

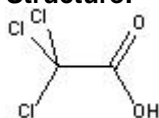
TECHNICAL INFORMATION

Catalog Number: 152592, 190521, 196057, 196058, 196059, 196060, 196061, 196062

Trichloroacetic acid

CAUTION: EXTREMELY CORROSIVE MATERIAL

Structure:



Molecular Formula: C₂HCl₃O₂

Molecular Weight: 163.4

CAS # 76-03-9

Synonym: TCA

Physical Description: White crystalline powder

Solubility: Soluble in water; very soluble in ethanol or ether.¹ Decomposed by heating with caustic alkalis into chloroform and alkali carbonate.¹

pH: pH of a 0.1 M aqueous solution is 1.2.¹

Stability: Long term storage of aqueous solutions of less than 30% strength is not recommended.¹ Decomposition products are chloroform, hydrochloric acid, carbon dioxide and carbon monoxide.¹

Description: Used in protein precipitation; has been used to determine protein concentration by quantitative precipitation. Used as a decalcifier and fixative in microscopy. A protocol for the precipitation of nucleic acids can be found in Molecular Cloning.⁴

Availability:

Catalog Number	Description	Size
190521	Trichloroacetic Acid, crystalline	100 g 500 g 1 kg
152592	Trichloroacetic acid, crystalline, ACS Reagent Grade	250 g 500 g 1 kg
196057	Trichloroacetic acid, 6.1 N Solution (Approximately 100% w/v)	100 ml
196062	Trichloroacetic acid, 0.18 N Solution (Approximately 3% w/v)	50 ml 500 ml
196061	Trichloroacetic acid, 0.38 N Solution (Approximately 6.25% w/v)	50 ml 200 ml
196060	Trichloroacetic acid, 0.49 N Solution (Approximately 8% w/v)	50 ml 200 ml
196059	Trichloroacetic acid, 0.60 N Solution (Approximately 10% w/v)	25 ml
196058	Trichloroacetic acid, 0.73 N Solution (Approximately 12% w/v)	100 ml

References:

- Merck Index, **12th Ed.**, No. 9756.
- Cabib, E. and Polachek, I., *Meth. Enzymol.*, **v. 104**, 415 (1984).
- Dutt, M.K., *Sci. Cult.*, **v. 51**, 196 (1985).
- Sambrook, J., et al., *Molecular Cloning: A Laboratory Manual*, **2nd Ed.**, Cold Spring Harbor Laboratory Press: Plainview, NY, E.18 (1989).