

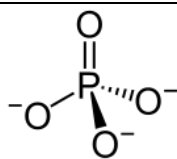
	<h2>Inorganic Phosphates REACH Consortium</h2>
--	--

Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.3	
02/11/16	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP12	Potassium dihydrogenorthophosphate	231-913-4	7778-77-0	mono-constituent substance

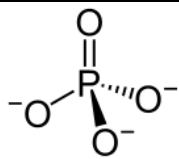
This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the substance described in line with the Substance Identification requirements of REACH Annex VI and relevant guidance for the purpose of identifying the registered substance and the provision of a 'boundary composition' for IUCLID 6 dossier updates.

Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
2.1.A	Name or other Identifiers of the substance		
	CAS (hydrates)	n/a	
	SMILES	OP(=O)(O)[O-].[K+]	
	Molecular formula	H2O4P.K or H3O4P.K	
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	E340i	
	State / form	Solid: Particulate/ Powder	
	Granulometry range	Between 10% and ≥35% of particles have a diameter of <100µm	<p>Considered to pose an inhalation risk</p> <p>Depending on method of particle size determination it cannot be excluded that the substance falls under the proposed horizontal EU nano definition from 2011, but since validated methodology is missing and a revision of the definition is expected, there is no way to confirm the status.</p>
	pH range for aqueous solutions	The pH of the solution, observed in the water solubility study, was pH 4.2-4.5	



Inorganic Phosphates REACH Consortium

2.1.B		Substances (with core identifiers) also falling under this substance (with justification)	
	Name or other Identifiers of the substance	Not applicable	
	EC Number		
	CAS number		
	Additional information		
2.3		Chemical Composition of the substance	
2.3.1		Main Constituent	
	Name	Potassium dihydrogenorthophosphate	
	Typical concentration (%w/w)	80%	
	Concentration range (%w/w)	>70 -100%	
2.3.2		Typical Impurity / Impurities (above 1% or lower if contributing to the hazard or PBT profile) - create repeat blocks if necessary	
2.3.2.1	Name -Impurity (1)	Dipotassium hydrogenorthophosphate	
	CAS Number -Impurity (1)	7758-11-4	
	EC Number -Impurity (1)	231-834-5	
	Molecular Formula -Impurity (1)	H3O4P.2K	
	Typical concentration (%w/w) -Impurity (1)	<15%	
	Concentration range (%w/w) - Impurity (1)	≥ 0 < 15%	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	Potassium sulphate	
	CAS Number -Impurity (2)	7778-80-5	
	EC Number -Impurity (2)	231-915-5	
	Molecular Formula -Impurity (2)	H2O4S.2K	
	Typical concentration (%w/w) -Impurity (2)	<10%	
	Concentration range (%w/w) - Impurity (2)	≥ 0 < 10%	
	Relevant for classification and labelling?	N	
2.3.2.3	Name -Impurity (3)	Calcium hydrogenorthophosphate	
	CAS Number -Impurity (3)	7757-93-9	
	EC Number -Impurity (3)	231-826-1	
	Molecular Formula -Impurity (3)	CaHPO4	
	Typical concentration (%w/w) -Impurity (3)	<5%	



Inorganic Phosphates REACH Consortium

	Concentration range (%w/w) - Impurity (3)	≥ 0 < 5%	
	Relevant for classification and labelling?	N	
2.3.2.4	Name -Impurity (4)	Potassium chloride	
	CAS Number -Impurity (4)	7447-40-7	
	EC Number -Impurity (4)	231-211-8	
	Molecular Formula -Impurity (4)	KCl	
	Typical concentration (%w/w) -Impurity (4)	<5%	
	Concentration range (%w/w) - Impurity (4)	≥ 0 < 5%	
	Relevant for classification and labelling?	N	
2.3.3	Additives - create block similar to impurities if relevant		
	Not relevant		
2.4	Classification and labelling		
	Not classified		
2.5	Justification for deviation from substance identity rules		
	not applicable		