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## Typical Product Specifications & Properties

# Toluene

CAS Number: : 108-88-3

| Specifications                       | Limits         |
|--------------------------------------|----------------|
| Density                              | 0.866 (204 c)  |
| Very Soluble                         | in water       |
| Melting Point                        | -94.5 c        |
| Relative Evaporation Rate (Ether=1)  | 6              |
| Vapour Pressure @ 20C                | 2.9 kPa        |
| Aromatics                            | 19 mg/kg       |
| Aniline point                        | 60 C           |
| Refractive Index @ 20° C             | 1.497          |
| Distillation - Initial Boiling Point | 110 C          |
| Antoine Constant B #                 | 1342.31 kPa, C |
| Naphthenes                           | 31 %           |
| Lower Explosion Limit in Air         | 0.6 % v/v      |



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| Specifications                          | Limits                                    |
|---|---|
| Viscosity @ 25°C                        | 1.5 mm <sup>2</sup> /s                    |
| Hildebrand Solubility Parameter         | 7.9 (cal/cm <sup>3</sup> ) <sup>1/2</sup> |
| Antoine Constant C #                    | 219.187 kPa, C                            |
| Vapour Pressure @ 0C                    | 0.89 kPa                                  |
| Paraffins                               | 50 %                                      |
| Auto Ignition Temp                      | 297 C (ASTM e659)                         |
| Auto Ignition Temp                      | 230 C (DIN 51794)                         |
| Surface Tension @ 20C                   | 26 mN/m                                   |
| Density @ 15 ° C                        | 0.871 kg/L                                |
| Colour                                  | +30 Saybolt                               |
| Temperature Limits for Antoine Equation | +40 to +100 C                             |
| Upper Explosion Limit in Air            | 6.0 % v/v                                 |



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Disclaimer: this is a web generated product specification and property document. All information on this document is subject to reconfirmation at time of quote and order.



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| Specifications                       | Limits                 |
|--------------------------------------|------------------------|
| Thermal Conductivity @ 20C           | 0.14 W/m/C             |
| Hydrogen Bonding Index               | 0.5                    |
| Molecular weight                     | 155 g/mol              |
| Coefficient of Cubic Expansion @ 20C | 11 10 <sup>-4</sup> /C |
| Distillation - Dry Point             | 111 C                  |
| Relative Evaporation Rate (nBuAc=1)  | 1.9                    |
| Antoine Constant A #                 | 6.07577 kPa, C         |
| Saturated Vapour Concentration @ 20C | 110 g/m <sup>3</sup>   |

| Specifications                | Limits   |
|-------------------------------|----------|
| Benzene                       | <3 mg/kg |
| Sulphur                       | <1 mg/kg |
| Flash Point (Abel)            | 67 C     |
| Electrical Conductivity @ 20C | <1 pS/m  |




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| Specifications       | Limits  |
|----------------------|---|
| Pour point           | <-30 C  |
| Kauri-Butanol Number | 33  |
| Fractional Polarity  | 0   |
| Vapor Pressure       | 36.7 mm hg (30 c)   |
| Refractive Index     | 1.4967 (20 c)   |
| Odor                 | benzene odor  |
| Color                | colorless clear liquid  |
| Flash Point          | (cc) 4.4 c  |
| Solubility           | alcohol, benzene, ether, acetone, chloroform, petrol. ether, ethyl acetate          |
| Boiling Point        | 110.7 c   |
| Chemical Structure   |  |



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