

**di-Sodium hydrogen phosphate dodecahydrate, Pharmpur®, Ph Eur,
BP****Identification**

$\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$
M = 358,14 g/mol
CAS [10039-32-4]
EC number: 231-448-7
Taric code: 2835 22 00

Synonyms

Sodium monohydrogen phosphate, Sodium phosphate dibasic

Applications

analytical chemistry, in buffer solutions (phosphates), in porcelain industry, cosmetics,
pharmaceutical and food industries, in pharma industry.

Specifications

assay (acidimetric).....	98,5 - 102,5 %	sodium dihydrogenphosphate (NaH_2PO_4).....	max. 2,5 %
Identification A.....	passes test	sulfates (SO_4).....	max. 500 ppm
Identification C.....	passes test	arsenic (As).....	max. 2 ppm
Identification D.....	passes test	iron (Fe).....	max. 20 ppm
appearance of solution.....	passes test	reducing substances.....	passes test
chlorides (Cl).....	max. 200 ppm	loss on drying (130 °C, 4 h)	57 - 61 %

Physical data

- Appearance: crystals, colourless or white
- Spec. Density: 1,52 g/cm³
- Bulk density: ~ 800 - 900 kg/m³
- Solub. in water: (20 °C): ~ 218 g/l
- Melting point: 35 °C
- pH(50 g/l H₂O, 20 °C) ~ 9,0 - 9,4

Transport/storage

- 10°C - 30°C