

Tetrahydrofuran (THF)

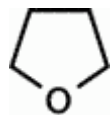
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BASF
The Chemical Company

Technical Data Sheet

October 2005

FormulaC₄H₈O
Molecular Weight139.2
PRD Number..... 30076724
CAS Registry Number.....109-99-9



| Product Specifications | Value | Test Method |
|--|---------|-------------|
| Assay, % minimum | 99.95 | 8429 |
| Water, ppm maximum | 150 | 8432 |
| Color, APHA maximum | 10 | 10605 |
| Peroxide, ppm maximum | 10 | 8420 |
| 2,6-Di-tert-butyl-4-methyl-phenol, ppm | 250-400 | 8425 |
| Residue, ppm maximum TYPICAL | 8 | 8428 |

Physical Properties

| | |
|----------------------------------|-----------|
| Melting Temperature, °C | -108.50 |
| Boiling Temperature, °C | 65.5-66.5 |
| Density @20°C, g/cm ³ | 0.8870 |
| Flash Point, °C | -22 |
| Ignition Temperature, °C | 215 |

Description

THF is a colorless liquid, with an odor of acetone. It is miscible in water and many organic solvents.

Synonyms

THF

Safety

THF is highly flammable. May form explosive peroxides. It is irritating to eyes and respiratory system.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

Applications

Intermediate used in the production of:

- Pharmaceuticals
- Solvents

Packaging

Available in bulk and drums.

Storage & Handling

THF has a shelf life of 12 months in unopened, original containers. The product is stabilized; the shelf life should be noted. It must be protected from air/oxygen, fire and sources of ignition. Also prevent electrostatic charge. Ensure thorough ventilation of work and storage area. Handle under inert gas.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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