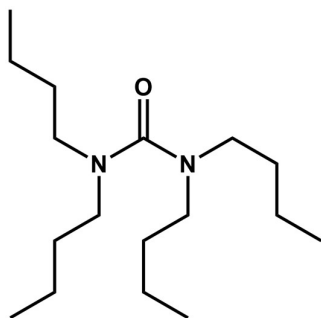


DATA SHEET Nr 7001 D
TETRABUTYL UREA
TBU



Molecular formula: C₁₇H₃₆N₂O

Molecular weight: 284.48

CAS number: 4559-86-8

EC number: 224-929-8

SYNONYMS

1,1,3,3-Tetrabutylurea
N,N,N',N'-Tetrabutyl urea

APPEARANCE

Clear liquid

PHYSICAL PROPERTIES

Density: 0.88 g/cm³

Boiling point: 125 - 130 °C (1 Torr)

Solubility:

Soluble in usual organic solvents: (acetone, chloroform, toluene, THF). Insoluble in water

USES

- Useful high-boiling-point solvent used frequently in hydrogen peroxide production
- Used as a degreaser and cleaning agent.

TETRABUTYL UREA TBU

SPECIFICATION

Parameter	Guaranteed value	Method	Operating procedure
Appearance	Clear liquid	Visual	
Colour	≤ 20 APHA	Colorimetry	C-210
Purity	$\geq 99,0$ %	Gas chromatography	GC-624
Chloride	≤ 10 ppm	Argentometry	AR-720
Dibutylamine	$\leq 0,1$ %	Gas chromatography	GC-624
Water	$\leq 0,05$ %	Karl Fischer	KF-111

PACKAGING

Polyethylene drums containing 180 kg.

In Bulk

HANDLING PRECAUTIONS

- Physicochemical hazard:
Flash point (closed cup): 140 °C
- Health hazards:
LD 50 (oral, rat): >7500 mg/kg
- Corrosive; irritating to skin, mucous membranes and eyes
- Recommended:
Approved safety eyewear, chemically resistant gloves and laboratory-appropriate chemical resistant clothing are recommended when handling.

In case of contact with eyes, flush for a minimum of 15 minutes with fresh water and contact a physician.

In case of acute inhalation, remove the contaminated individual to fresh air and seek medical assistance.

- Destruction:
Incineration

STORAGE

Store in its original container, in a covered, dry, cool and well-ventilated area, protected from exposure to direct sunlight.

In the case of prolonged storage, re-analyze for purity.

TRANSPORTATION

Refer to MSDS

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