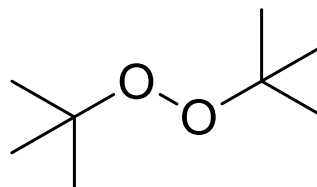


## Technical Data Sheet

### DTBP

- **Name:** Di(Tert-Butyl)Peroxide
- **Molar weight:** 146.2 g/mol



Properties	
Appearance	Colorless liquid
Odor	Menthol
Purity (GC)	> 98%
Active oxygen (calculated)	> 10.4%
Density at 20 °C	Approx. 0.79 g/cm <sup>3</sup>
Viscosity at 20 °C	Approx. 0.8 mPa.s
Vapor pressure at 25 °C	3.5 kPa
Freezing point	< -29 °C
Boiling point	The substance decomposes before boiling
Miscibility	Immiscible with water, miscible with organic solvents
Explosive properties	Non-explosive
TBHP	< 0.5%
Cold storage stability	Liquid to below -25 °C

### Description

Colorless, mobile liquid, consisting of technically pure Di(tert.butyl) peroxide. Dialkyl peroxide is used as an initiator (radical source) in the polymerization of monomers and crosslinking of polyethylene

### Half-life data

Activation energy	35.1 kcal/mole
10 hr. half-life	temp 126 °C
1 hr. half-life	temp 149 °C
1 min. half-life	temp 193 °C

### Storage and Handling

Recommended storage temperature: Below 40 °C

DTBP has to be handled with caution due to its potential in vivo genotoxic properties.

### Safety

Peroxides and decomposition products are flammable and can ignite with explosive force if confined. May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.