TECHNICAL BROCHURE
Nº 550500

CHEMICALS

AROMATIC AND ALICYCLIC SOLVENTS

CYCLOHEXANE

This naphthenic or cycloparaffinic product is obtained by the catalytic hydrogenation of benzene. It is a crystalline, high-purity product whose solubility is similar to that of paraffinic products. Its chemical structure is in a ring shape with six saturated carbon atoms.

APPLICATIONS

Its main use is in the synthesis of caprolactam, adipic acid and hexamethylenediamine to produce different types of nylon and polyamides. Cyclohexane is also used as solvent in cellulose esters, resins, paints, oil extraction, etc.

SPECIFICATIONS

Analysis	Specifications	Methods
Density at 15 °C (g/ml)	0.7810-0.7850	ASTM D4052
Distillation range (°C)	1 max. incl. 80.7	ASTM D1078
Solidification point (°C)	min. 6.4	ASTM D852
Saybolt colour	min. +30	ASTM D6045
Benzene (mg/kg)	max. 50	ASTM D3054-98
Toluene + benzene (mg/kg)	max. 130	ASTM D3054-98
N-hexane (mg/kg)	max. 200	ASTM D3054-98
N-Heptane (mg/kg)	max. 100	ASTM D3054-98
Non volatile residue (mg/100 ml)	max. 0.5	ASTM D1353
Sulphur (mg/kg)	max. 1	ASTM D4045 / ASTM D5453 / UOP 987
Total nitrogen (mg/kg)	max. 1	ASTM D4629
Methyl cyclopentane (mg/kg)	max. 150	ASTM D3054-98
Methyl cyclohexane (mg/kg)	max. 150	ASTM D3054-98

April 2026 REV.: 13

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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Total impurities (mg/kg)	max. 1000	ASTM D3054-98
Purity (wt%)	min. 99.9	ASTM D3054-98
Appearance	Bright, clear liquid, free from foreign matter and sediments	Visual

NOTE: product without antistatic additives (typical conductivity < 25 pS/m).

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