

# Specification

Technical Data Sheet

|                                |                                  |                                          |
|--------------------------------|----------------------------------|------------------------------------------|
| <b>CAS</b><br><b>3964-18-9</b> | <b>STORAGE</b><br><b>Ambient</b> | <b>MOLECULAR WEIGHT</b><br><b>176.17</b> |
|--------------------------------|----------------------------------|------------------------------------------|

**PRODUCT****2,3-Dimethyl-2,3-dinitrobutane**

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Product number</b>    | 90036770                                                                                            |
| <b>CAS number</b>        | 3964-18-9                                                                                           |
| <b>Molecular formula</b> | (CH <sub>3</sub> ) <sub>2</sub> C(NO <sub>2</sub> )C(CH <sub>3</sub> ) <sub>2</sub> NO <sub>2</sub> |
| <b>Molecular weight</b>  | 176.17 g/mol                                                                                        |

| PARAMETER                          | SPECIFICATION                         |
|------------------------------------|---------------------------------------|
| <b>Appearance</b>                  | White to Off-white crystalline powder |
| <b>Purity</b>                      | ≥ 98.0%                               |
| <b>Melting Point</b>               | 210 - 214°C                           |
| <b>Water</b>                       | ≤ 0.5%                                |
| <b>Acidity (HCl)</b>               | ≤ 0.10%                               |
| <b>Chloride (Cl-)</b>              | ≤ 0.02%                               |
| <b>Hydroxyl value (mgKOH/g)</b>    | ≤ 0.15                                |
| <b>Identification (RAMAN)</b>      | Conforms to Reference                 |
| <b>Residual Solvents: Methanol</b> | ≤ 0.5%                                |
| <b>Water insoluble matter</b>      | ≤ 0.01%                               |

|                                |                                                                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIFICATION STATEMENT</b> | The values stated above represent the standard specification for this product, issued under <b>Molekula Ltd</b> 's quality management system. Batch-specific results are provided on the Certificate of Analysis. |
| <b>STORAGE</b>                 | Store as indicated on the product label, away from light, moisture and incompatible materials.                                                                                                                    |

Molekula Ltd would like to thank you for your support of our products and service.

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