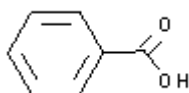
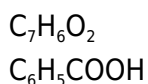


**PRODUCT CODE: 141014****Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade**

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.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) 6.4 • F.C.C **10 11** • 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 $\text{C}_2\text{H}_5\text{OH}$ | 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 |
| Oxidisable substances | passes test |
| Darkened substances | passes test |
| Water (H_2O) | 0,7 % |
| Heavy metals (as Pb) | 0,001% |

| | |
|----|---------|
| 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 |

Ed.: 7 . Vig.: 12.07.2017 .

Prod.: 141014