

**PRODUCT CODE: 146224****Polyethylene Glycol 8000 (USP-NF, BP, Ph. Eur.) pure, pharma grade**

HO(C₂H₄O)_nHHO(C₂H₄O)_nH

CAS [25322-68-3]

EINECS 203-473-3

TARIC 3907 20 11 90

SYNONYMS: Carbowax 8000, Macrogol 8000, PEG 8000

PHYSICAL DATA: solid, waxy, White or almost white, Inmiscible with water. Miscible with methanol, ethanol, ether and chloroform M.P.: 55 °C • pH(100g/l)4 - 7 • Flash P.:260 °C • Ign. T.:330 °C • Vap. press. (20 °C) 0,1 hPa • Size particle <90micron 10-30% , 90-200micron 10-30% , >200micron 50-75%

BIBLIOGRAPHY: Merck Index **13**, 7.651 BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) 7.7 • F.C.C **10 11** •

HAZARDOUS: RTECS: TQ 4050000 • LD50 rat •

SPECIFICATIONS:

Identity :

Identity according to Pharmacopoeias:
pH of 5% solutionpasses test
4,5-7,5

Freezing point

Viscosity dynamic of 50% w/w sol. 20°C

Viscosity kinematic of 50% w/w sol. 20°C

Viscosity at 99°C

55-62°C

260-510 mPa.s

240-472 cSt

470-900 cSt

Average molecular weight

7000-9000

Maximum limit of impurities

Appearance of solution	passes test
Acidity or alkalinity	passes test
Insoluble matter in in H2O	passes test
Reducing substances	passes test
Residue on ignition (as SO4)	0,1 %
Hydroxyl value	12-16
Residual solvents (Ph.Eur/USP)	passes test
Ethylene Oxide (G.C.)	0,0001%
1,4-Dioxan (G.C.)	0,001%
Formaldehyde (CH2O)	0,0015%
Water (H2O)	1 %
Heavy metals (as Pb)	0,0005%
As	0,0003 %

Elemental impurities according to ICH Q3D guide: No metal catalysts are used in the manufacturing process.

Class 1-3 elements are not likely to be present above the limits of ICH Q3D option 1.