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## Typical Product Specifications & Properties

# Hexane Polymerisation/Extraction

CAS Number: : 64742-49-0

| Specifications                          | Limits         |
|---|----------------|
| Relative Evaporation Rate (Ether=1)     | 1.4            |
| Electrical Conductivity @ 20C           | <1 pS/m        |
| Density @ 15 ° C                        | 0.675 kg/L     |
| Bromine Index                           | <5 mg Br/100g  |
| Antoine Constant C #                    | 326.200 kPa, C |
| Vapour Pressure @ 20C                   | 19 kPa         |
| n-Hexane                                | 52 % m/m       |
| Pour point                              | <-50 C         |
| Refractive Index @ 20° C                | 1.379          |
| Colour                                  | +30 Saybolt    |
| Distillation - Dry Point                | 70 C           |
| Temperature Limits for Antoine Equation | +20 to +70 C   |



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| Specifications                       | Limits                 |
|--------------------------------------|------------------------|
| Aromatics                            | <5 mg/kg               |
| Upper Explosion Limit in Air         | 7.4 % v/v              |
| Hydrogen Bonding Index               | 0                      |
| Fractional Polarity                  | 0                      |
| Molecular weight                     | 86 g/mol               |
| Coefficient of Cubic Expansion @ 20C | 13 10 <sup>-4</sup> /C |
| Distillation - Initial Boiling Point | 66 C                   |
| Relative Evaporation Rate (nBuAc=1)  | 8.0                    |
| Saturated Vapour Concentration @ 20C | 381 g/m <sup>3</sup>   |
| Paraffins                            | 85 % m/m               |
| Benzene                              | <3 mg/kg               |
| Sulphur                              | <0.5 mg/kg             |



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| Specifications               | Limits                  |
|------------------------------|-------------------------|
| Lower Explosion Limit in Air | 1.1 % v/v               |
| Auto Ignition Temp           | 375 C (ASTM E659)       |
| Auto Ignition Temp           | 270 C (DIN 51794)       |
| Kauri-Butanol Number         | 31                      |
| Viscosity @ 25°C             | 0.49 mm <sup>2</sup> /s |
| Surface Tension @ 20C        | 19 mN/m                 |
| Thermal Conductivity @ 20C   | 0.12 W/m/C              |
| Antoine Constant A #         | 7.38070 kPa, C          |

| Specifications       | Limits         |
|----------------------|----------------|
| Antoine Constant B # | 2110.27 kPa, C |
| Vapour Pressure @ 0C | 8.2 kPa        |
| Naphthenes           | 15 % m/m       |
| Flash Point (Abel)   | -30 C          |



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| Specifications                  | Limits                                    |
|---------------------------------|---|
| Aniline point                   | 65 C                                      |
| Hildebrand Solubility Parameter | 7.3 (cal/cm <sup>3</sup> ) <sup>1/2</sup> |



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