

Technical Data Sheet

1. General product information	
Product name :	TSP-14
Chemical name:	Tristyrylphenol polyoxyethylene ether
CAS number:	99734-09-5
Product Description:	TSP-14 is a nonionic surfactant belonging to the triphenylethylphenol polyoxyethylene ether class. It has a relatively low number of ethylene oxide (EO) units (approximately 14), which gives it strong lipophilic properties; it is primarily used as a highly effective W/O emulsifier.

2. Specifications Table		
Parameters	Physical and Chemical Properties	Test Method
Appearance(25°C)	Brownish-yellow semi-solid	Visual assessment
Saponification value (mgKOH/g)	-	GB/T 5534-2008
Cloud point (°C)	37-43	GB/T 5559-2010
pH value	5.0-7.0	GB/T 12008.2-2010
Water content (%)	≤0.5	GB/T 22313-2008
Iodine value (g I ₂ /100 g)	-	General Rules 0713, Chinese Pharmacopoeia

※ The above data is for reference only and should not be construed as technical indicators.

3. Properties and Applications

Core Additives for Pesticide Formulations: TSP-14 is commonly used as an emulsifier and dispersant in pesticides and can be used to formulate various emulsion concentrates (ECs) for organophosphate, organochlorine, pyrethroid, and herbicide formulations.

Textile Dyeing Leveling Agent: As a core component of high-temperature leveling agents for various polyester fibers, it significantly enhances dyeing performance.

Synthesis of Anionic Surfactants: As a key intermediate, it is used to synthesize anionic surfactants in the TSP series (such as phosphate esters), which are then widely applied in coatings, inks, and other fields.

4. Storage and Handling

Store in dry and cool location and protect the product from heat and direct sunlight. In enclosed original container product keeps stable for at least 2 years. keep the container tightly sealed. Prior taking portions all the lot must be homogenised. please refer to the Safety Data Sheet (MSDS) for this product for instructions on safe and proper handling and disposal.

The information provided in this document is based on the best of our knowledge and experience. It is intended as a general description of our product specifications and shall not constitute a guarantee or agreement regarding the quality of the specified products, respectively. The customer remains responsible for the inspection and testing of the specified products, as well as any supplementary information and documents provided alongside with the specified products, in particular the material safety data sheets, in order to determine their suitability for their particular application.