



Specification

Concerning Product:	
Article number	36030
Trade name / designation / denomination	Thimerosal USP/BP/EP
CAS number	54-64-8
Other names / synonyms	•Ethyl-2-mercaptobenzoate / Sodium 2-(ethylmercuriothio)benzoate; •Merfamin; •Merthiolat; •Merthiosal; •Thimerosal Sodium Ethylmercuric salicylate; •sodium [(2-carboxylatophenyl)thio]-ethylmercury; •thiomersal;
EC number	200-210-4
EC index number	080-004-00-7
Customs tariff number / CN code / TARIC	28521000
Molecular weight [g / mol]	404,81133
Formula	C ₉ H ₉ HgNaO ₂ S
Danger    UN 2025, 6.1, II	
Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or if you feel unwell, immediately call a POISON CENTER or doctor/physician. Dispose of contents/container in accordance with local/regional/(inter)national regulations.	

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	EP/BP	Opalescence test and colour test	
Appearance	EP/BP	white or almost white crystalline powder	
Physical parameter			
Loss on drying	USP/EP/BP	≤ 0,5	%
pH value	EP/BP	of 0,8% w/v solution 6 – 8	
Solubility	EP/BP	Freely soluble in water, sparingly soluble or soluble in ethanol (96%), practically insoluble in methylene chloride	
Identity			
Assay	USP	Chromatography (on dry basis) 97 – 102	%
Assay	EP/BP	Titrimetry (on dry basis) 97 – 101	%
Identification	USP	A) IR; B) Silver Nitrate test; C) Chromatographic correlation between standard and sample	
Identification	EP/BP	First identif.: B) IR test; D) Reaction of Sodium	
Impurities			
Impurity	USP	Any other individual unspecified impurity ≤ 0,10	%
Impurity	USP	Thimerosal related compound A ≤ 0,10	%
Impurity	USP	Thiosalicylic acid ≤ 0,10	%
Impurity	USP	Total impurities ≤ 1,0	%
Elemental Impurities			
Mercury (Hg)	USP/EP/BP	(Ions) ≤ 0,7	ppm

Supplemental information:

Shelf life: 5 years

Complies with monographie: USP,BP,EP

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 09. May. 2025

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