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|--|--------------------|------------------------------|---------------------|------------|
|  <b>synerzine</b> <sup>TM</sup> | <b>Title:</b>      | W01801 Product Specification |                     |            |
|  | <b>Document #:</b> | 02-1006                      | <b>Rev #:</b>       | 000        |
|  | <b>Status:</b>     | ACTIVE                       | <b>Date Issued:</b> | 06/21/2013 |

**Product Identifiers**

|                  |                 |        |          |
|------------------|-----------------|--------|----------|
| Product Name:    | ISOVALERIC ACID |        |          |
| Synerzine Item # | <b>W01801</b>   | CAS #  | 503-74-2 |
|                  |                 | FEMA # | 3102     |

**Material Properties**

|                   |         |                      |                  |
|-------------------|---------|----------------------|------------------|
| Molecular Formula | C5H10O2 | Flash Point (°F, CC) | 159              |
| Molecular Weight  | 102.13  | Boiling Point        | 177°C @ 760 mmHg |
| Shelf Life (days) | 730     | Physical State       | Liquid           |

|                       |   |
|-----------------------|---|
| Solubility            | Soluble in alcohol, chloroform, and ether. Slightly soluble in water.   |
| Storage and Stability | Store in fully closed container in refrigerated (2-8°C) dry conditions. Stable for years, with slight development of discoloration. |
| Handling Precautions  | Avoid contact of eyes and skin. In case of contact, flush copiously with water. Keep away from heat and flame.                      |

**Specified Critical Limits**

| Critical Property | Test Method             | UOM                      | Lower Limit               | Upper Limit |
|-------------------|-------------------------|--------------------------|---------------------------|-------------|
| Color             | Visual Analysis         | None                     | Colorless                 | Pale yellow |
| Odor              | Organoleptic Analysis   | None                     | Cheesy, sour, sweaty feet |             |
| Chemical Purity   | Gas Chromatography      | %                        | 98.0%                     | 100.0%      |
| Density           | Density Analysis        | g/cm <sup>3</sup> @ 20°C | 0.920                     | 0.940       |
| Refractive Index  | Refractometric Analysis | nD20                     | 1.393                     | 1.413       |

**Notes**

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*This specification was generated electronically, and is therefore unsigned.*

**Synerzine**  
Quality Control Dept.

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