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POTASSIUM CARBONATE LIQUID PRODUCT

TECHNICAL INFORMATION

General Properties of ARMAND PRODUCTS Brand Potassium Carbonate

| | |
|-------------------------|-----------------------------------|
| Empirical Formula | K_2CO_3 |
| CAS Number | 584 - 08 - 7 |
| Molecular Weight | 138.21 |
| Fire and Explosion Data | Not combustible No flash point |

Liquid Product Properties

| | |
|---------------------------------|--|
| Solution Appearance | Water white |
| Freezing Point | 47% K_2CO_3 solution at 3°F (-16.1°C) 40% K_2CO_3 solution at -33°F (-36.1°C) |
| Boiling Point | 47% K_2CO_3 solution at 234°F (112°C) 40% K_2CO_3 solution at 227°F (108°C) |
| Specific Gravity | 1.495 for a 47% K_2CO_3 solution at 70°F (21.1°C) |
| Density | 47% solution = 12.484 lb./gal. at 60°F (15.6°C) |
| Viscosity | 10.4 cps for 47% solution at 68°F (20°C) |
| Alkali Equivalent | 1 lb. 47% solution = 0.320 lb. K_2O |
| Acid Equivalent | 1 lb. 47% solution = 0.248 lb. pure HCl |
| pH, 1% Solution at 72°F (22°C) | Approx. 11.5 |
| pH, 47% Solution at 72°F (22°C) | Approx. 12.6 |

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