



# HER

**Commercial Name:** HER (Hydroxyethyl Ether of Resocinol)

**CAS No. :** 102-40-9

## PHYSICAL PROPERTIES

Appearance	White crystal powder
Molecular weight	198.22
Hydroxyl Value	540±15mg KOH/g
Melting point °C	≥83°C
Specific Gravity, 100°C	1.16
Moisture %	≤0.2
Solubility at 25°C, wt. %	
Acetone	11
Ethanol	13
Ethyl Acetate	3
Ethane	<1
Dimethylacetamide (DMAC)	≥1
Specific Heat Cal/g /°C	0.4
Melt Density at 100°C g/ml	1.16
Melt Viscosity at 100°C, cp	13.5
Bulk Density (loose) g/ml	0.51
Bulk Density (packed) g/ml	0.62
Hygroscopicity, %	
Dried at 50°C, 34mm Hg, 16hrs	0.08
At 24°C, 66.5 Relative Humidity, 168hrs	0.39

## APPLICATION

HER is a symmetrical aromatic diol chain extender, because it has good compatibility with MDI, HER is widely used in CPU, MPU and TPU products. This material has been approved that it can maintain maximum endurance, elasticity and plasticity of PU elastomer. It also offers minimum shrinkage. Besides of those common advantages of aromatic family chain extenders, HER avoids the deficiencies in HQEE (HQEE returns solids quickly when temperature drops a little). And HER offers better tear strength, initial strength, compression set. It has advantages of low shrinkage, cut resistance, low melting point and easy handling etc.

Typical uses of HER include seal, mud pipeline lining, skating wheel, shoe part,

beverage container, spandex and soft or rigid packaging materials etc.

### **STORAGE**

HER is very sensitive to moisture, it should at all times be stored together with desiccant in a dry place.

### **PACKAGING**

Net 20-kg carton drum with polyethylene liner.