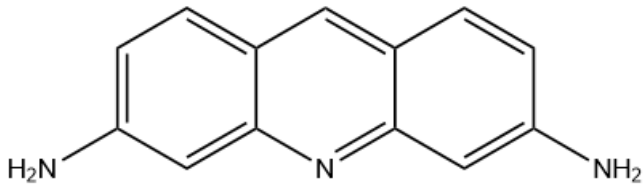
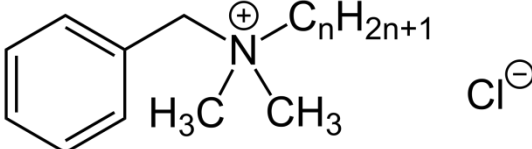
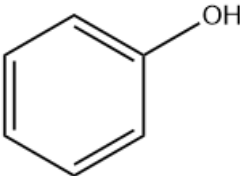


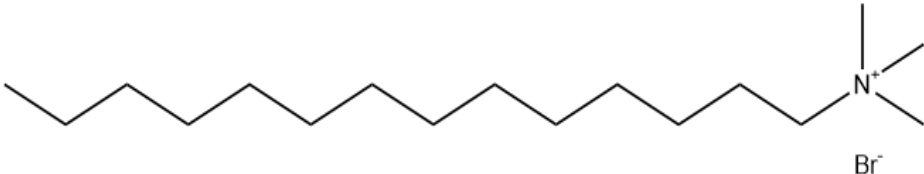
Name	Proflavine
Nomenclature	• 3-6-ACRIDINEDIAMINE • 3,6-Diaminoacridine
IUPAC Name	Acridine-3,6-Diamine
Chemical Structure	 Acridine-3,6-Diamine
Uses	• Anti-infective • Topical antiseptic • Disinfect Bacteriostatic (stops the further growth of reproducing bacteria) • Proflavine inhibits vaccine viral synthesis
Physical properties	• Physical state and appearance – Solid orange to red powder • Melting point- 285 °C • Boiling point- 507 °C at 760mmHg • Solubility- mostly Soluble in polar solvent such as ethanol, water. Insoluble in non-polar solvent (Benzene ether)
Chemical properties	• Molecular weight – 209.25 g/mol • Molecular formula - C₁₃ H₁₁ N₃
Stability and storage condition	• Store at cold condition i.e. 4 to 8 °C • Light sensitive and hygroscopic • Proflavine is stable for 1 year under cold conditions
Brand name	• Bayer Pessaries • Molca • Septicide

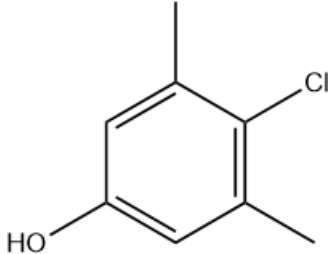
Name	Benzalkonium chloride
Nomenclature	• ADBAC • Alkyl dimethylbenzyl ammonium chloride • N-Alkylbenzyltrimethylammonium chloride • Alkyldimethyl(phenylmethyl)quaternary ammonium chlorides • Alkyldimethylbenzylammonium chloride
Chemical Structure	 $n = 8, 10, 12, 14, 16, 18$
Uses	• Surfactant • Antibacterial agents (bactericide- kill the microorganism) • Preservatives • Antiseptic • Detergent
Physical properties	• Colourless or yellowish powder • Melting point- 29-34 °C • Solubility- freely soluble in water at 20°C
Chemical properties	• Molecular formula – $C_{22}H_{42}ClN$ (R= C_8H_{17} to $C_{18}H_{37}$) • Molecular weight – 372.028g/mol ($C_{22}H_{42}ClNO$) • Class of quaternary ammonium compounds • It having different lengths of alkyl group vary C_8 to C_{18}. • For the maximum bactericidal activity found in $C_{12} - C_{14}$ alkyl group

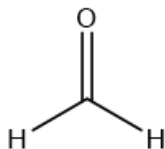
Stability and storage condition	• Store at room temperature • Kept in tightly closed container
Brand name	• Alfa Drops • CFC(ointment) • Ciplox D • Hyamine 3500 • Antibacterial soap

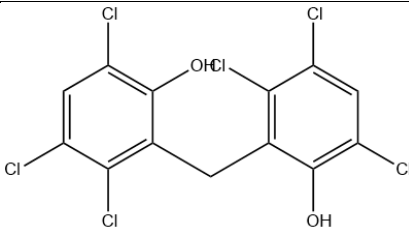
Name	Phenol
Nomenclature	• Benzenol • Carbolic acid • Hydroxybenzene • Phenic acid • Phenyl hydroxide • Oxybenzene
Chemical Structure	 Phenol
Uses	• Antiseptic • Detergent

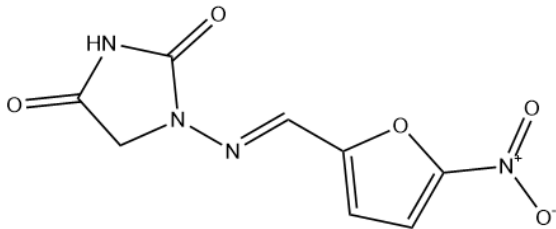
	• Oral analgesic
Physical properties	• White crystalline powder or solution. • Solution can be white to slight pink color • It has a distinct aromatic phenolic odor • Melting point- 40 - 42 °C • Boiling point- 182 °C • Solubility- slightly soluble in water; freely soluble in chloroform, ether, glycerol, and fixed oil
Chemical properties	• Molecular formula – C_6H_6O or C_6H_5OH • Molecular weight – 94.11 g/mol
Stability and storage condition	• Store at dry, cool place
Brand name	• Blistex • Chloraseptic • Phenyle

Name	Cetrimide
Nomenclature	• Myristyltrimethylammonium bromide • Tetraadonium bromide • TTAB • MITMAB • Tetradecyltrimethylammonium bromide
Chemical Structure	 Myristyltrimethylammonium bromide
Uses	• Antiseptic • Disinfectant
Physical properties	• Colourless crystalline powder • Melting point- 245-250 °C • Solubility- slightly soluble in water
Chemical properties	• Molecular formula – C₁₇ H₃₈BrN • Molecular weight – 336.4 g/mol
Stability and storage condition	• Hygroscopic • Incompatible with oxidizing agents • Store at cool temperature • Stable under normal condition
Brand name	• Cetavlon • Sacbrace • Scabus • Hexiwil-C • Ketona

Name	Chloroxylenol
Nomenclature	• p-chloro-3,5-xyleneol • 2-chloro-m-xyleneol • 2-chloro-5-hydroxy-m-xylene
Chemical Structure	 p-chloro-3,5-xyleneol
Uses	• Antiseptic • Disinfectant • Antimicrobial
Physical properties	• Phenolic odor • Boiling point- 246 °C • Melting point- 112-116 °C • Solubility- soluble in ethanol; slightly soluble in pet ether and benzene
Chemical properties	• Molecular formula – C₈ H₉ClO • Molecular weight – 156.61 g/mol
Stability and storage condition	• Store at room temperature • It stable when exposed to sunlight and humidity • It also stable at higher temperature (54°C)
Brand name	• Dettol Hand wash & soap

Name	Formaldehyde solution
Nomenclature	• Formalin • Methanal • Formol • Methylene oxide
Chemical Structure	
Uses	• Preservative • Antimicrobial
Physical properties	• Colorless aqueous solution • Pungent smell • Boiling point- (-19) °C • Melting point- (-92) °C • Solubility- soluble in water, ethanol and chloroform
Chemical properties	• Molecular formula – CH₂O • Molecular weight – 30.026 g/mol
Stability and storage condition	• Store at room temperature or cool temperature • Flammable should be kept in air tightly sealed container and away from flame prone area • Dilute solution of formaldehyde can be stabled at 2 °C for one week
Brand name	• Dettol Hand wash & soap

Name	Hexachlorophene
Nomenclature	2,2'-methylenebis(3,4,6-trichlorophenol)
Chemical Structure	 2,2'-methylenebis(3,4,6-trichlorophenol)
Uses	• Disinfectant • Antiseptic
Physical properties	• Colorless free flowing powder • Slight characteristic phenolic odor • Boiling point- 479 °C • Melting point- 166.5 °C • Solubility- Insoluble in water; soluble in chloroform, PEG
Chemical properties	• Molecular formula – C₁₃H₆Cl₆O₂ • Molecular weight – 406.90 g/mol
Stability and storage condition	• Store at room temperature up to 25 °C • Stored in air tightly sealed container and away
Brand name	• pHisoHex

Name	Nitrofurantoin
Nomenclature	1-[(E)-(5-nitrofuran-2-yl)methylideneamino]imidazolidine-2,4-dione
Chemical Structure	 1-[(E)-(5-nitrofuran-2-yl)methylideneamino]imidazolidine-2,4-dione
Uses	• Disinfectant • Antiseptic
Physical properties	• Lemon yellow crystals • Bitter taste • Melting point- 263-272 °C • Solubility- Insoluble in water and ether; slightly soluble in alcohol
Chemical properties	• Molecular formula – C₈H₆N₄O₅ • Molecular weight –238.16 g/mol
Stability and storage condition	• Store at room temperature up to 30 °C • Stored in air tightly sealed container and away
Brand name	• Trifuran tab • Furadantin tab