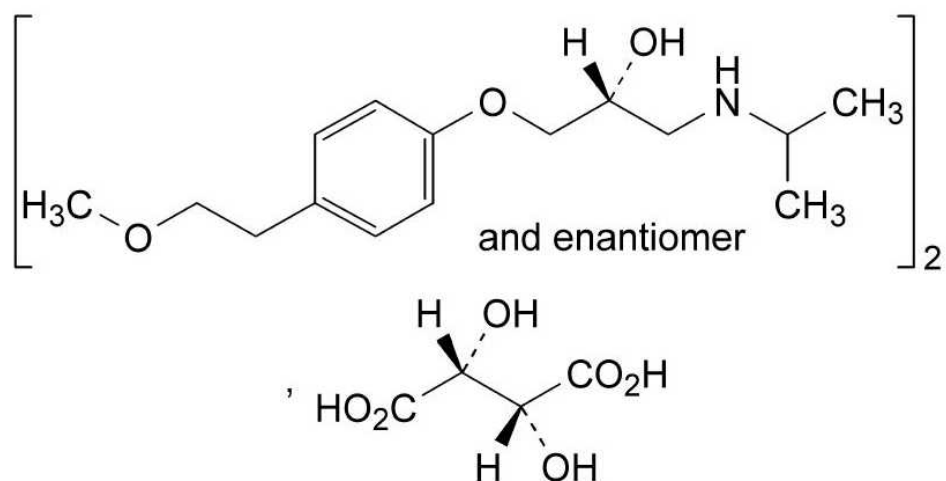


M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT INFORMATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : METOPROLOL TARTRATE
MSDS no. BPPL 016	SPECIFICATION NO. FP-016

1. NOMENCLATURE : Bis[(2RS)-1-[4-(2-Methoxyethyl)Phenoxy]-3-[(1-Methylethyl)-Amino]Propan-2-ol] (2R,3R)-2,3-Dihydroxy Butanedioate.
: Metoprolol Tartrate.
2. CAS NO. : 56392-17-7
3. EMPIRICAL FORMULA : $(C_{15}H_{25}NO_3)_2 \cdot C_4H_6O_6$
4. MOL. WT. : 685
5. STRUCTURAL FORMULA :



6. DESCRIPTION : A white, crystalline powder or colourless crystals, Odourless, Very soluble in water.
7. THERAPEUTIC USE : Beta-adrenoceptor antagonist.
: Used in preparation of injections and Tablets

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT PHARMACOPOEIAL SPECIFICATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : METOPROLOL TARTRATE BP
MSDS no. BPPL 016	SPECIFICATION NO. FP- 016

1. DESCRIPTION : A white, crystalline powder or colourless crystals, Odorless

2. SOLUBILITY :
 - : Very soluble in water.
 - : Freely soluble in Alcohol. (95%)
 - : Freely soluble in Chloroform and in MDC.
 - : Slightly soluble in Acetone.
 - : Practically insoluble in Ether.

3. IDENTIFICATION (By IR & Chemical Reactions) :
 - A) By Specific Optical Rotation.
 - B) By Melting Point
 - C) By IR
 - D) By TLC
 - E) By Reactions of Tartrates

4. RELATED SUBSTANCES (BY TLC) & (By HPLC) : Complies as per B.P. / U.S.P.

5. pH (2% w/v Solution) : 6.0 to 7.0

6. CLARITY & COLOUR OF SOLUTION (APPEARANCE OF SOLUTION) : 2% Solution in water is clear & not more intensely coloured than RS

7. SPECIFIC OPTICAL ROTATION: (On dried basis) (2% solution) : +7.0° TO +10.0°

8. LOSS ON DRYING (LOD) : NMT 0.5%

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QUALITY CONTROL AND ASSURANCE	PRODUCT : METOPROLOL TARTRATE BP
MSDS no. BPPL 016	SPECIFICATION NO. FP- 016

9. RESIDUE ON IGNITION : NMT 0.1%
(Sulphated Ash)
10. MELTING POINT : 121°C TO 124°C
11. HEAVY METALS : NMT 10 ppm.
12. ASSAY (ODB) : Between 99% to 101%
13. PACKING : 10 Kgs./ 25 kgs. Fibre Drums with double PE Liners.