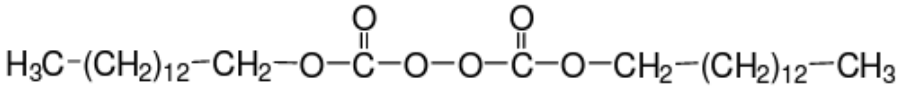
MYPC

Dimyristylperoxydicarbonate
IUPAC name: Ditetradecyl peroxydicarbonate
CAS#53220-22-7
White, greasy flakes
Molar mass: 514.7 g/mo

Structural Formula



Description

White, greasy flakes, consisting of technically pure Dimyristylperoxy-dicarbonate. This long-chained aliphatic peroxydicarbonate is used as an initiator (radical source) in the polymerisation of monomers, e.g. vinyl chloride.

Technical Data

Appearance	white, greasy flakes
Assay	ca. 97 % w/w
Active oxygen (AO)	ca. 3.01 % w/w
Bulk density at 25 °C	ca. 440 kg/m^3
Melting point	ca. 45 °C
Critical temperature (SADT)	ca. 35 °C
Maximum transportation temperature	20 °C
Recommended storage temperature	below 20 °C
Storage stability as from date of delivery	6 months

Standard Packaging

20 kg cardboard

Half-life Data

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

Application

VINYLCHLORIDE:
Initiator for the polymerisation of vinyl chloride in bulk or suspension.
Temperature range: 45 - 60 °C
Dosage level: 0.03 - 0.15 %
Particular advantages:

- less crust formation in the reactor
- less "fish-eyes" in the polymer

We recommend a combination with thermally more stable peroxides, e.g. Dilauroyl peroxide (LP).
A well-balanced combination produces an almost constant rate of polymerisation throughout the reaction period.
The flakes enable almost dust-free handling (pouring, dosing).

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: Myristylalcohol, Carbon dioxide

Storage

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

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