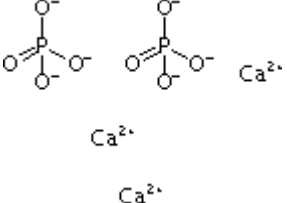




Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.4	
20/03/2020	

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
2.1.A	Name or other Identifiers of the substance		
	CAS (hydrates)	n/a	
	synonyms	Tricalcium Phosphate, Tricalcium Di(orthophosphate), β -Tricalcium Phosphate, Tribasic Calcium Phosphate	
	SMILES	<chem>[O-]P(=O)([O-])[O-].[O-]P(=O)([O-])[O-].[Ca+2].[Ca+2].[Ca+2]</chem>	
	Molecular formula	$\text{Ca}_3(\text{PO}_4)_2$ or $\text{Ca}_2/3\text{H}_3\text{O}_4\text{P}$ or $\text{Ca}_3\text{O}_8\text{P}_2$	
	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 μm	
	pH range for aqueous solutions	The pH of this solution was observed in the water solubility study was pH 6.9-7.3	
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	Tricalcium bis(orthophosphate)	
	Typical concentration (%w/w)	ca. 80%	
	Concentration range (%w/w)	80 - 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)	Pentacalcium hydroxide tris(orthophosphate)	
	CAS Number -Impurity (1)	12167-74-7	
	EC Number -Impurity (1)	235-330-6	
	Molecular Formula - Impurity (1)	Ca ₅ HO ₁₃ P ₃	
	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 ₂ O ₇ P ₂	
	Typical concentration (%w/w) -Impurity (2)	Ca. 1%	
	Concentration range (%w/w) -Impurity (2)	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		