

Technical Data Sheet

GUM TURPENTINE OIL

OCTOBER 2025

Description

Gum turpentine is the volatile fraction resulting from the distillation of oleoresins collected from softwood.

Chemical name: Turpentine oil

CAS N°: 8006-64-2

EC N°: 932-349-8

Appearance: Colourless liquid

Odour: Mild characteristic odour

Composition

Turpentine consists of four classes of products: terpene hydrocarbons, terpene alcohols, ethers and sesquiterpenes. The components present in greatest quantity are unsaturated bicyclic monoterpenes with the molecular formula C₁₀H₁₆, the most predominant being α pinene and β pinene.

Technical specifications

ANALYSIS	SPECIFICATIONS LIMITS	METHOD
Appearance	Liquid	ISO 11020
Colour	Colourless or slightly yellow	ISO 11020
Optical Rotation (°)	[-35,5 – -28,5]	ISO 592
Relative density (20 °C)	[0,861 – 0,868]	ISO 279
Acid Value (mg KOH/g)	[0,5 – 1,4]	ISO 1242
Peroxide Value (meq/kg)	≤ 23	IFRA Analytical Methods
Refractive Index (20 °C)	[1,465 – 1,478]	ISO 280
Chromatographic profile	Conforme	ISO 7609 Polar
α -pinene (%)	[69 – 81]	–
β -pinene (%)	[11 – 20]	–
Limonene (%)	[0 – 7]	–
Solubility	Soluble in aromatic and chlorinated hydrocarbons, esters and ketones. Partially soluble in aliphatic hydrocarbons.	

Applications

Gum turpentine is used as diluent or solvent in paints, varnishes, waxes and polishes; in the synthesis of resins with excellent adhesive and thermoplastic properties, pesticides, additives for oils, pine oil and camphor (used in the pharmaceutical industry); in the processing of textile fibers, solvents, deodorants, cleaning products and bactericidal; in the production of adhesives, polishes, additives for paper and synthetic rubbers; in the fragrance industry.

Storage

Store in cool well-ventilated place. Keep container tightly. Keep away from sources of ignition. Protect from heat and direct sunlight. Shelf life of 12 months, under normal storage conditions.

Packaging

Jerricans (25L) | Lacquered drums (180 kg / 160 kg) | IBC's (860 kg) | Tanks