

## SPECIFICATION SHEET

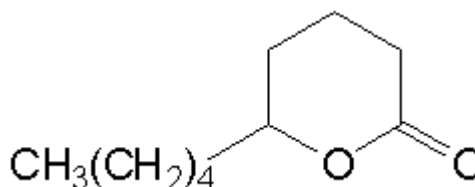
**VERSION** 2,00 **VERSION DATE** 31/05/22 **PRINT DATE** 29/04/24

**PRODUCT** DELTA-DECALACTONE CHIRAL NATURAL EU BESTALLY  
**APPLICATIONS** Industrial raw material not intended for direct use.  
**IUPAC NAME** TETRAHYDRO-6-PENTYL-2H-PYRAN-2-ONE  
**SYNONYMS** (1,5)-DECANOLIDE, AMYL-DELTA-VALEROLACTONE, 6-PENTYLOXAN-2-ONE

**PLANT OF ORIGIN**  
**PART OF THE PLANT** FERMENTATION OF CORN GERM OIL  
**FORMULA** C10 H18 O2  
**MOLECULAR WEIGHT** 170,25  
**CAS** 705-86-2

**EINECS** 211-889-1

**FEMA** 2361  
**TARIFF NUMBER** 2932209025  
**KOSHER CERTIFICATE** AVAILABLE ON REQUEST  
**FOOD GRADE CERTIFICATE** AVAILABLE ON REQUEST  
**REACH REGISTRATION NO.** Exempt from registration (imported/manufactured < 1 ton/year)



## SPECIFICATIONS

**ASPECT AT 20°C** CLEAR MOBILE LIQUID  
**COLOUR** COLORLESS  
**ODOUR** NUT, FRUITY, COCONUT, BUTTERY  
**TASTE** COCONUT, CREAMY, BUTTERY, MILKY, PEACH  
**DENSITY AT 20°C (g / ml)** 0,966 - 0,973  
**DENSITY 25/25** 0,964 - 0,971  
**REFRACTIVE INDEX n<sub>D20</sub>** 1,4560 - 1,4590  
**REFRACTIVE INDEX n<sub>D25</sub>** -  
**OPTICAL ROTATION (°)** 35,00 / 56,00  
**BOILING POINT (°C)** 281  
**MELTING POINT (°C)** -27  
**FLASH POINT (°C)** 113,00  
**ASSAY (% GC)** > 98  
**ACID VALUE (mg KOH/g)** < 5  
**SOLUBILITY** INSOLUBLE IN WATER  
**VAPOUR PRESSURE** NOT DETERMINED  
**OTHER SOLUBILITIES** SOLUBLE 1:1 IN ETHANOL 95%

**OTHER TECHNICAL DATA** CHIRAL QUALITY. RATIO CHIRAL APPROX. (R)-(+)-D >95 : (S)-(-)-L <5.

## STABILITY AND STORAGE

KEEP IN TIGHTLY CLOSED CONTAINER IN A COOL AND DRY PLACE, PROTECTED FROM LIGHT. WHEN STORED FOR MORE THAN 24 MONTHS, QUALITY SHOULD BE CHECKED BEFORE USE. EXPOSED TO WATER, THE LACTONE WILL HYDROLYSE AND IT MAY POLYMERIZE.

WE BELIEVE THE ABOVE INFORMATION TO BE CORRECT BUT WE DO NOT PRESENT IT AS ALL INCLUSIVE AND AS SUCH SHOULD BE USED AS A GUIDE. IT IS THE SOLE RESPONSIBILITY OF THE RECEIVER OF OUR PRODUCT TO COMPLY WITH EXISTING REGULATIONS AND INSTRUCTIONS.

THIS PRODUCT HAS NOT BEEN FILTERED DUE TO TECHNICAL REASONS. WE RECOMMEND NOT TO USE IT UNLESS FILTERED WHEN USED AS A RAW MATERIAL IN FOOD INTENDED FOR FINAL CONSUMERS.