

α -Trifluoromethylacrylic acid

A Pioneer in Fluorochemistry

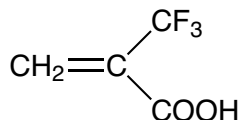


TOSOH F-TECH, INC.

1. α -Trifluoromethylacrylic acid

Name α -Trifluoromethylacrylic acid
[2-(Trifluoromethyl)propenoic acid]

Structure



Formula	C ₄ H ₃ F ₃ O ₂	EINECS	NOT LISTED
Mol. Wt.	140.1	TSCA	NOT REGISTERED
CAS Reg. No.	381-98-6		

2. Characteristics

- 1) The esters of **α -Trifluoromethylacrylic acid** are easy to polymerized under the ionic condition but not easy under the radical condition. (ex. Methyl ester Q-value=0.74, e=2.5)
- 2) **α -Trifluoromethylacrylic acid** polymers exhibit lower refractive index and higher transparency than other polymethacrylate. Its derivatives are candidates for the monomer for 157 nm photoresists.
- 3) **α -Trifluoromethylacrylic acid** is useful as a key intermediate for the pharmaceutical intermediates.

3. Properties

Appearance	White or pink crystal	Melting Point	52~53 °C
Boiling Point	86 °C/ 35mmHg	Flash Point	84 °C

4. Handling and Storing

- 1) In the event that contact is made with eyes or skin, wash immediately with large amounts of water. If the eyes are affected, seek immediate medical attention after washing.
- 2) In the case of fire, wear appropriate protective clothing and use self-contained breathing apparatus. Use water, foam, dry chemical or carbon dioxide to extinguish.
- 3) Store in cool, dry, well ventilated area, away from sources of ignition.

5. Toxicity

Oral (rat): LD₅₀ 200-1,000 mg/kg Ames Test: Negative

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