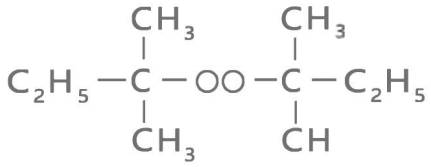
HEMA P100

Chemical name	Di-Tert-amyl peroxide	
	**Molecular formula**	**$C_{10}H_{21}O_2$**
	Molecular weight	**174.3**
	CAS NO.	**10508-09-5**
	Theoretical active Oxygen	**8.81%**
	UN No.	**3107**

1. Specification：

Appearance	Clear liquid
Assay	96.0%
Active oxygen	8.81%
TAHP	0.5% max
Density, 25°C	818 kg/m^3

2. Half Life Data

- 0.1 hr. Half Life Temp……. 184°C°C
- 1 hr. Half Life Temp…… 143°C
- 10 hr. Half Life Temp…….. 123°C

3.Safety Data

- Ts max. 30°C
- Division 5.2; UN 3107; PG II

4. Package and Storage

- The standard packaging is a 25-liter HDPE can for 20 kg peroxide solution.
- DTAP is classified as Organic peroxide type E, liquid; Division 5.2; UN 3107; PG II.

5. Application

- **Polymerization of acrylates and methacrylates**

  DTAP can be used as initiator for the solution (co)polymerization of acrylates and methcrylates.
- **Polymerization of ethylene**

  DTAP is an efficient initirtor for the ethylene polymerization under high pressure in both autoclave and tubular processes.