

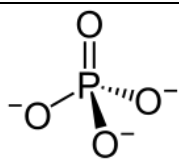
Inorganic Phosphates REACH Consortium

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
IP6	Trisodium hydrogen diphosphate	238-735-6	14691-80-6	mono-constituent substance

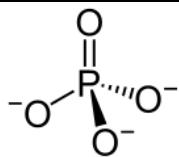
This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the substance described in line with the Substance Identification requirements of REACH Annex VI and relevant guidance for the purpose of identifying the registered substance and the provision of a '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)	26573-04-6 or 16457-94-6	
	SMILES	OP(=O)([O-])OP(=O)([O-])[O-].[Na+].[Na+].[Na+]	
	Molecular formula	H4O7P2.3Na	
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	E450ii	
	State / form	Solid: Particulate / Powder	
	Granulometry range	≥50% 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	pH of 1% solution : pH 6.5-6.7 at 20°C	54
2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		
	Name or other Identifiers of the substance	Not applicable	



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2.3 Chemical Composition of the substance			
2.3.1 Main Constituent			
	Name	Trisodium hydrogen orthophosphate	
	Typical concentration (%w/w)	93%	
	Concentration range (%w/w)	85 - c. 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)	disodium dihydrogen diphosphate	
	CAS Number -Impurity (1)	7758-16-9	
	EC Number -Impurity (1)	231-835-0	
	Molecular Formula - Impurity (1)	H4O7P2.2Na or Na2H2P2O7	
	Typical concentration (%w/w) -Impurity (1)	<5%	
	Concentration range (%w/w) -Impurity (1)	≥0 < 5%	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	Tetrasodium diphosphate	
	CAS Number -Impurity (2)	7722-88-5	
	EC Number -Impurity (2)	2331-767-1	
	Molecular Formula - Impurity (2)	H4O7P2.4Na	
	Typical concentration (%w/w) -Impurity (2)	<5%	
	Concentration range (%w/w) -Impurity (2)	≥0 < 5%	
	Relevant for classification and labelling?	N	
2.3.2.3	Name -Impurity (3)	Pentasodium triphosphate	
	CAS Number -Impurity (3)	7758-29-4	
	EC Number -Impurity (3)	231-838-7	
	Molecular Formula - Impurity (3)	H5O10P3.5Na	
	Typical concentration (%w/w) -Impurity (3)	<5%	
	Concentration range (%w/w) -Impurity (3)	≥0 < 5%	
	Relevant for classification and labelling?	N	
2.3.2.4	Name -Impurity (4)	Monosodium phosphate	
	CAS Number -Impurity (4)	7558-80-7	



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	EC Number -Impurity (4)	231-449-2	
	Molecular Formula - Impurity (4)	H3O4P.Na	
	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		
	Yes - see ECHA Chem website		
2.5	Justification for deviation from substance identity rules		
	not applicable		