

Delta-Valerolactone

Delta-戊内酯

CAS NO.:542-28-9

一、Application

Delta-Valerolactone is an important intermediate for organic synthesis with wide application:

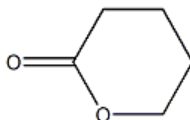
1. Delta-Valerolactone is used together with cyclohexylamine to synthesize 1-Cyclohexyl-5-(4-chlorobutyl)-1H-tetrazole (a raw material of Cilostazol) Concentrate the acetylene; Extract the butadiene, isoprene, aromatics, Polymerizing solvent for the engineering plastics which are difficult to dissolve (such as the polyphenylene sulfide and the polyimide) and the aromatic fiber;
2. Used to synthesize 2,3-dihydrofuran (raw material for Misoprostol and dinoprost)
3. Used to synthesize (+)Quebrachamine
4. Used to synthesize 2,4- bis-substituted pyran (2,3-d) pyrimidine (as germicide and herbicide)
5. Used together with Ethyl trifluoroacetate to synthesize Trifluoroacetyl- Delta-Valerolactone
6. Easy for ring-opening polymerization, so widely used in pharmaceutical and liquid crystal.
7. Used together with other lactones (such as epsilon-caprolactone) to synthesize polylactides. Due to the polylactides' bio-degradability, good flexibility, transparency and other properties, the polylactides are used in wound management.

二、Physical performance:

Molecular Formula: $C_5H_8O_2$

Molecular Weight: 100.12

Molecular Structural Formula::



Characteristics:

Colorless transparent liquid, with boiling point 58-60 °C and melting point -13- -12 °C.

三、Product specifications

Index	Reagent Class
Purity wt% GC	≥99.0
Water content (wt% K.F.)	≤0.10
Color Hazen	≤20
PH Value (mKOH/g)	≤0.20

四、Packing:

In galvanized iron or plastic drums of 200kg(N.W.), 1x20' FCL: 16Mt/80Drums, 1x20' ISO TANK: 20Mt. IBC plastic drums of 1000kg (N.W.)