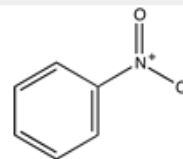


**Identification**

$C_6H_5NO_2$   
 M = 123,11 g/mol  
 CAS [98-95-3]  
 EC number: 202-716-0  
 Taric code: 2904 20 00


**Synonyms**

Nitrobenzol, Essence of mirbane

**Applications**

synthesis of organic products, cosmetics, in lubricant compositions.

**Specifications**

assay (G.C.).....	min. 99,5 %	iron (Fe).....	max. 0,00001 %
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,00001 %
density (20°/4°).....	1,201 - 1,205	magnesium (Mg).....	max. 0,00001 %
boiling point.....	210 - 212 °C	manganese (Mn).....	max. 0,000002 %
water-soluble titrable acid.....	max. 0,0005 meq/g	nickel (Ni).....	max. 0,00001 %
chlorides (Cl).....	max. 0,0005 %	zinc (Zn).....	max. 0,000002 %
cadmium (Cd).....	max. 0,000005 %	1,2-dinitrobenzene (G.C.).....	max. 0,005 %
calcium (Ca).....	max. 0,00005 %	1,3-dinitrobenzene (G.C.).....	max. 0,005 %
chromium (Cr).....	max. 0,000002 %	1,4-dinitrobenzene (G.C.).....	max. 0,005 %
cobalt (Co).....	max. 0,000002 %	residue on ignition.....	max. 0,0005 %
copper (Cu).....	max. 0,000002 %	water (K.F.).....	max. 0,05 %

**Physical data**

- Density: 1,20 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 1,90 g/l
- Melting point: 6,0 °C
- Boiling point: 211 °C
- Flash point: 88 °C
- Ignition temperature: 480 °C
- Vapour pressure: (20 °C) 0,3 hPa
- Refraction index: (n 20 °C/D) 1,55296
- Dipolar moment: (20 °C) 4 Debye
- Dielectric const.: (20 °C) 34,8
- Evap. heat: (20 °C) 414 KJ/kg
- Saturation conc.: (20 °C) 1 g/m<sup>3</sup>
- Expl. limit (upper): 40 Vol%
- Expl. limit (lower): 1,8 Vol%
- pH(1 g/l H<sub>2</sub>O, 20 °C) ~ 8,1

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

- H301: Toxic if swallowed.  
 H311: Toxic in contact with skin.  
 H331: Toxic if inhaled.  
 H372: Causes damage to organs through prolonged or repeated exposure.  
 H351: Suspected of causing cancer.  
 H361f: Suspected of damaging fertility.  
 H411: Toxic to aquatic life with long lasting effects.


**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
 P280: Wear protective gloves / protective clothing / eye protection / face protection.  
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P321: Specific treatment (see on this label).  
 P405: Store locked up.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 6.1 T1 II • UN 1662 • NITROBENZENE
- IMDG: 6.1 II • UN 1662 • NITROBENZENE
- IATA/ICAO: 6.1 II • UN 1662 • NITROBENZENE
- PAX: 609
- CAO: 611
- 10°C - 30°C