

FASCAT[®] 2000 CATALYST

PRODUCT INFORMATION

DESCRIPTION

Arkema Inc. FASCAT 2000 catalyst, stannous oxide [CAS #21651-19-4], is a blue black crystalline solid, with the following properties:



TYPICAL PROPERTIES

Formula	SnO
% Sn	88.1
Molecular Weight	134.7
Melting Point (°C)	1080°C with decomposition
Density (@ 20°C) g/cm ³	6.45
Solubility	Insoluble in water and most common organic solvents.

PRODUCT FEATURES

FASCAT 2000 catalyst is used in the formation of esters from acids and alcohols where removal of the catalyst is desirable after completion of the reaction.

FASCAT 2000 catalyst becomes soluble in the alcohol and acid reaction mixture at a temperature range between 80-100°C.

FASCAT 2000 catalyst does not require extensive or rigorous handling conditions and can be charged at any point during the reaction.

FASCAT 2000 catalyst is neutral and insoluble in the ester product.

BENEFITS

FASCAT 2000 catalyst shortens cycle times, reduces consumption of chemical reactants, and reduces byproduct formation, while increasing product ester yield and purity.

FASCAT 2000 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. Esters of secondary alcohols can be prepared in higher yields and purity than with acid catalysts because these side reactions are avoided.

RECOMMENDED USES

FASCAT 2000 catalyst is used to produce monomeric esters of adipates, benzoates and phthalates for plasticizer applications.

PACKAGING

FASCAT 2000 catalyst is available in 55 lb (25 kg) pails.

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