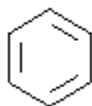


PRODUCT CODE: 361192

Benzene for UV, IR, HPLC, GPC, ACS

C₆H₆

C₆H₆



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_{20/D} : 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/m³ • 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/m³



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
Maximum limit of impurities	
APHA colour	10
Acidity	0,0001 meq/g
Alkalinity	0,0001 meq/g
Non-volatile matter	0,0003 %
Darkened substances by H ₂ SO ₄	passes test
Sulfur compounds (as CS ₂)	0,0003 %
Thiophene (C ₄ H ₄ S)	0,0001%
Water (H ₂ 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	≥ 10 %
Transmittance at 280 nm	≥ 25 %
Transmittance at 285 nm	≥ 70 %
Transmittance at 290 nm	≥ 80 %
Transmittance at 300 nm	≥ 90 %
Transmittance at 320 nm	≥ 95 %
Transmittance at 340-450 nm	≥ 98 %
Data of interest in HPLC:	
P' + 0,25 E	3,6
Rohrschneider Polarity	2,7
Elutropic value E° (Al ₂ O ₃)	0,32
Sol. H ₂ O in solv. at 20°C	0,058

For critical jobs, purge with nitrogen.

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