

OCTANOL (2-ETHYL-HEXANOL)

Last revision 2018

Chemical Name: Molecular formula: C₈ H₁₈O
No. CAS: 104-76-7

General Description:

Octanol (2-Ethyl-hexanol) is a colorless liquid with a specific odor. The product is poorly soluble in water. It is combustible and flammable.

When heated above 75 °C, octanol vapor forms explosive mixtures with air. By heating to decomposition, octanol forms carbon monoxide and dioxide. It can also form irritating and corrosive gases.

Technical Quality Conditions:

| Characteristics | M.U. | Values | Test methods |
|--|-------------|---------|--------------|
| 2 Ethyl-hexanol, min. | % | 99.7 | ASTM D 5008 |
| Distillation range (95% vol.) | °C | 183-185 | ASTM D 1078 |
| Acidity (CH ₃ COOH), max. | % | 0.01 | ASTM D 1613 |
| Water (Karl-Fischer), max. | % | 0.05 | ASTM E 203 |
| Color, max. | Hazen Units | 5 | SR ISO 2211 |
| Aldehydes and cetones content (2 ethyl-hexanal), max | % | 0.050 | STAS 9120 |
| Unsaturated content (2 ethyl-hexenal), max | % | 0.01 | STAS 9120 |
| Color after H ₂ SO ₄ test (1 h la 95° C) , max | Hazen Units | 20 | STAS 9120 |

Specific Properties:

| | |
|----------------------------|-----------|
| Density, g/cm ³ | 0.832 |
| Boiling temperature, °C | 183-186 |
| Ignition temperature, °C | 75 |
| Flammability | flammable |

The specific properties present approximate values and contain general information, without being part of the technical quality conditions.



Main Applications:

- in plasticizers manufacturing;
- in synthetic lubricants manufacturing;
- in surfactants and antifoaming agents manufacturing;
- as low volatility solvent for animal fats and vegetal and mineral oils;
- as wetting and dispersion agent for textiles;

Packing and storage:

The product is packed in 20 or 40 tons steel tanks, property of supplier or client. Storage in tanks is done by providing a nitrogen blanket and ventilation systems with flame traps.

Safety Considerations:

Octanol (2-Ethyl-hexanol) is a toxic product. Before handling and using of product, the personnel must be aware of the dangers implied. This information is available in SDS and on the product label.

Attention:

Please contact OLTCHIM to see if the document has been revised and for any other additional information related to the product

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of non-compliance with the information provided herein.