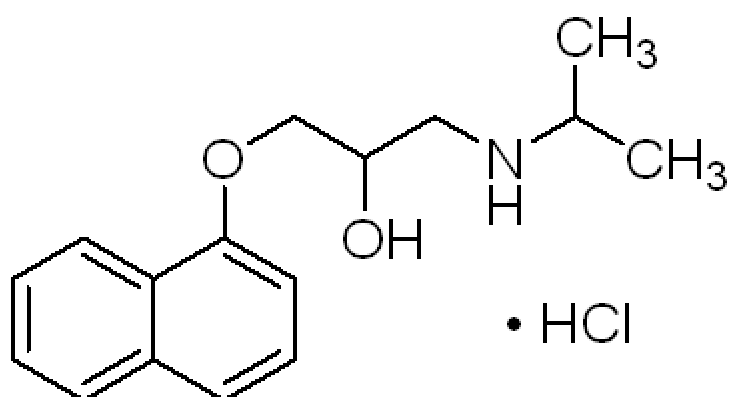


M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	RAW MATERIALS INFORMATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : PROPRANOLOL HCL
MSDS no. BPPL 067	SPECIFICATION NO. FP 067

1. NOMENCLATURE : (2 RS)-1-[(1-Methylethyl) amino] -3-(Naphthalen – 1- Yloxy) Propan –2ol Hydrochloride.
: (RS) –1- Isopropylamino-3-(1-Naphthyloxy) Propan – 2 ol Hydrochloride.
2. CAS NO. : 318-98-9
3. EMPIRICAL FORMULA : C₁₆H₂₁NO₂.HCL.
4. MOL. WT. : 295.8
5. MELTINGN POINT : 162°C TO 165°C
6. STRUCTURAL FORMULA :



7. DESCRIPTION : A White or almost white powder, Soluble in Water and in Alcohol.
8. APPLICATIIONS : Beta-Adrenoceptor antagonist.

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	RAW MATERIALS PHARMACOPOEIAL SPECIFICATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT :. PROPRANOLOL HCL BP/ USP
MSDS no. BPPL 067	SPECIFICATION NO. FP 067

1. DESCRIPTION : White or almost white Crystalline Powder, Odorless, Bitter Taste; Free of dark and strange particles.
2. SOLUBILITY : Soluble in Water and Alcohol;
: Sparingly soluble in Chloroform.
: Practically insoluble in Ether.
3. IDENTIFICATION : A) By Melting Point.
B) By IR .
C) By TLC.
D) By Reactions of Chlorides.
4. CLARITY & COLOUR OF SOLUTION : 10% Solution in Methanol is Clear and not more intensely Coloured than (APPEARANCE OF SOLUTION) Reference Solution.
5. RELATED SUBSTANCES : By HPLC
Total Impurities, NMT 0.4%.
Single Impurity, NMT 0.1%.
6. SPECIFIC ROTATION : Between -1.0° and +1.0°
7. ACIDITY OR ALKALINITY : Confirms BP requirements.
(PH) (PH = 5.0 to 6.0, in 1.0% Solution).
8. RESIDUE ON IGNITION : NMT 0.1%.
(Sulphated Ash)
9. LOSS ON DRYING : NMT 0.5%.
10. HEAVY METALS : NMT 20 ppm.
11. ORGANIC VOLATILE IMPURITIES : Meets the requirements as per USP.
12. ASSAY : 99% to 101%.
(By Potentiometrically)