

Version	SUBSTANCE IDENTIFICATION PROFILE (SIP)
v.4	····· (··· )
13/06/2023	

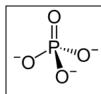
No	1.1. Chemical Name	1.2. EC Number	1.3. CAS Number	1.4. Composition Type
IP22	Calcium hydrogenorthophosp hate	231-826-1	7757-93-9	mono- constituent substance

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.

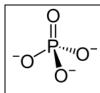
Reference	SI Parameter	Value / Not necessary / Not for	Remark / Justification
		SIP	
2.1.A	Name or other Identifiers of the substance		
	CAS (hydrates)	7789-77-7	
	synonyms	dIcalcium Phosphate (MCP), Dicalcium Orthophosphate, Dibasic calcium phosphate, Brushite	
	SMILES Molecular formula	OP(=O)([O-])[O-].[Ca+2] CaHPO4 or Ca.H3O4P	
	Structural image / diagram (indicative)	0- I HO II 0- O Ca <sup>2+</sup>	
	EU food legislation number / INS n°	E341ii	
	State / form	Solid: Partiulate / Powder	
	Granulometry range	Up to 100% of particles have a diameter of <100 μm	The substance is considered to be inhalable. Nano forms (in accordance with COMMISSION REGULATION (EU) 2018/1881 of 3 December 2018 on the definition of nanomaterial) have not been identified.
	pH range for aqueous solutions	The pH of the solution observed in the water solubility study was pH 6.5. pH of 10 % suspension acc. to DIN EN ISO 797-9: 5.0 - 8.0	



2.1.B	Substances (with core identifiers) also falling under this substance (with justification)		stance (with justification)
	Name or other	Not applicable	
	Identifiers of the		
	substance		
2.3	Chemical Composition of the substance		
2.3.1	Main Constituent		
	Name	calcium	
		hydrogenorthophosphate	
	Typical concentration	80%	
	(%w/w) Concentration range	>70 - 100%	
	(%w/w)	270 - 10070	
2.3.2		ies (above 1% or lower if contribut	ting to the hazard or PBT profile) -
	create repeat blocks if ne		
2.3.2.1	Name -Impurity (1)	Calcium	
		bis(dihydrogenorthophosphate)	
	CAS Number -Impurity	7758-23-8	
	(1)		
	EC Number -Impurity (1)	231-837-1	
	Molecular Formula -	Ca2(H2PO4)2	
	Impurity (1) Typical concentration	<10%	
	(%w/w) -Impurity (1)	<10%	
	Concentration range	>0 <10%	
	(%w/w) -Impurity (1)		
	Relevant for	N	
	classification and		
	labelling?		
2.3.2.2	Name -Impurity (2)	Calcium sulphate	
	CAS Number -Impurity	7778-18-9	
	(2) EC Number -Impurity (2)	231-900-3	
	Molecular Formula -	CaH2O4S	
	Impurity (2)	Call2043	
	Typical concentration	<10%	
	(%w/w) -Impurity (2)		
	Concentration range	>0 <10%	
	(%w/w) -Impurity (2)		
	Relevant for	N	
	classification and		
2.3.2.3	labelling? Name -Impurity (3)	Tricalcium bis(orthophosphate)	
2.3.2.3	CAS Number - Impurity	7758-87-4	
	(3)	// 50-07-4	
	EC Number -Impurity (3)	231-840-8	
	Molecular Formula -	Ca3(PO4)2	
	Impurity (3)	· · ·	



	Typical concentration	<5%	
	(%w/w) -Impurity (3)	<5%	
	Concentration range	>0 <5%	
	(%w/w) -Impurity (3)	20 < 576	
	Relevant for	N	
	classification and		
	labelling?		
2.3.2.4	Name -Impurity (4)	mineral phosphate rock	
2.3.2.4			
	CAS Number -Impurity	1306-05-4	
	(4)		
	EC Number -Impurity (4)	215-144-1	
	Molecular Formula -	N/A	
	Impurity (4)	<5%	
	Typical concentration	<5%	
	(%w/w) -Impurity (4)		
	Concentration range	>0 <5%	
	(%w/w) -Impurity (4) Relevant for	N	
		N	
	classification and		
2225	labelling?		
2.3.2.5	Name -Impurity (5)	Iron salts - IDENTITY NOT	
		DEFINED	
	CAS Number -Impurity		
	(5)		
	EC Number -Impurity (5)		
	Molecular Formula -		
	Impurity (5)	<5%	
	Typical concentration	<3%	
	(%w/w) -Impurity (5)	>0 >5%	
	Concentration range (%w/w) -Impurity (5)	>0 >5%	
	Relevant for	N	
	classification and	10	
2.3.2.6	labelling? Name -Impurity (6)	Magnasium calta IDENTITY	
2.5.2.0	Name - Impunity (6)	Magnesium salts - IDENTITY NOT DEFINED	
	CAS Number -Impurity		
	(6)		
	EC Number -Impurity (6)		
	Molecular Formula -		
	Impurity (6)		
	Typical concentration	<5%	
	(%w/w) -Impurity (6)		
	Concentration range	>0 >5%	
	(%w/w) -Impurity (6)		
	Relevant for	N	
	classification and	'N	
	labelling?		
2227		Pontacalcium hudrovida	
2.3.2.7	Name -Impurity (7)	Pentacalcium hydroxide	ntification Profile (SID)



		tris(orthophosphate)		
	CAS Number -Impurity	12167-74-7		
	(7)			
	EC Number -Impurity (7)	235-330-6		
	Molecular Formula -	Ca5HO13P3		
	Impurity (7)			
	Typical concentration	ca. 18 %		
	(%w/w) -Impurity (7)			
	Concentration range	0-20 %		
	(%w/w) -Impurity (7)			
	Relevant for	Ν		
	classification and			
2220	labelling?			
2.3.2.8	Name -Impurity (8)	Silicon dioxide		
	CAS Number -Impurity (8)	7631-86-9		
	EC Number -Impurity (8) Molecular Formula -	231-545-4 O2Si		
	Impurity (8)	0231		
	Typical concentration	<1%		
	(%w/w) -Impurity (8)			
	Concentration range	0-1 %		
	(%w/w) -Impurity (8)			
	Relevant for	N		
	classification and			
	labelling?			
2.3.3	Additives - create block si	imilar to impurities if relevant		
		Not relevant		
2.4	Classification and labellin	g		
		Not classified		
2.5	Justification for deviation	Justification for deviation from substance identity rules		
In accordance with ECHA Guidance for identification and naming of substances under REACH and CLP, version				
1.4, when the concentration of the main constituent is <70% the following requirement(s) are met:				
1. The substance has been shown to have similar physico-chemical properties and the same hazard profile as				
other mono-constituent substances with the same identity that fulfil the 80% rule.				
and/or				
2. The range of concentrations for the main constituent and the impurities overlap the 80% criterion and the				
main constituent is only occasionally $\leq$ 80%.				