

PRODUCT IDENTITY

PRODUCT NAME	Poly(ethylene glycol) (PEG)	PRODUCT NUMBER	P615477
Grades & Purity	UltraBio™, Ultra pure, 2000	VERSION	3
CAS NUMBER	25322-68-3	FORMULA	HO(CH ₂ CH ₂ O) _n H
FORMULA WEIGHT	g/mol		

ACCEPTANCE CRITERIA

PARAMETER	SPECIFICATION / LIMIT
Appearance(P615477)	Colorless or White Powder or Crystals or Flakes
Aluminium(Al)	0-5 (ppm)
Arsenic(As)	0-0.1 (ppm)
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Cadmium(Cd)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Chloride (Cl-)	0-50 (ppm)
Chromium(Cr)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)

PARAMETER	SPECIFICATION / LIMIT
Copper(Cu)	0-5 (ppm)
Hydroxyl value	51-59 (mgKOH/g)
Infrared spectrum	Conforms to Structure
Iron(Fe)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Melting point	50-53 (°C)
metal trace analysis (icp)	corresponds to requirements
Molecular Number Mn (GPC-Analysis)	Report Result
Molecular Weight Mp (GPC-Analysis)	Report Result
Molecular Weight Mw (GPC-Analysis)	Report Result
Molecular Weight Mz (GPC-Analysis)	Report Result
Molybdenum(Mo)	0-5 (ppm)
Nickel(Ni)	0-5 (ppm)
PH(Solution)	5.5-7.0

PARAMETER	SPECIFICATION / LIMIT
Polydispersity Index(PDI)(GPC-Analysis)	Report Result
Potassium(K)	0-200 (ppm)
Residue (filter test)	no residue
Sodium(Na)	0-200 (ppm)
solubility,1.500 G IN 30 ML H ₂ O clear, colorless	pass
Strontium(Sr)	0-5 (ppm)
Total sulfur as SO ₄ (ICP)	0-50 (ppm)
Traces Peroxide(As H ₂ O ₂)	0-10 (ppm)
Sulfated Ash	0-0.2 (%)
UV-ABS.at 260 nm	0-0.1
UV-ABS.at 280 nm	0-0.04
Viscosity(50% in H ₂ O , 20°C)	47-75 (mPa·S)
Water by Karl Fischer	0-1 (%)
Zinc(Zn)	0-5 (ppm)