

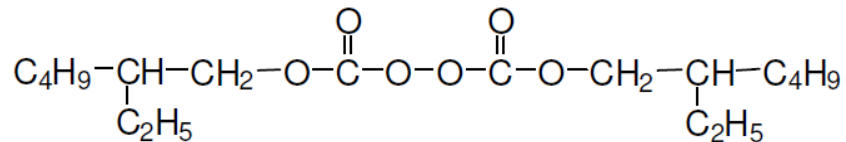
Technical Data Sheet (TDS)

EHPC-75-AL
Polymerisations (PO)

EHPC-75-AL

Di-2-ethylhexyl peroxydicarbonate
CAS#166111-62-9
Colourless liquid

Structural Formula



Description

Colourless liquid consisting of ca. 75 % Di-2-ethylhexyl peroxydicarbonate, desensitised with aliphatic hydrocarbons. This branched, aliphatic peroxydicarbonate is used as a radical initiator for the polymerisation of monomers, mainly vinyl chloride (VCM).

Technical Data

Appearance	colourless liquid
Desensitising agent	aliphatic hydrocarbons
Assay	ca. 75 % w/w
Active oxygen (AO)	ca. 3.47 % w/w
Density at 20 °C	ca. 0.90 g/cm ³
Viscosity at 20 °C	ca. 6.4 mPa.s
Critical temperature (SADT)	ca. 5 °C
Cold storage stability	ca. -25 °C
Recommended storage temperature	-20 °C
Maximum transport temperature	-20 °C
Storage stability as from date of delivery	3 months

Standard Packaging

25 kg in HDPE canister

Half-life Data

10 h / 1 h / 1 min (benzene, 0.1 mol/L) 41 °C / 57 °C / 90 °C

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Application

VINYLCHLORIDE

Initiator for the polymerisation of VCM in suspension and micro suspension.

Temperature range: 45 - 60 °C

Usage level: 0.02 - 0.1 %

Advantages: liquid, therefore easy to dose and a high activity

A constant rate of polymerisation can be achieved in combination with other, thermally more stable peroxides (e.g. Dilauroylperoxide).

ETHYLENE

Initiator for the high-pressure polymerisation of ethylene in combination with thermally more stable peroxides (e.g. Dilauroylperoxide).

Temperature range: 120 - 180 °C

Particular advantages: highly efficient, liquid, readily miscible with high boiling aliphatics.

Further information on suitable initiators for the polymerisation of monomers is given in our application brochures on this subject.

Decomposition Products

Possible detectable decomposition products: carbon dioxide, 2-Ethylhexanol

Storage

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

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