

| Polypropylene Chemical Properties | |
|-----------------------------------|-------------------------------------|
| mp | 189 ° C(lit.) |
| density | 0.9 g/mL at 25 ° C(lit.) |
| refractive index | <i>n</i> _{20/D} 1.49(lit.) |
| storage temp. | 20° C |
| form | particles (Spherical) |
| Merck | 13,7663 |
| NIST Chemistry Reference | Polypropylene, atactic(9003-07-0) |
| EPA Substance Registry System | 1-Propene, homopolymer(9003-07-0) |

Safety Information

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|---------------------------|---------------------------------------|
| WGK Germany | 3 |
| RTECS | UD1842000 |
| Hazardous Substances Data | 9003-07-0 (Hazardous Substances Data) |

MSDS Information

| Provider | Language |
|---------------|----------|
| Polypropylene | English |
| SigmaAldrich | English |

Polypropylene Usage And Synthesis

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| Usage | Used with ram- and screw-injection machines. For automotive, housewares, general molding products and multi- and monofilament fiber. |
| Usage | General extrusion grade polymer. |
| Usage | Base polymer in hot melt adhesives and paper-laminating, extender and viscosity modifier in caulks and sealants and waterproofing agent in wire and cable applications. |
| Usage | Modifier for waxes to reduce blocking, scuffing and abrasion. Improves pigment dispersion in polypropylene films and fibers. |
| General Description | Tan to white odorless solid. Less dense than water and insoluble in water. Hence floats on water. |
| Air & Water Reactions | Insoluble in water. |

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| Reactivity Profile | Polypropylene reacts with chlorine, fuming nitric acid and other strong oxidizing agents. |
| Health Hazard | No apparent toxicity |