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## Typical Product Specifications & Properties

# 2,3-Butanedione

CAS Number: : 431-03-8

| Specifications      | Limits                        |
|---------------------|-------------------------------|
| Molecular weight    | 86.09                         |
| EINECS              | 207-069-8                     |
| InChI               | 1S/C4H6O2/c1-3(5)4(2)6/h1-2H3 |
| InChIKey            | QSJXEFYPDANLFS-UHFFFAOYSAN    |
| Vapor Density       | 3                             |
| Flash Point         | 45 &deg;F                     |
| Merck               | 14,2966                       |
| Storage Temperature | 2-8&deg;C                     |
| Water solubility    | 200 g/L (20 °C)               |
| Boiling Point       | 88 &deg;C                     |
| Refractive Index    | 1.394                         |
| FEMA                | 2370                          |



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| Specifications               | Limits                                                                                                                                                     |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Melting Point                | -4-2 °C                                                                                                                                                    |
| Stability                    | Stable. Flammable. Incompatible with acids, strong bases, metals, reducing agents, oxidizing agents. Protect from moisture and water. Note low flashpoint. |
| Vapor Pressure               | 52.2 mm Hg ( 20 °C)                                                                                                                                        |
| BRN Number                   | 605398                                                                                                                                                     |
| Density                      | 0.985 g/mL at 20 °C                                                                                                                                        |
| Boiling Point                | 88 °C                                                                                                                                                      |
| Vapor Pressure               | 56.8 mm Hg                                                                                                                                                 |
| Atmospheric OH Rate Constant | 2.38E-13 cm <sup>3</sup> /molecule-sec                                                                                                                     |
| Water solubility             | 2.00E+05 mg/L                                                                                                                                              |
| Henry's Law Constant         | 1.33E-05 atm-m <sup>3</sup> /mole                                                                                                                          |
| log P (octanol-water)        | -1.34E+00                                                                                                                                                  |
| Melting Point                | -2.40E+00 °C                                                                                                                                               |



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| Specifications | Limits       |
|----------------|--------------|
| Solubility     | 200g/l       |
| Form           | Liquid       |
| Color          | Clear yellow |



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