

# Specification

## Technical Data Sheet

**Product Name** Phenol crystals -Pharma Spec

**Product No** 90038088

**CAS Number** 108-95-2

**Storage Temperature** Ambient

**Molecular Weight** 94.11

### Specification

**Appearance** Colourless or faintly pink or faintly yellowish crystals

**Assay** 99.0 - 100.5%

**Purity**  $\geq$  99.9% wt. (Calculated)

**Acetone**  $\leq$  1ppm (GLC)

**Colour (Pt-Co)**  $\leq$  10 Hazen units (ASTM D1686)

**Conclusion** Complies with USP/BP/Ph.Eur.

**Identification** Conforms to reference

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<b>Water</b>	≤ 0.05% (ASTM D1631)
<b>2-Methylbenzofuran</b>	≤ 0.01% (GLC)
<b>3-Methylcyclopentanone</b>	≤ 0.0009% (GLC)
<b>Alpha-Methylstyrene</b>	≤ 0.0001% (GLC)
<b>Benzene</b>	≤ 1ppm (GLC)
<b>Carbonyl Compounds</b>	≤ 0.01% (as Mesityl Oxide)
<b>Chlorine (Cl)</b>	≤ 2ppm (Colorimeter)
<b>Cumene</b>	≤ 1ppm (GLC)
<b>Distillation Range</b>	181 - 182°C
<b>Iron (Fe)</b>	≤ 0.2ppm (ICP-MS)
<b>Methylethylketone</b>	≤ 1ppm (GLC)
<b>Methylisobutylketone</b>	≤ 1ppm (GLC)
<b>Non-Volatile Matter</b>	≤ 10ppm (Gravimetric)
<b>o-cresol</b>	≤ 0.0075% (GLC)
<b>Precipitation Test</b>	Conforms to USP Monograph
<b>Specific Density</b>	~ 1.05g/ml (Gravimetric)
<b>Sulphur (S)</b>	≤ 2ppm (ICP-MS)
<b>Toluene</b>	≤ 1ppm (GLC)
<b>Total Impurities</b>	≤ 0.005% (GLC)
<b>Water solubility</b>	solution 1:12 clear @ 20°C

### Specification

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**Acetophenone**  $\leq 0.0001\%$  (GLC)

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**Colour Test** Conforms to USP

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**Hydroxyacetone**  $\leq 0.0002\%$  (GLC)

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**Solidification Point**  $\geq 40.6^{\circ}\text{C}$  (ASTM D1493)

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