

# D-Lactide

- Biomass-based monomer for bio-degradable polymer -

<b>Product</b>	Monomer for bio-degradable polymers from biomass-based d-lactic acid
<b>Application</b>	Polymerization of PLA (poly lactic-acid) and PLGA (poly lactic and glycolic acid)
<b>Feature</b>	High quality polymer-grade d-lactic acid from d-lactic acid of high optical purity

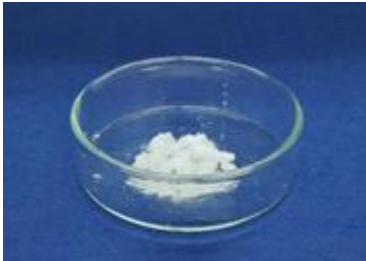
## Background

JMTC Enzyme, a JV of AGC Inc. and JMTC, produces d-lactic acid with an original fermentation technology developed by AGC Inc. JMTC supplies d-lactide derived from JMTC Enzyme's d-lactic acid to polymer producers to develop useful polymers like bio-degradable and nontoxic to the human body and the environment.

## Product overview

High-quality polymer-grade d-lactide

Key properties:

Chemical name	(3R,6R)-3,6-Dimethyl-1,4-dioxane-2,5-dione	
CAS No.	13076-17-0	<p>&lt; Product photo &gt;</p> 
Molecular formula	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	
Molecular weight	144.13	
Melting point	95~98 °C	
Appearance	White powder	

## Application

Bio-absorbable materials for life science products and DDS (drug delivery systems)

Bio-degradable polymer for packaging products

e.g. PDLA (poly d-lactic acid)

Stereo-complex PLA (compound of PLLA and PDLA)

PGDLA (poly d-lactic-co-glycolic acid)

## Contact information