hydroxyethylglucamide

Detergent Type

Non Ionic

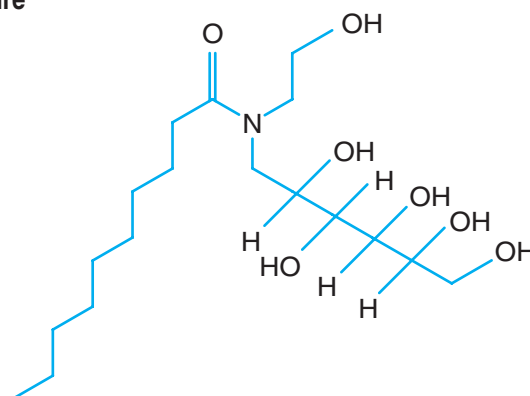
Chemical Information

CAS Number: [139361-84-5]

Molecular Weight: 379.50

Molecular Formula: C₁₈H₃₇N₁O₇

Structure



Detergent 17

7.1 mM C8E5

Synonyms

Pentaethylene glycol mono-octyl ether / Octyl pentaethylene glycol ether / Octylpentaglycol / 3,6,9,12,15-Pentaoxatricosan-1-ol

Detergent Type

Non Ionic

Chemical Information

CAS Number: [19327-40-3]

Molecular Weight: 350.50

Molecular Formula: C₁₈H₃₈O₆

Structure



Detergent 18

8.0 mM CHAPS

Synonyms

3-[(3-Cholamidopropyl)-dimethylammonio]-1-propane sulfonate / N,N-Dimethyl-3-sulfo-N-[3-[[3 α ,5 β ,7 α ,12 α)-3,7,12-trihydroxy-24-oxocholan-24-yl]amino]propyl]-1-propanaminium hydroxide, inner salt

Detergent Type

Zwitterionic

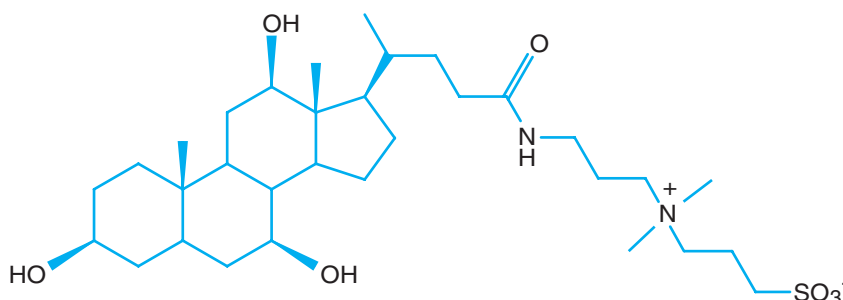
Chemical Information

CAS Number: [75621-03-3]

Molecular Weight: 614.89

Molecular Formula: C₃₂H₅₈N₂O₇S

Structure



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Detergent 19

8.0 mM CHAPSO

Synonyms

3-[(3-Cholamidopropyl)dimethylammonio]-
2-hydroxy-1-propanesulfonate

Detergent Type

Zwitterionic

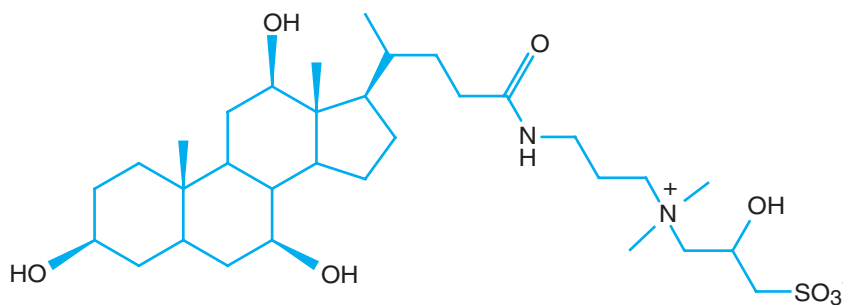
Chemical Information

CAS Number: [82473-24-3]

Molecular Weight: 630.89

Molecular Formula: C₃₂H₅₈N₂O₈S

Structure



Detergent 20

11.5 mM C-HEGA® -11

Synonyms

Cyclohexylpentanoyl-N-hydroxyethylglucamide

Detergent Type

Non Ionic

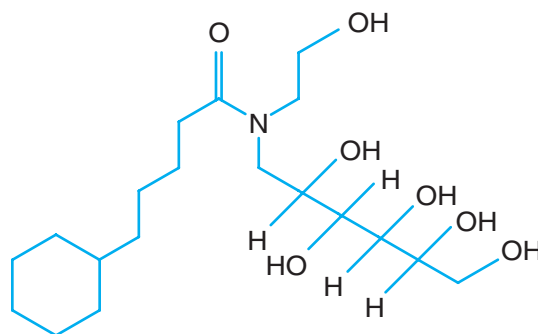
Chemical Information

CAS Number: [864434-16-2]

Molecular Weight: 391.51

Molecular Formula: C₁₉H₃₇NO₇

Structure



Detergent 21

39.0 mM HEGA® -9

Synonyms

Nonanoyl-N-hydroxyethylglucamide

Detergent Type

Non Ionic

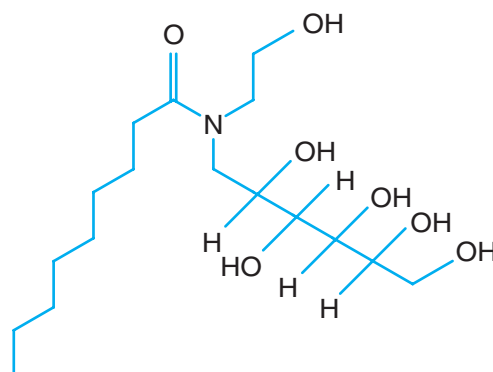
Chemical Information

CAS Number: [869653-90-7]

Molecular Weight: 365.47

Molecular Formula: C₁₇H₃₅NO₇

Structure



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Detergent 22

108 mM C-HEGA® -9

Synonyms

Cyclohexylpropanoyl-N-hydroxyethylglucamide

Detergent Type

Non Ionic

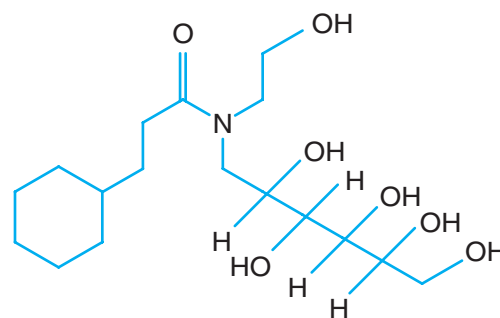
Chemical Information

CAS Number: [864434-14-0]

Molecular Weight: 363.45

Molecular Formula: C₁₇H₃₃NO₇

Structure



Detergent 23

109 mM HEGA® -8

Synonyms

Octanoyl-N-hydroxyethylglucamide

Detergent Type

Non Ionic

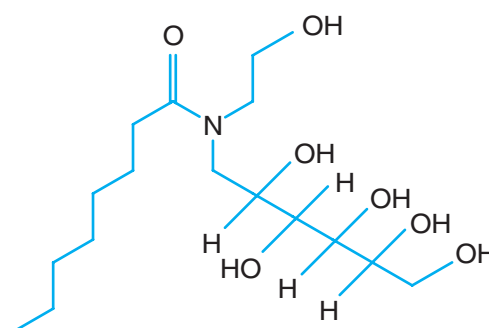
Chemical Information

CAS Number: [869652-63-1]

Molecular Weight: 351.44

Molecular Formula: C₁₆H₃₃NO₇

Structure



Detergent 24

6.6% w/v C-HEGA® -8

Synonyms

Cyclohexylethanoyl-N-hydroxyethylglucamide

Detergent Type

Non Ionic

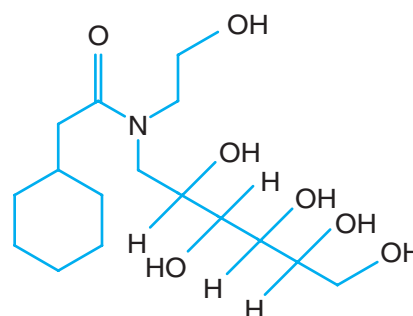
Chemical Information

CAS Number: [603111-75-7]

Molecular Weight: 349.43

Molecular Formula: C₁₆H₃₁NO₇

Structure



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Detergent 24*

CYPFOS™-3, Anagrade®

Synonyms

3-Cyclopentyl-1-propylphosphocholine

Detergent Type

Zwitterionic

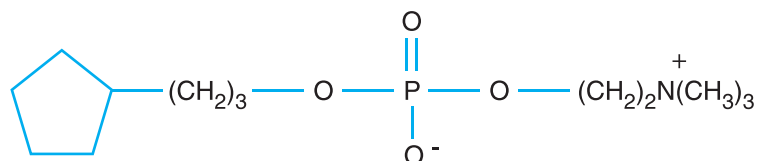
Chemical Information

CAS Number: [869548-41-4]

Molecular Weight: 293.3

Molecular Formula: C₁₃H₂₈NO₄P

Structure



* For Lot Number 241113 Detergent Screen 2 reagent 24 was changed from C-HEGA-8 to CYPFOS-3.