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## Typical Product Specifications & Properties

# Magnesium nitrate hexahydrate

CAS Number: : 13446-18-9

| Specifications   | Limits   |
|------------------|--|
| Molecular weight | 256.41   |
| EINECS           | 231-104-6  |
| SMILES           | [Mg+2].[N+](=O)([O-])[O-].O.[N+]([O-])<br>([O-])=O.O.O.O.O.O |
| InChI            | MFUVDXOKPBAHMC-UHFFFAOYSA-N                                  |
| InChIKey         | 1S/Mg.2NO3.6H2O/c;2*2-<br>1(3)4;;;;/h;;;6*1H2/q+2;2*-1;;;;   |
| Solubility       | H2O: 1 M at 20 &deg;C, clear, colorless                      |
| Melting Point    | 89 &deg;C  |
| Vapor Density    | 6  |
| Sensitive        | Hygroscopic  |
| Water solubility | 420 g/L (20 °C)  |
| Vapor Pressure   | 1 mm Hg ( 621 &deg;C)  |
| Flash Point      | -26 &deg;F   |



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| Specifications      | Limits  |
|---------------------|---|
| Stability           | Stable. Strong oxidizer - contact with organic material may lead to fire. Do not store near combustible materials. Incompatible with combustible materials, organics, strong reducing agents. |
| Merck               | 14,5674   |
| Form                | turnings  |
| Storage Temperature | 2-8&deg;C   |
| Boiling Point       | 330 &deg;C  |
| Flash Point         | -26 &deg;F  |
| Density             | 1.63  |



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