

## SPECIFICATION SHEET

**VERSION** 1,00      **VERSION DATE** 18/07/11      **PRINT DATE** 02/07/22

**PRODUCT** PINE NEEDLES FIRMENICH 973814 = 123053  
**APPLICATIONS** Raw material for industrial use intended for the manufacture of flavours and/or fragrances.  
**IUPAC NAME** PINE NEEDLES ABSOLUTE  
**PLANT OF ORIGIN** Pinus sylvestris L.  
**PART OF THE PLANT** NEEDLES AND TWIGS  
**SYNONYMS**

**CAS** 84012-35-1  
**CAS 2** 8023-99-2  
**EINECS** 281-679-2  
**EINECS 2** 8002-09-3  
**FEMA** 2906  
**TARIFF NUMBER** 3301294900  
**KOSHER CERTIFICATE** AVAILABLE ON REQUEST

**REACH REGISTRATION NO.** All the ingredients of the mixture have been registered or they are exempt from registration.

### SPECIFICATIONS

**ASPECT AT 20°C** VERY VISCOUS PASTY LIQUID  
**COLOUR** GREEN TO BROWN  
**ODOUR** TURPENTINE, LEMON  
**TASTE**  
**DENSITY AT 20°C (g / ml)** 1,000 - 1,080  
**DENSITY 25/25** -  
**REFRACTIVE INDEX nD20** 1,5150 - 1,5350  
**REFRACTIVE INDEX nD25** -  
**OPTICAL ROTATION (°)** /  
**BOILING POINT (°C)** -  
**MELTING POINT (°C)** -  
**FLASH POINT (°C)** 85,00  
**ASSAY (% GC)** -  
**ACID VALUE (mg KOH/g)** -  
**SOLUBILITY** INSOLUBLE IN WATER  
**VAPOUR PRESSURE** NOT DETERMINED  
**OTHER SOLUBILITIES** SOLUBLE IN ETHANOL

**OTHER TECHNICAL DATA** RESIDUAL SOLVENTS: ISOPROPYL ACETATE: 0,02%, HEXANE: 0,001%,  
CYCLOHEXANE: 0,001%, ETHYL ALCOHOL: 3%

### 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.

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.