



# PINENE BETA

PINE, WOODY, LIME, DRY

BIOBASED 100%

## APPLICATION INFORMATION

Used in flavor formulation with citrus or tropical fruit notes.

## CHEMICAL STRUCTURE

(1S,5S)-6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane



Chemical formula - C<sub>10</sub>H<sub>16</sub>

## SYNONYM

(-)-Pin-2(10)-ene

## TENACITY ON BLOTTER

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HOURS

DAYS

WEEKS

## BLOOM DIFFUSIVITY



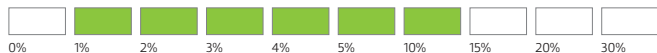
POOR

FAIR

GOOD

VERY

## TYPICAL USE LEVEL



## OCCURENCE IN NATURE

Found in turpentine and other essential oils such as lemon, nutmeg, hyssop, coriander and cumin seed.

## TYPICAL PHYSICAL PROPERTIES

|  |                                 |
|--|---------------------------------|
| - Flash Point °C                         | 43 °C                           |
| - [α] <sub>D</sub> <sup>20</sup> minimum | -                               |
| - GC                                     | 98% min. as Pinene beta         |
| - Appearance                             | Colorless to pale yellow liquid |
| - CAS No.                                | 18172-67-3                      |
| - M.W.                                   | 136.24                          |
| - FEMA / GRAS No.                        | -                               |
| - Food Grade Cert.                       | -                               |
| - CLogP                                  | 4.35                            |
| - Vapor Pressure                         | 334 Pa at 25°C                  |

## PROPERTIES

|                                 | POOR | FAIR | GOOD |
|---------------------------------|------|------|------|
| STABILITY                       |      |      |      |
| - Hypochlorite bleach           | ●    |      |      |
| - Perborate Powder Detergent    | ●    |      |      |
| - Liquid Detergent              |      | ●    |      |
| - Concentrated Fabric Softeners |      |      | ●    |
| - Soaps                         |      |      | ●    |
| - Alcoholic fine fragrances     |      |      | ●    |
| - Toiletry Applications         |      | ●    |      |
| - Antiperspirants               |      | ●    |      |
| SUBSTANTIVITY                   |      |      |      |
| - Skin                          | ●    |      |      |
| - Dry Fabric                    | ●    |      |      |
| - Wet Fabric                    | ●    |      |      |
| - Hair                          | ●    |      |      |