

Identification

Na₄P₂O₇·10H₂O
M = 446,06 g/mol
CAS [13472-36-1]
EC number: 231-767-1
Taric code: 2835 39 00

Synonyms

Tetrasodium pyrophosphate, TSPP

Applications

analytical chemistry, laboratory reagent, in food industry (E 450), emulsifier, stabilizer, humectant.

Specifications

assay (acidimetric).....	min. 99 %	calcium (Ca).....	max. 0,05 %
insoluble in water.....	max. 0,025 %	copper (Cu).....	max. 0,003 %
pH (5 %, H ₂ O).....	9,5 - 10,8	iron (Fe).....	max. 0,003 %
chlorides (Cl).....	max. 0,01 %	lead (Pb).....	max. 0,003 %
nitrates (NO ₃).....	max. 0,01 %	magnesium (Mg).....	max. 0,05 %
ortho-phosphates (PO ₄).....	max. 0,05 %	nickel (Ni).....	max. 0,003 %
sulfates (SO ₄).....	max. 0,05 %	Residual solvents are analysed	
arsenic (As).....	max. 3 ppm	according to guideline	
		CPMP/ICH/283/95.	

Physical data

- Spec. Density: 1,82 g/cm³
- Bulk density: ~ 650 kg/m³
- Solub. in water: (20 °C): ~ 60 g/l
- Melting point: ~ 79,5 °C
- Boiling point: 93,8 °C
- pH(50 g/l H₂O, 20 °C) 9,5 - 10,5

Transport/storage

- 10°C - 30°C