

POLIKOL 1000PF

CHEMICAL NAME Polyethylene glycol Ph. Eur; Macrogol 1000

INCI NAME

CAS NUMBER 25322-68-3

FUNCTION Solvent, solubilising agent

TECHNICAL REQUIREMENTS

Samenesscomplies with A, B,C tests
 Appearance at (20÷25)°Cwhite to pale yellow wax
 Solution appearance ≤ color of the comparative solution BY6
 Hydroxyl value, mg KOH/g 107 , 118
 Acidity or alkalinity, mL ≤ 0.1
 Water, %(m/m) ≤ 2.0
 Kinematic viscosity at 20°C, mm²/s 20.4 ÷ 27.7
 Dynamic viscosity at 20°C, mPa·s22 , 30
 Sulphated ash, % (m/m) ≤ 0.2
 Heavy metals, ppm ≤ 20
 Formaldehyde, ppm ≤ 30
 Ethylene oxide, ppm ≤ 1
 Dioxane, ppm ≤ 10
 Reducing substances ≤ color of the comparative solution R3

Sum of the contents of ethylene glycol and diethylene glycol ,%
 (m/m)≤ 0.4
 Melting point,°C.....35 , 40

GENERAL DATA -

APPLICATION

Polyethylene glycols are a group of polymers widely used in industrial, food, medical and pharmaceutical production. These polymers of ethylene oxide are often referred to as PEG, POE, PEO, while the common name used in the pharmaceutical industry is Macrogol. In order to classify polyethylene glycols as Macrogols, it is necessary to meet the restrictive requirements described by the Pharmacopoeia. POLIKOL 1000PF meets the quality requirements according to the 9.0 version of European Pharmacopoeia. It is used as solvent and solubilising agent for active substances and excipients of pharmaceutical formulations present in liquid and semi – liquid forms.