

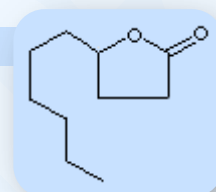
DECAN-4-OLIDE

SYNONYMS

5-Hexyloxolan-2-one; 5-Hexyldihydro-2(3H)-Furanone; 2-Decalactone; 4-Hexyl-4-hydroxybutanoic acid lactone; 4-Hexyl-gamma-butyrolactone; 4-Hydroxydecanoic acid gamma-lactone; 5-Hexyltetrahydro-2-furanone; Decanoic acid gamma-lactone; Decanolide-1,4; Hydroxydecanoic acid gamma-lactone; gamma-Decalactone; gamma-Hexyl-gamma-butyrolactone; gamma-N-Decalactone; gamma-N-Hexyl-gamma-butyrolactone; gamma-n-Decalactone; gamma-n-Hexyl-gamma-butyrolactone; FEMA No. 2360; FL No. :10.017;

PRODUCT IDENTIFICATION

CAS RN	706-14-9; 1336-42-1; 2825-92-5
EINECS RN	211-892-8
FORMULA	C ₁₀ H ₁₈ O ₂
MOLE WEIGHT	170.25



PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Clear oily liquid
MELTING POINT	
BOILING POINT	281 C
DENSITY	0.945 – 0.955
SOLUBILITY IN WATER	292 mg/l
pH	
VAPOR DENSITY	
REFRACTIVE INDEX	1.446 ± 0.02
FLASH POINT	113 C

STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions.
INCOMPATIBLE MATERIALS	Strong oxidizing agents, oxidizing agents, acids, alkaline hydroxides.
DECOMPOSITION PRODUCTS	Carbon oxides
POLYMERIZATION	Has not been reported
NFPA RATINGS	Health: 2; Flammability: 1; Instability: 0

SAFETY

HAZARD NOTES	Indication of Danger: Irritant. Irritating to eyes, respiratory system and skin.
EYE	Causes eye irritation
SKIN	Causes skin irritation.
INGESTION	May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
INHALATION	May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
CHRONIC	

TRANSPORT & REGULATORY INFORMATION

UN NO.	
HAZARD CLASS	
PACKING GROUP	
HAZARD SYMBOL	XI
RISK PHRASES	36/37/38
SAFETY PHRASES	26-37/39



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OTHER INFORMATION

Lactone is an internal cyclic monoester (anhydride) derived from the hydroxyl and carboxyl radicals of gamma or delta hydroxy acids by the removal of a H₂O between a carboxyl and a hydroxyl group in the same molecule; gamma-hydroxybutyric acid forms gamma-butyrolactone and delta-hydroxydecanoic acid forms delta-decalactone spontaneously. In result, prefixes describe the ring size: beta- is for 4-membered ring), gamma- , 5-membered, and delta-, 6-membered ring. Lactone moiety is important in the field of perfumery, vitamins, and and the antibiotics. Lactone undergoes the reactions of hydrolysis, reduction, aminolysis, michael reaction.

Odor description of gamma-Decalactone: fruity, creamy, sweet

SALES SPECIFICATION

APPEARANCE	Clear oily liquid
ASSAY	99.0% min
SPECIFIC GRAVITY	0.945 – 0.955
REFRACTIVE INDEX	1.446 ± 0.02
ACID VALUE	2.0 max (mg KOH/g)

PACKING

PRICE

