



**PRODUCT CODE: 141067**

**Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade**

$C_2HCl_3O_2$   
 $CCl_3COOH$



M.= 163,39

CAS [76-03-9]

EINECS 200-927-2

TARIC 2915 40 00 00

**SYNONYMS:** TCA

**PHYSICAL DATA:** crystals, White, Soluble in water 1.200 g/l at 20 °C Deliquescent • D 20/4 1,63 • M.P.: 57 - 58 °C • B.P.: 196 - 197 °C • pH(sol. 0.1 M)1,2 • Vap. press. (50 °C) 1 hPa •

**BIBLIOGRAPHY:** Merck Index **12**, 9.756 13, 9.700 Safety **2**, **3402 C** • Römp **8**, **4341** • Kühn-Birett **T 22** • Ullmann **(5.)6**, 545 • Beilstein **2**, **206 I**, **92 II**, **196 III**, **462 IV**, **508** • BRN 970119 • Fieser **11194 2425 4520** • ACS **XI** • BP.**2020** • USP **42** • Ph. Eur. **9.0** (2017) **10.0** (2020) •

**HAZARDOUS:** C.E: 607-004-00-7 • RTECS: Aj 7875000 • TDL0 oral rat 3.300 mg/kg • LD50 oral rat 5.000 mg/kg • VLA-ED 1 ppm6,8 mg/m3



H: H314 • H410 • H335 •

P: P260 • P264 • P273 • P280 • P301+P330+P331 • P501 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P310 • P321 • P363 • P405 • P261 • P271 • P403+P233 • P312 • P391 •

**TRANSPORT REGULATIONS:** UN: 1839 • ADR: 8/II • IMDG: 8/II • IATA: 8/II • PAX: 859 • CAO: 863 • (E) •

**SPECIFICATIONS:**

Assay (Acidim.) calc. a.d.s.	99,0-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test

**Maximum limit of impurities**

Appearance of solution	passes test
Insoluble matter in H <sub>2</sub> O	0,01 %
Loss on drying	1,0%
Residue on ignition (as SO <sub>4</sub> )	0,05 %
Chloride (Cl)	0,005%
Sulfate (SO <sub>4</sub> )	0,05%
Nitrate (NO <sub>3</sub> )	0,02%

Elemental impurities (ICH Q3D):

Class 1

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

Class 2A

Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

Tl	0,8 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	250 ppm
Sn	600 ppm
Cr	25 ppm