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## Typical Product Specifications & Properties

# SBP 100/140

CAS Number: : 64742-49-0

| Specifications                       | Limits                                    |
|--------------------------------------|---|
| Coefficient of Cubic Expansion @ 20C | 12 10 <sup>-4</sup> /C                    |
| Relative Evaporation Rate (Ether=1)  | 6   |
| Vapour Pressure @ 20C                | 4.4 kPa                                   |
| Hildebrand Solubility Parameter      | 7.5 (cal/cm <sup>3</sup> ) <sup>1/2</sup> |
| Antoine Constant C #                 | 349.980 kPa, C                            |
| Aromatics                            | <5 mg/kg                                  |
| Fractional Polarity                  | 0   |
| Antoine Constant A #                 | 7.51210 kPa, C                            |
| Vapour Pressure @ 0C                 | 1.8 kPa                                   |
| Benzene                              | <3 mg/kg                                  |
| n-Hexane                             | <0.1 % m/m                                |
| Flash Point (Abel)                   | 1 C                                       |



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| Specifications                          | Limits            |
|---|-------------------|
| Auto Ignition Temp                      | 260 C (DIN 51794) |
| Thermal Conductivity @ 20C              | 0.13 W/m/C        |
| Molecular weight                        | 110 g/mol         |
| Density @ 15 ° C                        | 0.728 kg/L        |
| Refractive Index @ 20° C                | 1.407             |
| Colour                                  | +30 Saybolt       |
| Bromine Index                           | <5 mg Br/100g     |
| Distillation - Initial Boiling Point    | 1.06 C            |
| Distillation - Dry Point                | 1.36 C            |
| Relative Evaporation Rate (nBuAc=1)     | 1.9               |
| Antoine Constant B #                    | 2541.50 kPa, C    |
| Temperature Limits for Antoine Equation | +40 to +105 C     |



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| Specifications                       | Limits               |
|--------------------------------------|----------------------|
| Saturated Vapour Concentration @ 20C | 198 g/m <sup>3</sup> |
| Naphthenes                           | 35 % m/m             |
| Sulphur                              | <0.5 mg/kg           |
| Lower Explosion Limit in Air         | 0.9 % v/v            |
| Upper Explosion Limit in Air         | 6.8 % v/v            |
| Auto Ignition Temp                   | 310 C (ASTM E659)    |
| Electrical Conductivity @ 20C        | <1 pS/m              |
| Aniline point                        | 63 C                 |

| Specifications        | Limits                  |
|-----------------------|-------------------------|
| Pour point            | <-50 C                  |
| Kauri-Butanol Number  | 33                      |
| Viscosity @ 25°C      | 0.72 mm <sup>2</sup> /s |
| Surface Tension @ 20C | 22 mN/m                 |



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| Specifications         | Limits   |
|------------------------|----------|
| Hydrogen Bonding Index | 0        |
| Paraffins              | 65 % m/m |



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