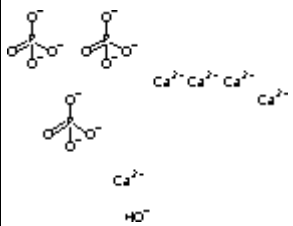




Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.5	
02/10/2026	

No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP24	Pentacalcium hydroxide tris(orthophosphate)	235-330-6	12167-74-7	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	12167-74-7	
	Synonyms	Hydroxylapatite, Hydroxy Apatite	
	SMILES	[OH-].[O-]P(=O)([O-])[O-].[O-]P(=O)([O-])[O-].[O-]P(=O)([O-])[O-].[Ca+2].[Ca+2].[Ca+2].[Ca+2]	
	Molecular formula	Ca ₅ (PO ₄) ₃ OH or 10 CaO ₃ (P ₂ O ₅)H ₂ O or Ca ₅ HO ₁₃ P ₃	
	Structural image / diagram (indicative)		
	State / form	Solid: Particulate / Powder	
2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		
	Name or other Identifiers of the substance	Hydroxylapatite	
	EC Number	215-145-7	
	CAS number	1306-06-5	
	Additional information		



2.3	Chemical Composition of the substance		
2.3.1	Main Constituent		
	Name	Pentacalcium hydroxide tris(orthophosphate)	
	Typical concentration (%w/w)	Ca. 97%	
	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)	Calcium hydrogenorthophosphate	
	CAS Number -Impurity (1)	7757-93-9	
	EC Number -Impurity (1)	231-826-1	
	Molecular Formula - Impurity (1)	CaHPO4	
	Typical concentration (%w/w) -Impurity (1)	ca. 3%	
	Concentration range (%w/w) -Impurity (1)	0 - 20%	
	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		