

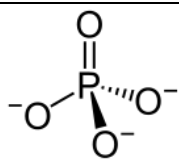


Version	<b>SUBSTANCE IDENTIFICATION PROFILE (SIP)</b>
v.1	
30/5/17	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP70	Calcium bis(metaphosphate)	236-769-6	13477-39-9	mono-constituent substance

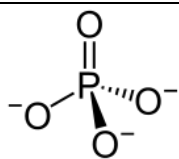
*This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the substance described in line with the Substance Identification requirements of REACH Annex VI and relevant guidance for the purpose of identifying the registered substance and the provision of a '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)		
	Synonyms	Calcium metaphosphate; Metaphosphoric acid, calcium salt; METAPHOSPHORIC ACID(H6P6O18), CALCIUM SALT (1:?), CAS 53801-86-8; 10102-76-8	
	SMILES	[O-]P(=O)=O.[O-]P(=O)=O.[Ca+2]	
	Molecular formula	(Ca(PO <sub>3</sub> ) <sub>2</sub> ) <sub>n</sub>	N is probably 3 (-> see linear opening for impurity Ca <sub>4</sub> P <sub>6</sub> O <sub>19</sub> )
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	n/a	
	State / form	Solid: Particulate / Powder	
	Granulometry range	Up to 100% of particles have a diameter of <100µm, D50 = 43 µm	



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	pH range for aqueous solutions	The pH of the solution observed in the water solubility study was pH 4,9-5,4	
<b>2.1.B</b>	<b>Substances (with core identifiers) also falling under this substance (with justification)</b>		
	Name or other Identifiers of the substance		
	EC Number		
	CAS number		
	Additional information		
<b>2.3</b>	<b>Chemical Composition of the substance</b>		
<b>2.3.1</b>	<b>Main Constituent</b>		
	Name	Calcium bis(metaphosphate)	
	Typical concentration (%w/w)	>80%	
	Concentration range (%w/w)	>80 - 100%	
<b>2.3.2</b>	<b>Typical Impurity / Impurities (above 1% or lower if contributing to the hazard or PBT profile) - create repeat blocks if necessary</b>		
2.3.2.1	Name -Impurity (1)	Calcium hydrogenorthophosphate	
	CAS Number -Impurity (1)	7757-93-9	
	EC Number -Impurity (1)	231-826-1	
	Molecular Formula - Impurity (1)	Ca.H3O4P	
	Typical concentration (%w/w) -Impurity (1)	Ca. 3%	
	Concentration range (%w/w) -Impurity (1)	0-5%	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	Calcium bis(dihydrogenorthophosphate)	
	CAS Number -Impurity (2)	7758-23-8	
	EC Number -Impurity (2)	231-837-1	
	Molecular Formula - Impurity (2)	Ca <sub>2</sub> (H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> or Ca <sub>2</sub> H <sub>3</sub> O <sub>4</sub> P or CaH <sub>4</sub> O <sub>8</sub> P <sub>2</sub>	
	Typical concentration (%w/w) -Impurity (2)	Ca. 3%	
	Concentration range (%w/w) -Impurity (2)	0-5%	
	Relevant for	N	



## Inorganic Phosphates REACH Consortium

	classification and labelling?		
2.3.2.3	Name -Impurity (3)	Calcium phosphates	
	CAS Number -Impurity (3)		
	EC Number -Impurity (3)		
	Molecular Formula - Impurity (3)	Ca4P6O19	
	Typical concentration (%w/w) -Impurity (3)	<15%	
	Concentration range (%w/w) -Impurity (3)	0-20%	
	Relevant for classification and labelling?	N	
2.3.2.3	Name -Impurity (3)	Inorganic impurities	
	CAS Number -Impurity (3)		
	EC Number -Impurity (3)		
	Molecular Formula - Impurity (3)		
	Typical concentration (%w/w) -Impurity (3)		
	Concentration range (%w/w) -Impurity (3)	0-10%	Inorganic phosphates or other related inorganic substances in various composition >1% but always below 10% (w/w).
	Relevant for classification and labelling?		
<b>2.3.3</b>	<b>Additives - create block similar to impurities if relevant</b>		
	Not relevant		
<b>2.4</b>	<b>Classification and labelling</b>		
	Not classified		
<b>2.5</b>	<b>Justification for deviation from substance identity rules</b>		
	not applicable		