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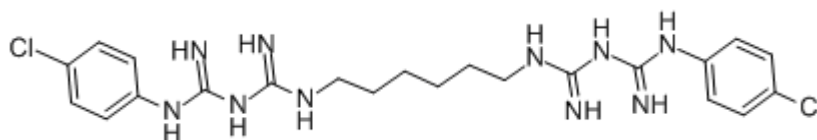
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## Technical Data Sheet

# Chlorhexidine

### Product Information

Chemical Name Chlorhexidine  
CAS # 55-56-1  
Formula C<sub>22</sub>H<sub>30</sub>Cl<sub>2</sub>N<sub>10</sub>  
Molecular Weight 505.45  
Synonyms 1,6-DI(N-P-CHLOROPHENYL-DIGUANIDO)  
HEXANE;1,1'-HEXAMETHYLENEBIS[5-(4-CHLOROPHENYL)BIGUANIDE];CHLORHEXIDINE  
BASE;CHLORHEXIDINE;LABOTEST-BB  
LT00440966;hexamethylenebis(5-(4-chlorophenyl)biguanide);bis(5-(p-chlorophenyl)biguanidinio)hexane;n,n  
'-bis(4-chlorophenyl)-3,12-diimino-tetraazatetradecanediimidamide  
Chemical Structure



### Description

Chloride has also known as chlorhexidine, chemical called double effects of metformin hexane, cationic surfactant, has quite a strong broad-spectrum antimicrobial, bactericidal effect, is a kind of good sterilization, disinfection medicine to gram-positive and negative bacteria antibacterial effect is better than benzalkonium bromide.

### Physical Properties

white or white crystalline. Poorly soluble in water, soluble in DMF.

Melting point: 132 ~ 136 °C.

### Specification

Items	Testing Results
Appearance	A white powder

Identification	IR spectrum	Conforms
	Chlorhexidine Mp	132.6°C ~133.7°C
Tests	Loss on drying,%	0.81
	Residue on ignition,%	0.07
	P-Chloroaniline,ppm	Conforms
Assay,%		99.6

### Safety

Always refer to the Material Safety Data Sheet (MSDS)

### Applications

Pharmaceutical intermediates for surfactant formulations fungicide, has quite a strong broad-spectrum antimicrobial, bactericidal effect, to gram-positive bacterium and negative bacteria are effective. Chlorine has set combined with hydrochloric acid, acetic acid, glucose into salt, respectively to form hydrochloric acid chloride has set, chlorhexidine acetate and glucose acid chloride has set.

### Packaging

25kg per fiber drum  
7mt per 20ft container

### Storage & Handling

Do not store in direct sunlight. Store in a tightly closed container.  
Store in a cool, dry, well-ventilated area away from incompatible substances.  
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation.  
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Keep container tightly closed.  
Avoid ingestion and inhalation.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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