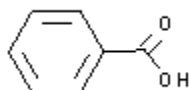


PRODUCT CODE: 141014

Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade

$C_7H_6O_2$

C_6H_5COOH



M.= 122,12

CAS [65-85-0]

EINECS 200-618-2

TARIC 2916 31 00 90

SYNONYMS: Benzenecarboxylic acid, Phenylformic acid

PHYSICAL DATA: crystalline powder, White, in water at 20°C M.P.: 122,4 °C(Handbook) • B.P.: 249,2 °C (Handbook) • pH(Handbook)25 °C2,8 • Vap. press. (96 °C) 1,3 hPa(Handbook) • Sublime100 °C •

BIBLIOGRAPHY: Merck Index **13**, 1.092 Sax **BCL750** • Safety **2**, **360 A** • Römp **8**, **400** • Beilstein **9**, **92 I**, **54 II**, **72 III**, **360 IV**, **273** • BRN 636131 • Fieser 149 • ACS **XI** • BP.**2025** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **12 13** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 BRETH: 669 •

HAZARDOUS: RTECS: DG 0875000 • LD50 oral rat 2.565 mg/kg / (OECD 423) • NOAEL oral rat >500 mg/kg / Not classified as toxic for reproduction., Risk of aspiration., Not classified. • LC50 rat 12.2mg/l / 4h, (OECD 402) • NOAEL rat 250mg/m3 / Specific organ toxicity (repeated exposure);, May cause respiratory irritation. • LD50 skn rbt 2.000 mg/kg / (OECD 403) • NOAEL skn rat 2.500 mg/kg • DNEL Workers Dermal, long exposure (systemic) 34.7mg/kg/24h DNEL Workers Dermal, long exposure (local) 4.5mg/cm2 DNEL Workers Dermal, long exposure (systemic) 10,4 mg/m3 DNEL Workers Inhalation, long term (local) 6,3 mg/m3 DNEL Population, oral, long term (systemic) 25mg/kg/24h DNEL Population Inhalation, long term (systemic) 2,1 mg/m3 DNEL Population, Dermal, long exposure (systemic) 20.8mg/kg/24h DNEL Population, Dermal, long exposure (local) 2.7mg/cm2 DNEL Population Inhalation, long term (local) 1,3 mg/m3



H: H318 • H372 • H315 •

P: P260 • P264 • P270 • P280 • P305+P351+P338 • P501 • P310 • P314 • P302+P352 • P321 • P332+P313 • P362 •

SPECIFICATIONS:

Assay (Acidim.) calc. a.d.s.	99,5-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
Melting range	121-123°C

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in Cl_3CH	0,01 %
Insoluble matter in C_2H_5OH	passes test
Residue on ignition (as SO_4)	0,05 %
Sulfate (SO_4)	0,005%
Halogenated compounds and halides (as Cl)	0,03 %
Residual solvents (Ph.Eur/USP)	passes test
Oxidizable substances	passes test
Darkened substances	passes test
Water (H_2O)	0,7 %

Fe 0,001 %

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	5 ppm
As	1,5 ppm
Hg	1,5 ppm

Class 2A

Co	5 ppm
V	10 ppm
Ni	10 ppm

Class 2B

Tl	5 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3

Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	10 ppm
Sn	600 ppm
Cr	25 ppm