Technical Data Sheet

ChangFu® MAAC

3-Methacryloxypropyltriacetoxysilane

Description

ChangFu® MAAC is an organic silane that combines the reactivity of both an acrylic group (methacryloxy) and a silicon-based group (triacetoxysilane). Its ability to enhance adhesion, facilitate crosslinking, and modify surface properties ensures its use in coatings, sealants, and polymer systems, offering a pathway to improved material properties in diverse fields.

Features & Benefits

Its methacryloxy group is reactive in the presence of free radicals, making it useful in polymerization reactions, while the acetoxy groups hydrolyze to form silanol groups when exposed to moisture.

Compared with other crosslinking agents such as alkoxyl or butanone oxime, it has a moderate hydrolysis rate.

Exhibits good thermal stability, making it suitable for high-temperature applications.

Applications

Used to enhance the adhesion of coatings, adhesives and sealants to inorganic substrates. It improves the bonding strength by facilitating crosslinking with polymers.

Used to modify surfaces of composite materials such as glass fibers, fillers, and metal surfaces, improving their compatibility with polymer matrices.

Incorporated into polymer matrices as a functional monomer, contributing to crosslinked structures that enhance thermal stability, chemical resistance, and mechanical strength.

Typical Properties

Description	3-Methacryloxypropyltriacetoxysilane
Product No.	ChangFu® MAAC
CAS No.	51772-85-1
Formula	C13H20O8Si
Purity	min 96%
Color	Colorless or light yellow
Appearance	Clear liquid

Package

Offered in 25L pails and 200L drums.

Custom packaging is available.

Storage

Stored in a cool, well-ventilated place.

Keep the container tightly closed.

Transportation

See the corresponding Safety Data Sheet.