

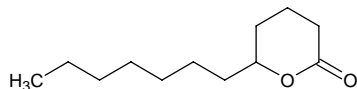
# delta-dodecalactone

## δ-ドデカラクトン

Formula C<sub>12</sub>H<sub>22</sub>O<sub>2</sub>

Mol. Wt. 198.30

CAS No. 713-95-1



SEQ No. 692 ラクトン類

FEMA No. 2401

JECFA No. 236

	JFFMA	JECFA	FCC
Chemical name	delta-dodecalactone	delta-Dodecalactone	δ-Dodecalactone
Content (NLT)	97.0 % (GC)	98 %	98.0 % sum of two isomers, δ isomer 95.0% min /GC(M-1a)
Refractive index	1.457-1.463 (n <sub>20D</sub> )	1.458-1.461 (n <sub>20D</sub> )	1.458-1.461 (n <sub>20D</sub> )
Specific gravity	0.948-0.954 (d <sub>20/20</sub> )	0.942-0.950 (d <sub>25/25</sub> )	0.942-0.950 (d <sub>25/25</sub> )
Acid value (NMT)	8.0	8.0	8.0 (Appendix VII, A.V.Method II)
Melting/Congeeing point			
Angular/Specific rotation			
Heavy metals (NMT)			
Solubility in ethanol			1 mL in 1 mL 95% ethanol
Other requirements		Saponification Value: 278 to 286	Saponification Value- between 278 and 286 (Appendix VI, 1-g sample)
Identification*	IR :1,2,3 MS :3,4,5 NMR :3,6	IR	IR

### \*References

- 1: Joint FAO/WHO Expert Committee on Food Additive (JECFA)
- 2: Food Chemicals Codex (FCC)
- 3: 有機化合物のスペクトルデータベース SDBS(独立行政法人産業技術総合研究所)
- 4: Wiley's Registry of Mass spectral Database
- 5: NIST/EPA/NIH Mass Spectral Library
- 6: Sigma-Aldrich