

Acetyltributyl citrate

Chemical Properties

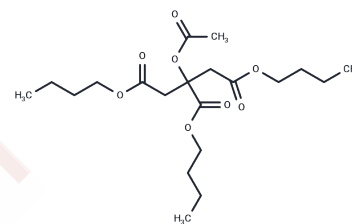
CAS No. : 77-90-7

Formula: C₂₀H₃₄O₈

Molecular Weight: 402.48

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Acetyltributyl citrate (Tributyl O-acetylcitrate) is a plasticizer used in the preparation of plastics such as polyvinyl chloride (PVC), polyethylene (PE), and polypropylene (PP).
Targets(IC50)	Others

Solubility Information

Solubility DMSO: 80 mg/mL (198.77 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4846 mL	12.423 mL	24.846 mL
5 mM	0.4969 mL	2.4846 mL	4.9692 mL
10 mM	0.2485 mL	1.2423 mL	2.4846 mL
50 mM	0.0497 mL	0.2485 mL	0.4969 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhang S, et al. Solid phase microextraction of phthalic acid esters from vegetable oils using iron (III)-based metal-organic framework/graphene oxide coating. Food Chem. 2018 Oct 15;263:258-264.

Johari AP, et al. Influence of surface modified cellulose microfibrils on the improved mechanical properties of poly (lactic acid). Int J Biol Macromol. 2016 Mar;84:329-39.

Do MP, Neut C, Metz H, Delcourt E, Siepmann J, Mäder K, Siepmann F. Mechanistic analysis of PLGA/HPMC-based in-situ forming implants for periodontitis treatment. Eur J Pharm Biopharm. 2015 Aug;94:273-83. doi: 10.1016/j.ejpb.2015.05.018. Epub 2015 Jun 3. PubMed PMID: 26047797.

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