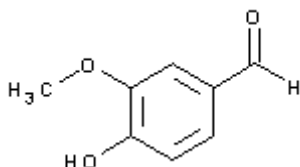


**PRODUCT CODE: 142048****Vanillin (USP-NF, BP, Ph. Eur.) pure, pharma grade**

 $C_8H_8O_3$ $C_8H_8O_3$ 

M.= 152,15

CAS [121-33-5]

EINECS 204-465-2

TARIC 2912 41 00 00

FEMA 3107

SYNONYMS: 3-Methoxy-4-Hydroxybenzaldehyde, 4-Hydroxy-3-Methoxybenzaldehyde**PHYSICAL DATA:** crystalline powder, White, Soluble in water 10 g/l at 20 °C D (20 °C) 1,056 • M.P.: 81 °C • B.P.: 154 °C 13 hPa • pH(10 g/l sol.)20 °C4,3 • Flash P.:160 °C(closed cup) • Vap. press. (25 °C) 0,0029 hPa •**BIBLIOGRAPHY:** Merck Index **12**, 10.069 13, 9.998 Sax **VFK000** • Safety **2** , **3593 D** • Ullmann (**5.**)11 , 199 • Beilstein **8** , **247 I** , **604 II** , **278 III** ,**2010 IV** , **1763** • BRN 472792 • BP.**2018** • USP -**NF 36** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** •**HAZARDOUS:** RTECS: YW 5775000 • LD50 oral rat 3.978 mg/kg • LD50 skn rat >2.000 mg/kg • PNEC Freshwater 0.118mg/l Freshwater 58,22 ppm Marine water 5,82 ppm Marine water 0.0118mg/l STP 10mg/l Soil 11,54 ppm DNEL Population, oral, acute (systemic) 10mg/kg bw/24h

H: H319 •

P: P305+P351+P338 • P501 •

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Assay (Acidim.) calc. a.d.s.	99,0-101,0%
Identity :	
Identity according to Pharmacopoeias:	passes test
Melting range	81-83°C
T.L.C.	passes test

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in C ₂ H ₅ OH	passes test
Darkened substances by H ₂ SO ₄	passes test
Loss on drying	1,0%
Residue on ignition (as SO ₄)	0,05 %
Residual solvents (Ph.Eur/USP)	passes test

Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)

Class 1A (Pt, Pd)	10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm
Class 2 (Cu, Mn)	250 ppm
Class 3 (Fe, Zn)	1.300 ppm

As	0,0001 %
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