

**Sodium dihydrogen phosphate monohydrate, for analysis, ExpertQ®, ACS****Identification**

NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O  
M = 137,99 g/mol  
CAS [10049-21-5]  
EC number: 231-449-2  
Taric code: 2835 22 00

**Synonyms**

Sodium biphosphate, Monosodium orthophosphate, Primary sodium phosphate, Sodium phosphate monobasic

**Applications**

analytical chemistry, laboratory reagent, synthesis of organic products, for pharmaceuticals synthesizing, for softening water, in food industry (E 339).

**Specifications**

assay (acidimetric).....	99,0 - 102,0 %	calcium (Ca).....	max. 0,005 %
identity (IR-spectrum).....	passes test	heavy metals.....	max. 5 ppm
insoluble in water.....	max. 0,01 %	iron (Fe).....	max. 5 ppm
pH (5 %, H <sub>2</sub> O).....	4,1 - 4,5	potassium (K).....	max. 0,005 %
chlorides (Cl).....	max. 5 ppm		
sulfates (SO <sub>4</sub> ).....	max. 0,003 %		

**Physical data**

- Appearance: crystals, colourless or white
- Spec. Density: 2,04 g/cm<sup>3</sup>
- Bulk density: ~ 880 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 850 g/l
- Melting point: ~ 100 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) 4,1 - 4,5

**Toxicological data**

- LD 50 (oral, rat): 8290 mg/kg (anhydrous substance)
- WGK: 1
- Poison class CH (Swiss): 5