

## Product Specification

Product code:	1164
Product name:	Natural Massoia Lactone 95%
Chemical name or synonyms:	(R)-5-Hydroxy-2-decenoic acid, $\delta$ lactone
Empirical formula:	C <sub>10</sub> H <sub>16</sub> O <sub>2</sub>
Declaration in USA:	Natural
EEC:	Natural Flavoring Substance
Appearance:	Pale yellow to pale orange liquid
Odor:	Coconut, Buttery
Melting point (for solids only):	N/a
Boiling point:	170 - 174°C
Flash point:	ca. >93.3°C
Specific gravity @ 20°/20°C:	0.982 - 0.992
Refractive index @ 20°C:	1.467 - 1.477
Optical Rotation:	-60° to -110°
Assay (by GLC):	Minimum 95% pure as massoia lactone
%ee (by Chiral gc):	40% min. (%R: 70 min. and %S: 30 max.)
Solubility:	Insoluble in water; soluble in most organic solvents.
Storage and shelf life:	In tightly closed container away from light and source of ignition at max. 20°C; 24 months min.
FEMA No.:	3744
CFR No.:	172.515
EINECS No.:	259-359-1
CAS No.:	54814-64-1/51154-96-2
CoE No.:	N/a
HS code:	2932.20.5050
FLAVIS No.:	10.037

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