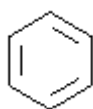


**PRODUCT CODE: 361192****Benzene for UV, IR, HPLC, GPC, ACS** $C_6H_6$  $C_6H_6$ 

M.= 78,11

CAS [71-43-2]

EINECS 200-753-7

TARIC 2902 20 00 00

**SYNONYMS:** Benzol, Cyclohexatriene

**PHYSICAL DATA:** liquid, Clear, Colourless, Soluble in water 0,7 g/l at 20 °C D 20/4 0,878 • M.P.: 5,5 °C • B.P.: 80,1 °C • n<sub>20/D</sub> : 1,5011 • Flash P.: -11 °C • Ign. T.:555 °C • Vap. press. (20 °C) 101 hPa • Viscosity 25 °C 0,66 mPa.s • Dielec. constant 20 °C 2,3 • Evap. number (DIN 53170) 3 • Heat evap. 80 °C 550 KJ/Kg • Satur. conc. 20 °C 319 g/m<sup>3</sup> • Expl. limit 1,4 % (V) 8 % (V) •

**BIBLIOGRAPHY:** Merck Index **12**, 1.094 13, 1.066 Sax **BBL250** • Safety **2** , **349 A** • Kühn-Birett **B 12** • Ullmann (5.)3 , 475 • Beilstein **5**, **179 I** , **95 II** , **119 III** , **469 IV** , **583** • BRN 969212 • ACS **XI** • ISO 6353/3-1987 R - 48 , 11 •

**HAZARDOUS:** C.E: 601-020-00-8 • RTECS: CY 1400000 • LD L0 oral man 50 mg/kg • LD50 oral rat 930 mg/kg • TC L0 man 100ppm • LC50 inh rat 10000 ppm / 7h • VLA-ED 9,7 mg/m<sup>3</sup>



H: H350 • H340 • H225 • H319 • H315 • H372 • H304 •

P: P201 • P202 • P210 • P233 • P240 • P241 • P242 • P243 • P260 • P264 • P270 • P280 • P281 • P301+P310 • P302+P352 • P303+P361+P353 • P305+P351+P338 • P307+P311 • P308+P313 • P321 • P331 • P332+P313 • P337+P313 • P362 • P370+P378 • P403+P235 • P405 • P501 •

**TRANSPORT REGULATIONS:** UN: 1114 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •**WEIGHT/VOLUME INFORMATION:** 1l~0,879 kg      1kg~1,138 l

**OBSERVATIONS:** May be subject to export control •

**SPECIFICATIONS:**

Minimum assay (G.C.)	99,8%
Density at 20/4	0,877-0,878
<b>Maximum limit of impurities</b>	
APHA colour	10
Acidity	0,0001 meq/g
Alkalinity	0,0001 meq/g
Non-volatile matter	0,0003 %
Darkened substances by H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfur compounds (as CS <sub>2</sub> )	0,0003 %
Thiophene (C <sub>4</sub> H <sub>4</sub> S)	0,0001%
Water (H <sub>2</sub> O)	0,01 %
Suitability for IR spectrometry:	passes test
Fluorescence at 365 nm (as quinine)	2 ppb
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 278 (Cut off) nm	<sup>3</sup> 10 %
Transmittance at 280 nm	<sup>3</sup> 25 %
Transmittance at 285 nm	<sup>3</sup> 70 %
Transmittance at 290 nm	<sup>3</sup> 80 %
Transmittance at 300 nm	<sup>3</sup> 90 %
Transmittance at 320 nm	<sup>3</sup> 95 %
Transmittance at 340-450 nm	<sup>3</sup> 98 %
Data of interest in HPLC:	
P' + 0,25 E	3,6
Rohrschneider Polarity	2,7
Elutropic value E° (Al <sub>2</sub> O <sub>3</sub> )	0,32
Sol. H <sub>2</sub> O in solv. at 20°C	0,058

**For critical jobs, purge with nitrogen.**

**Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.**