

SPECIFICATION

Lansoprazole

| Parameters | Specification |
|-------------------|---|
| CAS Number | 103577-45-3 |
| Appearance | White to off-white crystalline powder |
| Molecular Formula | C ₁₆ H ₁₄ F ₃ N ₃ O ₂ S |
| Molecular Weight | 366.37 g/mol |
| Boiling Point | 360 °C |
| Melting Point | 131 °C |
| Flash Point | 190 °C |
| Purity | 98–99% |
| Refractive Index | 1.62 |
| Solubility | Slightly soluble in water; soluble in methanol, ethanol and acetone |
| Uses | Therapeutic proton pump inhibitor used to treat GERD, ulcers and related acid-related disorders; inhibits gastric acid secretion by blocking H ⁺ /K ⁺ -ATPase in gastric parietal cells |



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