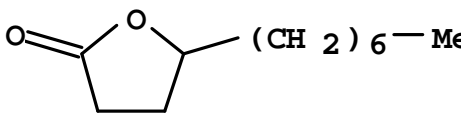


**TECHNICAL DATA SHEET**

11/25/2009

<b>GAMMA UNDECALACTONE</b>				
Formula: C <sub>11</sub> H <sub>20</sub> O <sub>2</sub>	FW: 184.30	Kosher: <input checked="" type="checkbox"/>		FCC: <input checked="" type="checkbox"/>
Appearance and Color: } Clear liquid / Colorless	Part Code: <b>70006</b>			
Density (g/ml) $d_4^{20}$ = 0.941-0.944	RI: $n_D^{25}$ = 1.448-1.454	Soluble in: <small>Code: FS=Freely, SpS=Sparingly, VSI=Very Slightly, I=Insoluble</small>		
Flash Point: 110°C Method: Closed Cup	Boiling Point: 297°C	<input checked="" type="checkbox"/> Alcohol	<input type="checkbox"/> Propylene Glycol	
Vapor Press: 0.002 mm Hg, 20°C log K(ow):	Acid Number: ≤ 2.0	<input type="checkbox"/> Essential Oils	<input checked="" type="checkbox"/> Water	
<b>CHROMATOGRAPHIC ANALYSIS</b> Purity: ≥ 98.0%				
GC: 0.53 mm ID x 30 m length, ~ 4.5 ml/min He Carrier Gas. FID DB-5: 180°C (0 min HOLD) to 225°C at 10°C/min (HOLD 10')				
<b>REFERENCE NUMBERS</b>		Natural/Nature Identical/Artificial: <input type="checkbox"/> NI		<b>ODOR/TASTE</b>
FEMA/GRAS N°: 3091 Co. Europe N°: 179 C.A.S. N°: 104-67-6 EINECS N°: 203-225-4 TARIFF N°: 2932.29.5050		<b>NATURAL OCCURRENCE</b>		Fruity, fragrant, musty, earthy, peach /
TRANSPORT:		Found in hydrolyzed soy protein, butter, peach, apricot and passion fruit. Also found in fresh apple, guava, blackberry, heated butter, heated beef fat, pork fat, cooked scented rice, yellow passion fruit juice, organum, mountain papaya,		
Hazard: None	<b>REGULATION</b>		<b>HAZ. CLASS</b>	<b>PG</b>
Point 1 2 3 4	1	R.T.M.D.		
Not Regulated	2	ADR/RID		
Category / other info:	3	I.A.T.A.		
	4	I.M.D.G.		
SAFETY DATA: Available	TSCA: Listed		<b>PACKING CONTAINERS:</b>	
STORAGE: Under Nitrogen	Temperature: ≤ -18°C <input checked="" type="checkbox"/>		<input type="checkbox"/> Epoxy-coated Steel Drums	
	≤ 5°C <input type="checkbox"/>		<input checked="" type="checkbox"/> Stainless Steel Drums	
Shelf Life: ~ 60 months	RT <input type="checkbox"/>		<input checked="" type="checkbox"/> Aluminum Bottles	
			<input checked="" type="checkbox"/> Glass Bottles	
			<input checked="" type="checkbox"/> Plastic / Plastic-lined drums	

Unless otherwise noted, this data sheet is for your information only and Fontarôme Chemical cannot be held responsible for its contents.