



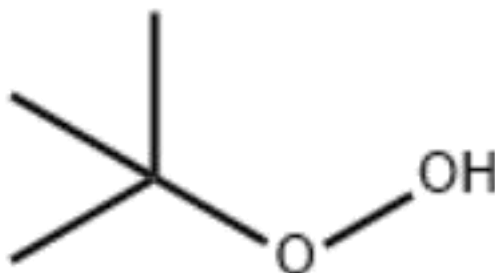
## Tert-Butyl hydroperoxide

CAS: 75-91-2

EINECS: 200-915-7

Molecular formula: C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>

Molecular structure:



### Description:

Tert-Butyl hydroperoxide (TBHP) is one of the most commonly used alkyl hydroperoxides. The products are generally light yellow transparent non-volatile liquid, slightly soluble in water, and miscible with organic solvents.

### Specification:

Appearance	White transparent liquid
Molecular weight	90.12
Melting point	-2.8 °C
Boiling point	37 °C (15 mmHg)
Density	0.94 g/mL at 20 °C
Refractive index	n <sub>20</sub> /D 1.403
Flash point	43°C
Storage	Warehouse ventilation and low temperature drying
Shelf Life	2 Years
UN	3109

### Applications

Emulsion polymerization, sulfur addition to natural rubber, improvement of cetane number of diesel fuel, introduction of tert butyl peroxide, medium and high temperature crosslinking agent of unsaturated polyester. It can be used as initiator of anaerobic adhesive and fast curing acrylate structural adhesive. It is also used as initiator for polymerization (elimination of acrylic emulsion polymerization monomer).