

ACETONE CAS NO. 67-64-1

Product Description

- - Acetone is an organic solvent of industrial ٠ and chemical significance. It is a colourless, highly volatile and flammable liquid with a characteristic pungent odour. It's capable of dissolving many fats and resins. It's used extensively in the manufacture of artificial fibers (such as some rayons).
 - Moreover, it's used as a solvent for vinyl and acrylic resins, lacquers, alkyd paints, inks, cosmetics (such as nail polish remover), and varnishes. It is used in the preparation of paper coatings, adhesives, and heat-seal coatings and is also employed as a starting material in the synthesis of many compounds.

Key Features

- Active ingredient
 - Colourless .
 - High solubility .
 - High volatility ٠
 - Highly effective solvent ٠
 - Highly flammable liquid • Miscible with .
 - diethyl ether
 - Miscible with ethanol • ٠
 - Miscible with water • Pungent odour

Application

- Adhesive
- Agent for art work Cleaner for •
- grease
- Coating •
- Fibers •
- Ink •
- Lacquers •
- Natural gas fuel additional •
- ٠ Oil
- Paint •
- Permanent marker
- Plastic .
- Polar aprotic solvent Resin ٠
- Solvent for acetylene
- Solvent for cellulose acetate
- Solvent for cellulose nitrate •
- Solvent for celluloid •
- Superglue remover
- Varnishes

| Properties | Typical Value | Unit | Test Based On |
|------------------------------|---------------------------------|------------|---------------|
| Assay | 99.5 Min | wt% | |
| Autoignition Temperature | 465 (869) | °C (°F) | |
| Boiling Point @ 760 mmHg | | | |
| Dry Point | 56.5 (133) | °C (°F) | |
| Color Pt-Co | 5 Max | - | ASTM D-1209 |
| Critical Pressure | 46.38 | ATM | |
| Critical Temperature | 232.65 | °C | |
| Critical Volume | 210 | ml/g.mol | |
| Empirical Formula | C ₃ H ₆ O | | |
| Evaporation Rate | | | |
| (ether = 1) | 2 | - | |
| (n-butyl acetate = 1) | 6 | - | |
| Expansion Coefficient | 0.00143 | Per °C | |
| Flash Point | -20 (-4) | °C (°F) | |
| Freezing Point | -94.7 (-138.47) | °C (°F) | |
| Hansen Solubility Parameters | | | |
| Hydrogen bonding | 7.0 | - | |
| Nonpolar | 15.5 | - | |
| Polar | 10.4 | - | |
| Heat of Combustion | -394.86 | kcal/g.mol | |
| Heat of Vaporization | 7076 | cal/g.mol | |

| Properties | Typical Value | Unit | Test Based On |
|--------------------------------------|---------------|---------------|---------------|
| Liquid Heat Capacity @ 25 °C | 0.512 | cal/g K | |
| Liquid Viscosity @ 25 °C | 0.309 | cP (mPa.s) | |
| Maximum Incremental Reactivity (MIR) | 0.43 | - | |
| Molecular Weight | 58.08 | - | |
| Nitrocellulose Solubility | Active | | |
| Refractive Index @ 20°C | 1.359 | - | |
| Solubility | | | |
| In water, @ 20 °C | Complete | | |
| Water in, @ 20 °C | Complete | | |
| Specific Gravity @ 20°C/20°C | 0.79 | - | |
| Surface Tension @ 25 °C | 23.1 | Dynes/cm | |
| Vapor Density (air = 1) | 2.0 | - | |
| Vapor Pressure | | | |
| @ 25 °C | 30 | kPa | |
| Wt/Vol @ 20 °C | 0.78 (6.50) | Kg/L (lb/gal) | |

Notes

Typical properties: these are not to be construed as specifications.

¹Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance please contact our sales representative

©2020-2021. Union Petrochemical. The user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. Union Petrochemical does not guarantee the typical (or other non-specification) values. Typical values only represent the values one would expect if the properties were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values may not be based upon a statistically relevant number of tests. Analysis may be performed on representative samples and not the actual product shipped. The information is this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no warranty against patent infringement, not any endorsement of any product or process, and we expressly disclaim any contrary implication.