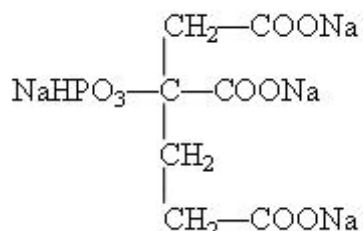


2-Phosphonobutane -1,2,4-Tricarboxylic Acid, Sodium salt (PBTC.Na4)



CAS No.	40372-66-5	EINECS No.	254-894-4
Molecular Formula	C ₇ H ₇ O ₉ P.Na ₄	Molecular Weight	358

Structural Formula



Product Features

PBTC.Na₄ is tetrasodium salt of 2-phosphonobutane-1, 2, 4-tricarboxylic acid (PBTC). PBTC.Na₄ is a highly effective scale inhibitor for calcium carbonate and calciumphosphate. PBTC.Na₄ scale inhibition property under high temperature is far better than that of organophosph-ines..

Technical Specification

Items	Index		
Appearance	Colorless to yellowish transparent liquid	White crystal powder	White powder
Active content (PBTC), %	30.0min	64.0 min	64.0 min
Active content (PBTC·Na ₄), %	40.0min	85.0 min	85.0 min
Fe, mg/L	-	20 max	20 max
Density (20°C), g/cm ³	1.35min	-	-
pH (1% water solution)	9.0-12.0	4.0-6.0	6.5-9.0

Applications & Usage

PBTC.Na₄ is mainly used in the field of cooling & process water treatment and cleaning formulations. PBTC.Na₄ can be used without adding acid, such as at any pH.


PBTC.Na₄ is usually used together with zinc salt, copolymer, organophosphine, imidazole and other Water Treatment Chemicals.

PBTC.Na₄ powder is recommended as dry mix ingredient in chlorine bleach cleaning formulations and in dish wash formulations. PBTC.Na₄ powder also functions as a retardant in cement.




Scale & Corrosion Inhibition Performance

CaCO ₃ inhibition	CaSO ₄ inhibition	CaF ₂ inhibition	Iron control	Sequestration
Very Good	Excellent	Very Good	Very Good	Very Good
Calcium tolerance	Iron Control	Sequestration	Steel corrosion inhibition	
Good	Yes	Excellent	Very Good	

Package & Storage

PBTC.Na ₄ Solid		PBTC.Na ₄ Liquid			
25L Drum	Bulk Bag	25L Drum	200L Drum	1000L IBC	ISO Tank
					
Storage for ten months in shady room and dry place.					

Hazard & Safety Precaution

Hazard Information	Safety Precaution
Not regulated	  
Once contacted with eye and skin, flush with plenty of clean water.	