

Trifluoroacetic acid (TFA)

产品名称	Trifluoroacetic acid (TFA)
公司名称	上海恩莱保贸易有限公司
价格	.00/个
规格参数	
公司地址	上海市松江区金高路2388号813室
联系电话	86-021-20228098 13391171050

产品详情

三氟乙酸的反应集中在其羧基上。三氟甲基是已知的稳定的结构，对几乎所有的氧化、还原和水解条件都是惰性的。虽然是强有机酸，但三氟乙酸比强无机酸弱得多。使用三氟乙酸作为烯烃水合促进剂允许由烯烃合成醇，烯烃聚合、氧化或以其他方式被硫酸分解。三氟乙酸促进了广泛的反应，包括酯化、缩合和氧化。与通常的酸催化剂相比，它的优点是反应更平稳，分解更少。TFA

还在这些应用中提供了简单的处理和恢复。The reactions of trifluoroacetic acid are centered on its carboxyl group. The trifluoromethyl group is of the most stable structures known, being inert towards practically all oxidizing, reducing, and hydrolyzing conditions. Although a strong organic acid, trifluoroacetic acid is considerably weaker than strong inorganic acids. The use of trifluoroacetic acid as an olefin hydration promoter permits the synthesis of alcohols from olefins which are polymerized, oxidized, or otherwise decomposed by sulfuric acid. A wide range of reactions are promoted by trifluoroacetic acid including esterifications, condensations, and oxidations. Its advantages over the usual acid catalysts are smoother reaction and less decomposition. TFA also offers easy handling and recovery in these applications.

Applications

Solvent

Catalyst

Reagent

Water miscible

Low boiling point reagent

High dielectric constant

Strong acidity

Trifluoromethyl group

Less oxidizing than sulfuric acid

Inert toward practically all oxidizing, reducing and hydrolyzing conditions