

Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 231/2012, E 452 (ii) POTASSIUM POLYPHOSPHATE. (See end of Document for details)

ANNEX

E 452 (ii) POTASSIUM POLYPHOSPHATE

Synonyms	Potassium metaphosphate; Potassium polymetaphosphate; Kurrol salt
Definition	
Einecs	232-212-6
Chemical name	Potassium polyphosphate
Chemical formula	(KPO ₃) _n Heterogenous mixtures of potassium salts of linear condensed polyphosphoric acids of general formula H _(n+2) P _n O _(3n+1) where 'n' is not less than 2
Molecular weight	(118) _n
Assay	P ₂ O ₅ content not less than 53,5 % and not more than 61,5 % on the ignited basis
Description	Fine white powder or crystals or colourless glassy platelets
Identification	
Solubility	1 g dissolves in 100 ml of a 1 in 25 solution of sodium acetate
Test for potassium	Passes test
Test for phosphate	Passes test
pH	Not more than 7,8 (1 % suspension)
Purity	
Loss on ignition	Not more than 2 % (105 °C, 4 hours then 550 °C, 30 minutes)
Cyclic phosphate	Not more than 8 % on P ₂ O ₅ content
Fluoride	Not more than 10 mg/kg (expressed as fluorine)
Arsenic	Not more than 1 mg/kg
Cadmium	Not more than 1 mg/kg
Lead	Not more than 1 mg/kg
Mercury	Not more than 1 mg/kg

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