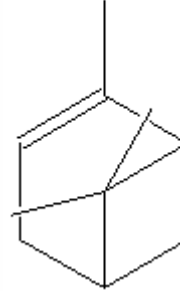


## SPECIFICATION SHEET

**VERSION** 5,00      **VERSION DATE** 26/02/19      **PRINT DATE** 04/03/21

**PRODUCT** PINENE ALPHA NATURAL  
**APPLICATIONS** Raw material for industrial use intended for the manufacture of flavours and/or fragrances.  
**IUPAC NAME** 2,6,6-TRIMETHYL BICYCLO-(3,1,1)-HEPT-2-ENE  
**SYNONYMS** 2-PINENE, PIN-2(3)-ENE, LEVO-ALPHA-PINENE

**PLANT OF ORIGIN** Pinus palustris Mill.  
**PART OF THE PLANT** DISTILLATION OF TURPENTINE OBTAINED FROM PINE  
**FORMULA** C10 H16  
**MOLECULAR WEIGHT** 136,00  
**CAS** 80-56-8  
**CAS 2** 7785-26-4  
**EINECS** 201-291-9  
**EINECS 2** 232-077-3  
**FEMA** 2902  
**TARIFF NUMBER** 2902190000



**FOOD GRADE CERTIFICATE** AVAILABLE ON REQUEST  
**REACH REGISTRATION NO.** 01-2119979519-16

### SPECIFICATIONS

**ASPECT AT 20° C** CLEAR MOBILE LIQUID  
**COLOUR** COLORLESS TO PALE YELLOW  
**ODOUR** PINE, CAMPHORACEOUS, EARTHY  
**TASTE**  
**DENSITY A 20° C (g / ml)** 0,855 - 0,865  
**DENSITY 25/25** -  
**REFRACTIVE INDEX nD20** 1,4620 - 1,4670  
**REFRACTIVE INDEX nD25** -  
**OPTICAL ROTATION (°)** -38,00 / -15,00  
**BOILING POINT (°C)** 166  
**MELTING POINT (°C)** -  
**FLASH POINT (°C)** 34,00  
**ASSAY (% GC)** > 97  
**ACID VALUE (mg KOH/g)** < 1  
**SOLUBILITY** NEARLY INSOLUBLE IN WATER  
**VAPOUR PRESSURE** < 10 mmHg at 20°C  
**OTHER SOLUBILITIES** SOLUBLE IN ETHANOL

**OTHER TECHNICAL DATA** Peroxide value < 10 mmol/L.

### 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

WE BELIEVE THE ABOVE INFORMATION TO BE CORRECT BUT WE DO NOT PRESENT IT AS ALL INCLUSIVE AND AS SUCH SHOULD BE USED AS A GUIDE. IT IS THE SOLE RESPONSIBILITY OF THE RECEIVER OF OUR PRODUCT TO COMPLY WITH EXISTING REGULATIONS AND INSTRUCTIONS.

THIS PRODUCT HAS NOT BEEN FILTERED DUE TO TECHNOLOGICAL REASONS. WE RECOMMEND NOT TO USE IT UNLESS FILTERED WHEN USED AS A RAW MATERIAL IN FOOD INTENDED FOR FINAL CONSUMERS.