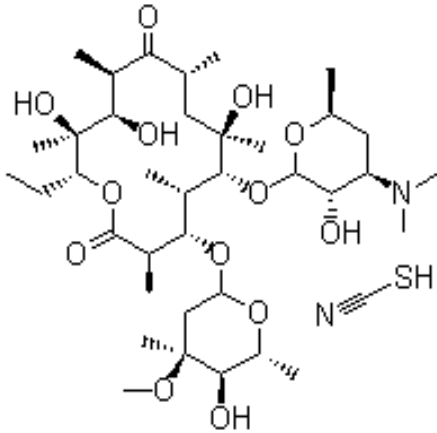


# ERYTHROMYCIN THIOCYANATE

Erythromycin Thiocyanate is a macrolide antibiotic that has an antimicrobial spectrum similar to or slightly wider than that of penicillin, and is often prescribed for people who have an allergy to penicillins.

<b>Structure</b>	
<b>Molecular</b>	$C_{37}H_{67}NO_{13} \cdot HCNS$
<b>Molecular Weight</b>	793.02
<b>Chemical Name</b>	Erythromycin,thiocyanate (salt);Erythromycin, thiocyanate (salt);(3R,4S,5S,6R,7R,9R,11R,12R,13R,14R)-6-[(2S,3R,4S,6R)-4-dimethylamino-3-hydroxy-6-methyl-oxan-2-yl]oxy-14-ethyl-7,12,13-trihydroxy-4-[(2S,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyl-oxan-2-yl], Erythromycin thiocyanate
<b>Therapeutic Category</b>	Antibiotic
<b>CAS #</b>	7704-67-8
<b>Packaging</b>	Tight Container
<b>Shelf Life</b>	3 years

## ERYTHROMYCIN THIOCYANATE

## SPECIFICATIONS

TEST NAME	ACCEPTANCE CRITERIA
<b>Loss on Drying</b> (3 hours under vacuum at 60 degrees C)	≤ 10.0 %
<b>Identification</b> (by IR)	Sample and standard spectra are qualitatively identical
<b>Thiocyanate</b>	≥ 5.9 %
<b>Appearance</b>	Powder
<b>Color</b>	White to buff
<b>pH</b> (of 0.1% Water Suspension)	5.0 - 7.0
<b>Sulphated Ash (EP/BP) / Residue on Ignition (USP)</b>	≤ 0.5 %
<b>Erythromycin Microbiological - "As Is"</b>	mcg/mg
<b>Erythromycin Microbiological - Anhydrous</b>	≥ 750 mcg/mg
<b>Ery A + B + C</b> (Anhydrous by HPLC)	≥ 79.0 %
<b>Ery B</b> (Anhydrous by HPLC)	≤ 4.5 %
<b>Ery C</b> (Anhydrous by HPLC)	≤ 5.0 %
<b>Ery E</b> (Anhydrous by HPLC)	≤ 4.5 %
<b>Ery A Enol Ether</b> (Anhydrous by HPLC)	≤ 1.2 %
<b>Largest Unspecified Impurity</b> (Anhydrous by HPLC)	≤ 1.4 %
<b>Solution (10%) in Methanol</b>	Clear to slightly hazy Practically colorless to pale yellow



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