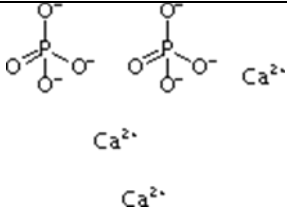


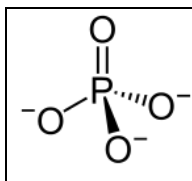
	<h2>Inorganic Phosphates REACH Consortium</h2>
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Version	<b>SUBSTANCE IDENTIFICATION PROFILE (SIP)</b>
v.4	
20/03/2020	
020	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP23	Tricalcium bis(orthophosphate)	231-840-8	7758-87-4	mono-constituent substance

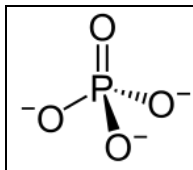
*This Substance Identification Profile (SIP) is developed to represent the Identification parameters of the substance described in line with the Substance Identification requirements of REACH Annex VI and relevant guidance for the purpose of identifying the registered substance and the provision of a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

Reference	SI Parameter	Value / Not necessary / Not for SIP	Remark / Justification
<b>2.1.A</b>	<b>Name or other Identifiers of the substance</b>		
	CAS (hydrates)	n/a	
	synonyms	Tricalcium Phosphate, Tricalcium Di(orthophosphate), $\beta$ -Tricalcium Phosphate, Tribasic Calcium Phosphate	
	SMILES	[O-]P(=O)([O-])[O-].[O-]P(=O)([O-])[O-].[Ca+2].[Ca+2].[Ca+2]	
	Molecular formula	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> or Ca <sub>2</sub> /3H <sub>3</sub> O <sub>4</sub> P or Ca <sub>3</sub> O <sub>8</sub> P <sub>2</sub>	
	Structural image / diagram (indicative)		
	EU food legislation number / INS n°	E341iii	same as IP24
	State / form	Solid: Particulate / Powder	
	Granulometry range	Up to 100% of particles have a diameter of < 100 $\mu$ m	
	pH range for aqueous solutions	The pH of this solution was observed in the water solubility study was pH 6.9-7.3	
<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	Not applicable	
	EC Number		



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	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	Tricalcium bis(orthophosphate)	
	Typical concentration (%w/w)	ca. 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)	Pentacalcium hydroxide tris(orthophosphate)	
	CAS Number -Impurity (1)	12167-74-7	
	EC Number -Impurity (1)	235-330-6	
	Molecular Formula - Impurity (1)	Ca <sub>5</sub> HO <sub>13</sub> P <sub>3</sub>	
	Typical concentration (%w/w) -Impurity (1)	Ca. 1%	
	Concentration range (%w/w) -Impurity (1)	0 – 5 %	
	Relevant for classification and labelling?	N	
2.3.2.2	Name -Impurity (2)	Dicalcium pyrophosphate	
	CAS Number -Impurity (2)	7790-76-3	
	EC Number -Impurity (2)	232-221-5	
	Molecular Formula - Impurity (2)	Ca <sub>2</sub> O <sub>7</sub> P <sub>2</sub>	
	Typical concentration (%w/w) -Impurity (2)	Ca. 1%	
	Concentration range (%w/w) -Impurity (2)	0 – 5 %	
	Relevant for classification and labelling?	N	
<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		



## **Inorganic Phosphates REACH Consortium**