



TECHNICAL DATA SHEET

ecomate® - BLOWING AGENT

Ecomate® is a colorless, flammable liquid ester which has a faint, pleasant, fruity odor.

It is highly soluble in water, and miscible with most organic solvents, including other foam blowing agents. Ecomate is readily soluble in all urethane raw materials at common levels currently used in urethane formulations.

Ecomate and the use of is patented as a foam blowing agent [US 6,753,357, etc].

HEALTH & SAFETY ISSUES

Before use, please refer to the Material Safety Data Sheet for information on the correct handling procedures for this product and the safety issues and hazards associated with its use.

PHYSICAL PROPERTIES

| | Metric | U.S. |
|--|--------|--|
| Auto ignition temperature | 465°C | 869°F |
| Boiling Point at 760 mm Hg | 31.5°C | 88.7°F |
| Critical Pressure, bars, psia | 60 | 870 |
| Critical Temperatures | 214°C | 417°F |
| Evaporation Rate (Ether = 1) | | 1.6 |
| Flammable Limits | | |
| - (LEL, vol %) | | 5 |
| - (UEL, vol %) | | 23 |
| Flash Point - Tag Closed Cup | -19°C | -2°F |
| Freezing Point | -100°C | -148°F |
| Heat of Vaporization J/g, BTU/lb at normal boiling point | 471 | 202.3 |
| Molecular Formula | | C ₂ H ₄ O ₂ |
| Molecular Weight | | 60.05 |
| Refractive Index, n _D ²⁰ | | 1.3434 |
| Solubility at 20°C (68°F), wt % in water | | 33.0 |
| Specific Gravity, 20°C (68°F) | | 0.980 |
| Specific Heat of Liquid J/g/°C, BTU/lb/°F at 68°F | 2.06 | 0.493 |
| Surface Tension in air at 25°C (77°F), dynes/cm | | 24.62 |
| Threshold Limit Value (TLV) ppm | | 100 |
| Vapor Density (air=1) | | 2.07 |
| Vapor Pressure, 20°C (68°F), kPa, psia | 64 | 9.2 |
| Viscosity at 25°C (77°F), centipoise | | 0.355 |

Success
through
Innovation

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