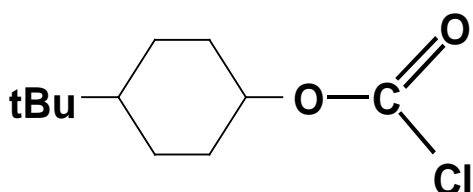


4-t BUTYL CYCLOHEXYL CHLOROFORMATE



Molecular formula :	C ₁₁ H ₁₉ ClO ₂
Molecular weight	219
CAS number	42125-46-2
EC number	255-670-9

SYNONYM

Carbonochloridic acid, 4(1,1-dimethyl ethyl) cyclohexyl ester.

ASPECT

Colorless liquid with a pungent odor.

PHYSICAL PROPERTIES

Density d ₄ 20:	1.036
Boiling point:	52 °C / 77 Hgmm
Melting point:	- 17,5 °C
Solubility:	

- Soluble in usual organic solvents (acetone, chloroform, toluene, THF).

CHEMICAL PROPERTIES

- Reacts by hydrolysis, yielding hydrochloric acid and 4-t-buthyl cyclohexanol.
- Reacts with alcohols yielding carbonates.
- Reacts with amines yielding carbamates.

USES

- Organic synthesis intermediate.
- Synthesis intermediate for polymerization initiators.

4 t BUTHYL CYCLOHEXYL CHLOROFORMATE

specifications

Parameter	Guaranteed Value	Method	Operating Procedure
Aspect	Clear liquid		
Color	≤ 50 APHA	Colorimetry	C-210
Purity	≥ 97,0 %	Acidimetry	A - 245
Phosgene + hydrogen chloride	≤ 0,05 %	Iodometry+Acidimetry	I-230+A220
Carbon tetrachloride	≤ 0,03 %	Gas chromatography	GC - 395
Iron	≤ 1 ppm	Colorimetry	C-810

PACKAGING

IBC containing 1000 kg.

HANDLING PRECAUTIONS

- Physico-chemical hazard
Flash point (tag closed cup):
106 °C
- Health hazards
LD 50 (ingestion rat): 4660 mg/kg.
Slightly irritating on skin, mucous membrane and eyes. Corrosive.
- Recommended
Avoid contact with metallic compounds (especially iron salts) which catalyse its decomposition.
When handling this product, wear gloves, goggles, mask and protective clothes.
If eyes or skin are contaminated, wash immediately with clean water for at least 15 minutes. In case of inhalation of concentrated vapors, take person to fresh air. In both cases, consult a physician.
- Neutralization
Neutralize by reaction with a basic solution.

STORAGE

The product is not very stable at room temperature: It must be used as soon as possible after its delivery.

The rate of decomposition increases with temperature, moisture and in contact with metallic salts.

Decomposition yields hydrochloric acid and CO₂ which may increase the internal pressure in the packaging. In this case the container must be opened carefully and the product's parameters have to be checked.

Therefore the product must be stored under refrigeration: below 0 °C it is stable for a few months.

TRANSPORT

Refer to MSDS.

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