

---

## Product Data Sheet

---

Product Name: Methacrylic anhydride

Cat. No.: GC68201

### Chemical Properties

Cas. No. 760-93-0

Formula  $C_8H_{10}O_3$

M.Wt 154.17

Solubility DMSO : 100 mg/mL (648.63 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

Methacrylic anhydride is a typical polymerizable 1,6-diolefin. Methacrylic anhydride can form a soluble cyclopolymer by free-radical initiation. Methacrylic anhydride can spontaneously polymerize through the vinyl group and justifies the use of 2-6-di-tert-butyl-4-methylphenol as an inhibitor<sup>[1][2]</sup>.

[1]. Jesse C. H. Hwa, et al. Copolymerization of methacrylic anhydride with vinyl monomers. Journal of Polymer Science. November 1961, 55(161):197-213.

[2]. F. Becquart, et al. Functionalization of a poly(vinyl alcohol) in the solid state with a swelling agent by methacrylic anhydride. Polymer Chemistry. 1 April 2004, 42(7):1618-1629.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA