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## Typical Product Specifications & Properties

### fir needle oil

CAS Number: : 8021-29-2

| Specifications   | Limits                                                                               |
|------------------|--------------------------------------------------------------------------------------|
| Density          | 0.905-0.925 (1515 c)                                                                 |
| Odor Type        | balsamic                                                                             |
| Appearance       | pale yellow clear liquid                                                             |
| Specific gravity | 0.89500 to 0.92000 @ 25.00 °C                                                        |
| Vapor Pressure   | 0.580000 mm/Hg @ 25.00 °C                                                            |
| Storage          | store in cool, dry place in tightly sealed containers, protected from heat and light |
| Pounds/Gallon    | 7.447 to 7.655                                                                       |
| Refractive Index | 1.45700 to 1.47000 @ 20.00 °C                                                        |
| Optical Rotation | -33.00 to -45.00                                                                     |
| Boiling Point    | 132.00 °C. @ 760.00 mm Hg                                                            |
| Shelf Life       | 24 month(s) or longer if stored properly                                             |
| Flash Point      | 104.00 °F.TCC                                                                        |



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| Specifications | Limits                               |
|----------------|--------------------------------------|
| Odor           | fresh dry fir forest earthy woody    |
| Insolubility   | in glycerin, propylene glycol, water |
| Color          | colorless to pale yellow liquid      |
| Solubility     | equal vol. 90 alcohol                |



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