

Technical Data Sheet (TDS)

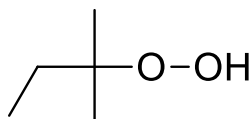
TAHP-88
Polymerisation (PO)



TAHP-88

tert-Amyl hydroperoxide
CAS#3425-61-4
Colourless liquid

Structural Formula



Description

Colourless, mobile liquid, consisting of approx. 88 % *tert*-amyl hydroperoxide, desensitised with water. This alkyl hydroperoxide is used as an initiator for the polymerisation of monomers preferably in emulsion polymerisation processes for e.g. vinyl acetate or (meth-)acrylates.

Technical Data

Appearance	colourless liquid
Desensitising agent	water
Assay	approx. 88 % w/w
Active oxygen (AO)	approx. 13.5 % w/w
Density at 20 °C	approx. 0.92 g/cm ³
Viscosity at 20 °C	approx. 5.2 mPa·s
Refractive index at 20 °C	approx. 1.41
Flash point	approx. 47 °C
Critical temperature (SADT)	> 80 °C
Cold storage stability	freezing point below 0 °C
Recommended storage temperature	2 °C to 35 °C ●
Storage stability as from date of delivery	12 months

Standard Packaging

25 kg HDPE canisters
190 kg HDPE drums (for supply ex Germany)

Half-life Data

10 h / 1 h / 1 min (chlorobenzene, 0.1 mol/L) 153 °C / 190 °C / 228 °C

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Application

EMULSIONS POLYMERISATION:

Initiator for the emulsion polymerisation of vinyl acetate, (meth-)acrylates, acrylic resin paint dispersions, styrene / butadiene or acrylonitrile / butadiene / styrene in combination with suitable reducing agents (Fe salts, etc.)

Temperature range: 50 - 80 °C

Dosage level: 0.1 - 0.5 % as supplied

Decomposition Products

Possible detectable decomposition products: *tert*-amyl alcohol, acetone and 2-butanone

Storage

Avoid any source of heat, light, humidity and protect the product from impurities.
Keep within safe temperature limits.

Disclaimer:

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