Technical Data Sheet

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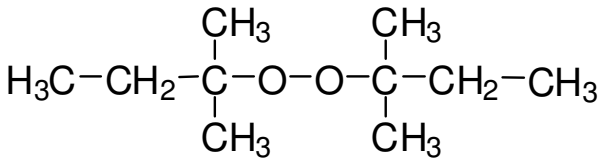
DTAP

Di(tert.-amyl)peroxide
CAS#10508-09-5
Liquid, techn. pure
Molar mass: 174.2 g/mol

Structural Formula



Description

Slightly yellowish, mobile liquid, consisting of technically pure Di-(tert.amyl) peroxide. This liquid dialkyl peroxide is used as an initiator (radical source) in the polymerisation of monomers, like e.g. ethylene, styrene, and (meth)acrylates.

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Appearance	yellowish liquid
Purity (GC)	approx. 97 %
Active oxygen (calculated)	approx. 8.9 % w/w
De-sensitising agent	none
Density at 20 °C	approx. 0.83 g/cm^3
Viscosity at 20 °C	approx. 1.3 mPa.s
Refractive index at 20 °C	approx. 1.409
Critical temperature (SADT)	approx. 80°C
Cold storage stability	below -25°C
Recommended storage temperature	below 30°C
Storage stability (activity) as from date of delivery	6 months

This product is in compliance with the ElektroG
(E U-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

Half-life-time

10 h/1 h/1 min (0.1 m/benzene): 118/142/193 °C

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Application

(METH-)ACRYLATES:
Initiator for the polymerisation in mass and solution, especially for the production of high-solid varnishes.
Temperature range: 160-200°C.
More selective radical formation, therefore narrower MW-distribution, lower viscosity and higher solid contents can be achieved compared to Di(tert.butyl)peroxide (DTBP).

OTHER MONOMERS:
Ethylene: High-pressure polymerisation combined with thermally active peroxides.
Temperature range: 220-280°C.

STYRENE:
(Co-)Polymerisation of styrene, possibly with other monomers in bulk or in solution.
Temperature range: 140-180°C.
Special advantage: Reduction of residual monomer content in the polymer.

Standard Packaging

20kg HDPE canister

United Initiators
EU
T: +49 89 74422 237
F: +49 89 74422 6237
cs-initiators.eu@united-in.com

United Initiators
Nafta
T: +1 800 231 2702
F. +1 440 323 0898
cs-initiators.nafta@united-in.com

United Initiators
China
T: +86 20 6131 1370
F: +86 139 2503 8952
cs-initiators.cn@united-in.com

United Initiators
Australia
T: +61 2 9316 0046
F: +61 2 9316 0034
cs-initiators.au@united-in.com

www.united-initiators.com

Revision number: 1.0. Date: 26.01.2016 Device M: TDS.