

FASCAT® 2001 Catalyst

Stannous Oxalate

CAS Registry Number: 814-94-8

Description

FASCAT 2001 catalyst, stannous oxalate, is a white to off-white solid powder. This product is available in 55 lb (25kg) pails and 400 lb (181kg) drums.

Applications

FASCAT 2001 catalyst is used in the production of monomeric and polymeric plasticizers, fatty acid esters, and synthetic lubricants.

Product Specifications

Properties	Specifications
Formula	Sn(O ₂ CCO ₂)
% Sn	57.4
Molecular Weight	206.7
Melting Point °C	280 with Decomposition
Specific Gravity (@18°C)	3.56

Solubility

Insoluble in water and most common organic solvents. Slightly soluble in solutions of oxalic acid.

Product Features

FASCAT 2001 is a solid catalyst used for the formation of esters from acids and alcohols where removal of the catalyst is desirable after completion of the reaction. FASCAT 2001 catalyst becomes soluble in the alcohol and acid reaction mixture at temperatures between 80-100°C. FASCAT 2001 catalyst does not require extensive or rigorous handling conditions and can be charged at any point during the reaction. FASCAT 2001 catalyst is neutral and insoluble in the final ester product.

Benefits

FASCAT 2001 catalyst shortens cycle times, reduces consumption of chemical reactants, and reduces byproduct formation, while increasing product ester yield and purity. FASCAT 2001 catalyst reduces side reactions typically encountered with acid catalysts or systems where no catalyst is used. This includes dehydration of alcohols that form unwanted alkenes, aldehydes, ketones, and ethers. The resulting ester product has improved color and reduced odor. Esters of secondary alcohols can be prepared in higher yields and purity than with acid catalysts because these side reactions are avoided. FASCAT 2001 catalyst promotes full utilization of raw materials and produces esters with very low acid values. As a result, neutralization and washing are often unnecessary and good quality product can be obtained by steam stripping and filtration. FASCAT 2001 catalyst results in ester products with low residual tin content.

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