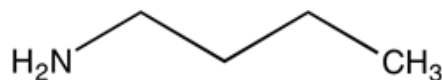


**Identification**

C<sub>4</sub>H<sub>11</sub>N  
M = 73,14 g/mol  
CAS [109-73-9]  
EC number: 203-699-2  
Taric code: 2921 19 80

**Synonyms**

1-Aminobutane

**Applications**

synthesis of organic products, for pharmaceuticals synthesizing, manufacture of dyes, in the rubber industry, emulsifier, insecticide, cosmetics.

**Specifications**

assay (G.C.).....	min. 99,5 %	heavy metals (as Pb).....	max. 0,5 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,5 ppm
density (20°/4°).....	0,736 - 0,738	residue on evaporation.....	max. 0,0005 %
chlorides (Cl).....	max. 0,0005 %	water (K.F.).....	max. 0,1 %

**Physical data**

- Density: 0,74 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -50 °C
- Boiling point: 76 - 78 °C
- Flash point: -12 °C
- Ignition temperature: 290 °C
- Vapour pressure: (20 °C) 93 hPa
- Refraction index: (n 20 °C/D) 1,4015
- Expl. limit (upper): 9,8 Vol%
- Expl. limit (lower): 1,5 Vol%
- pH(100 g/l H<sub>2</sub>O, 20 °C) 12,6

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H225: Highly flammable liquid and vapour.  
H314: Causes severe skin burns and eye damage.  
H302: Harmful if swallowed.  
H311: Toxic in contact with skin.  
H331: Toxic if inhaled.  
H335: May cause respiratory irritation.

**Precautionary Statements:**

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 3 FC II • UN 1125 • n-BUTYLAMINE
- IMDG: 3 II • UN 1125 • N-BUTYLAMINE
- IATA/ICAO: 3 II • UN 1125 • N-BUTYLAMINE
- PAX: 305
- CAO: 307
- 15°C - 25°C