

## SPECIFICATION SHEET

**VERSION** 5

**VERSION DATE** 23/10/09

<b>PRODUCT</b>	BETA PINENE, NATURAL
<b>IUPAC NAME</b>	6,6-DIMETHYL-2-METHYLENE-BICYCLO [3.1.1]HEPTANE
<b>SYNONYMS</b>	LAEVO-BETA PINENE
<b>PLANT OF ORIGIN</b>	Pinus palustris Mill.
<b>PART OF THE PLANT</b>	DISTILLATION OF TURPENTINE FROM PINE
<b>FORMULA</b>	C <sub>10</sub> H <sub>16</sub>
<b>MOLECULAR WEIGHT</b>	136
<b>CAS</b>	127-91-3
<b>CAS 2</b>	18172-67-3
<b>EINECS</b>	204-872-5
<b>EINECS 2</b>	242-060-2
<b>FEMA</b>	2903
<b>CoE</b>	2114
<b>FDA</b>	172.515
<b>TARIFF NUMBER</b>	2902190000
<b>FOOD GRADE CERTIFICATE</b>	AVAILABLE ON REQUEST
<b>REACH REGISTRATION NO.</b>	01-2119519230-54

## SPECIFICATIONS

<b>ASPECT AT 20°C</b>	CLEAR MOBILE LIQUID
<b>COLOUR</b>	COLORLESS
<b>ODOUR</b>	DRY, WOODY, PINEY, RESINOUS
<b>DENSITY A 20°C (g/ml)</b>	0,866 – 0,876
<b>REFRACTIVE INDEX n<sub>D</sub>20</b>	1,476 – 1,481
<b>OPTICAL ROTATION (°)</b>	-22 /-16
<b>BOILING POINT (°C)</b>	166
<b>FLASH POINT (°C)</b>	43
<b>ASSAY (%GC)</b>	> 98
<b>ACID VALUE (mg KOH/g)</b>	-
<b>SOLUBILITY</b>	SOLUBLE IN ETHANOL 90%
<b>VAPOUR PRESSURE</b>	< 10 mgHg (20°C)
<b>OTHER SOLUBILITIES</b>	SOLUBLE IN ETHANOL, SOLUBLE 1-6 v/v IN ETHANOL 90° (25°C)



**CHEMDONE**  
FROM IDEA TO PRODUCTION

## **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. KEEP AWAY FROM SOURCES OF IGNITION.**

