

## Food Grade Hexane

IS : 3470 - 2002

| Sr.No.<br>Method in | Characteristics                                      | Requirement      | Appendix           |
|---------------------|--|------------------|--------------------|
|                     |  |                  | IS : 1448          |
| i)                  | Distillation :                                       | -                | P:18<br>(Method B) |
|                     | a) Initial Boiling Point,<br>Deg.C. Min.             | 63               |                    |
|                     | b) Dry Point, Deg.C., Max.                           | 70               |                    |
|                     | c) Temperature range of<br>final 10%, Deg.C. Max.    | 2                |                    |
| ii)                 | Composition :  |                  |                    |
|                     | a) Aromatics, % by Vol, Max.                         | 1.0              | - P:63             |
|                     | b) Saturates, % by Vol, Min.                         | 98.5             | - P:23             |
| iii)                | Density at 25.0 Deg.C., Max.                         | 0.687            | A -                |
| iv)                 | Colour (Saybolt), Min.                               | + 30             | - P:14             |
| v)                  | Sulphur content, ppm, Max.                           | 75               | B -                |
| vi)                 | Corrosion, copper strip,<br>3 hrs at 50 Deg.C., Max. | 1                | - P:15             |
| vii)                | Doctor test  | Negative         | - P:19             |
| viii)               | Lead, g/1, Max.                                      | 0.0005           | C -                |
| ix)                 | Phosphates, ppm, Max.                                | 20               | - P:54             |
| x)                  | Chlorides (as C1), ppm, Max.                         | 20               | D -                |
| xi)                 | Bromine Number, Max.                                 | 1                | - P:44             |
| xii)                | Non-volatile residue, g/100 ml,<br>Max.              | 0.001            | E -                |
| xiii)               | Reaction of non-volatile residue                     | To pass the test | F -                |
| xvi)                | UV absorption Test                                   |                  |                    |

| <u>Wave Length (mm)</u> | <u>Spec.Value</u> |
|-------------------------|-------------------|
| 280-290                 | 0.15 max          |
| 290-300                 | 0.13 max          |
| 300-359                 | 0.08 max          |
| 360-400                 | 0.02 max          |