

Chlorhexidine
digluconate
C34H54Cl2N10O14
structure



**ASSIGN
BUSTER**

Contents

- Bio Activity:

Molecular C₃₄ H₅₄ Cl₂ N

Formula 10 O₁₄

Average mass 897. 757 Da

Density

Boiling Point

Flash Point

Molar

Refractivity

Polarizability

Surface

Tension

Molar Volume

- Experimental data
- Predicted - ACD/Labs
- Predicted - ChemAxon
- Experimental Physico-chemical Properties

- **Experimental Gravity:**

1. 06 g/mLAlfa

Aesar41385

- **Experimental Solubility:**

10 mM in

DMSOMedChem

ExpressHY-B0608

DMSO:

38mg/mLMedChem

ExpressHY-B0608

- Miscellaneous

- **Safety:**

WARNING: Irritates

skin and eyes, not

for human

consumptionAlfa

Aesar41385

- **Bio Activity:**

AntibacterialMedCh

em ExpressHY-

B0608

Anti-
infectionMedChem
ExpressHY-B0608

Anti-infection;
MedChem
ExpressHY-B0608

Chlorhexidine is an
antiseptic effective
against a wide
variety of gram-
negative and gram-
positive organisms.
MedChem Express

Chlorhexidine is an
antiseptic effective
against a wide
variety of gram-
negative and gram-
positive organisms.;

Target:

Antibacterial;

Chlorhexidine is a
chemical antiseptic.

It is effective on

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both Gram-positive and Gram-negative bacteria, although it is less effective with some Gram-negative bacteria. It has both bactericidal and bacteriostatic mechanisms of action, the mechanism of action being membrane disruption, not ATPase inactivation as previously thought. It is also useful against fungi and enveloped viruses, though this has not been extensively investigated.

MedChem

ExpressHY-B0608

Chlorhexidine is an antiseptic effective against a wide variety of gram-negative and gram-positive organisms.;

Target:

AntibacterialChlorhexidine is a chemical antiseptic.

It is effective on both Gram-positive and Gram-negative bacteria, although it is less effective with some Gram-negative bacteria. It has both bactericidal and bacteriostatic mechanisms of action, the mechanism of action being

membrane
disruption, not
ATPase inactivation
as previously
thought. It is also
useful against fungi
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viruses, though this
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extensively
investigated.

Chlorhexidine is
harmful in high
concentrations, but
is used safely in low
concentrations in
many products,
such as mouthwash
and contact lens
solutions [1, 2].

MedChem

ExpressHY-B0608

Predicted data is generated using the ACD/Labs Percepta Platform -
PhysChem Module

No predicted properties have been calculated for this compound.

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Density:

Boiling Point:

Vapour Pressure:

Enthalpy of Vaporization:

Flash Point:

Index of Refraction:

Molar Refractivity:

#H bond acceptors:

#H bond donors:

#Freely Rotating Bonds:

#Rule of 5 Violations:

ACD/LogP:

ACD/LogD (pH 5. 5):

ACD/BCF (pH 5. 5):

ACD/KOC (pH 5. 5):

ACD/LogD (pH 7.4):

ACD/BCF (pH 7.4):

ACD/KOC (pH 7.4):

Polar Surface Area:

Polarizability:

Surface Tension:

Molar Volume:

Click to predict properties on the Chemicalize site