

**Technical Data Sheet**

**Toluene  
GRADE I**

Toluene also known as toluol, is a colorless, water-insoluble liquid with the smell associated with paint thinners. It is a mono-substituted benzene derivative, consisting of a CH<sub>3</sub> group attached to a phenyl group. As such, its IUPAC systematic name is methylbenzene. It is an aromatic hydrocarbon.

**Applications:**

As the solvent in paint thinner, contact cement and model airplane glue, Toluene is mainly used as a precursor to benzene via hydrodealkylation. The second ranked application involves its disproportionation to a mixture of benzene and xylene. toluene is a feedstock for toluene diisocyanate (used in the manufacture of polyurethane foam), trinitrotoluene (the explosive, TNT), and a number of synthetic drugs.

Toluene is a common solvent, e.g. for paints, paint thinners, silicone sealants, many chemical reactants, rubber, printing ink, adhesives (glues), lacquers, leather tanners, and disinfectants.

Toluene can be used as an octane booster in gasoline fuels for internal combustion engines.

In the laboratory, toluene is used as a solvent for carbon nanomaterials, including nanotubes and fullerenes, and it can also be used as a fullerene indicator. Toluene is used as a cement for fine polystyrene kits. Toluene has also been used as a coolant for its good heat transfer capabilities in sodium cold traps used in nuclear reactor system loops.

Properties	Acceptance Criteria*	Units	Test Method
Purity	Min 98	%wt.	UOP-744
Others**	Max 2	%wt.	UOP-744

\*Acceptance Criteria refers to the parameters which are tested regularly. These items are guaranteed figures.

\*\*Total NonAromatics, Benzene, Ethylbenzene, Xylene, Styrene and Heavier.