



Molekula Limited
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Specification

Technical Data Sheet

Product Name	Phenol crystals - Pharma Grade
Product No	66917197
CAS Number	108-95-2
Storage Temperature	Ambient
Molecular Weight	94.11
Specification	
Colour (Pt-Co)	≤ 10 Hazen units (ASTM D1686)
Grade	Complies with USP/BP/Ph.Eur Monograph
Water	≤ 0.05% (ASTM D1631)
Acetone	≤ 1ppm (GLC)
Assay	99.0 - 100.5%
Purity	≥ 99.9% wt. (Calculated)
Distillation Range	181 - 182°C
Non-Volatile Matter	≤ 10ppm (Gravimetric)
Total Impurities	≤ 0.005% (GLC)
Toluene	≤ 1ppm (GLC)
Congealing point	≥ 39°C
Chlorine	≤ 2ppm (Colorimeter)
Carbonyl Compounds	≤ 0.01% (as Mesityl Oxide)
Appearance	Colourless or faintly pink or faintly yellowish crystals
Iron (Fe)	≤ 0.2ppm (ICP-MS)
Benzene	≤ 1ppm (GLC)
o-cresol	≤ 0.0075% (GLC)
Water solubility	solution 1:12 clear @ 20°C
Identification (IR)	Conforms to Reference
Colour Test	Conforms to USP Monograph
Solidification Point	≥ 40.6°C (ASTM D1493)
Hydroxyacetone	≤ 0.0002% (GLC)
Acetophenone	≤ 0.0001% (GLC)
Specific Density	~ 1.05g/ml (Gravimetric)
3-Methylcyclopentanone	≤ 0.0009% (GLC)
Alpha-Methylstyrene	≤ 0.0001% (GLC)
2-Methylbenzofuran	≤ 0.01% (GLC)
Methylethylketone	≤ 1ppm (GLC)

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Sulphur (S)	≤ 2ppm (ICP-MS)
Cumene	≤ 1ppm (GLC)
Methylisobutylketone	≤ 1ppm (GLC)
Precipitation Test	Conforms to USP Monograph