## *Chemicals: Potassium Bisulfate - Potassium Sulfate*

(A) **Excellent** = Recommended (B) **Good** = Recommended (C) **Fair** (limited life) (X) **Not Recommended**

| Chemical | Concentration (%) | Temp. °C | Temp. °F | PVC | CPVC | PP | PVDF | TEFLON | VITON | EPDM | NITRILE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Potassium Bisulfate** $KHSO_4$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | B | A | A | A | A | A | B |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Borate** | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | A | A | A | A | A | A | A |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Bromate** $KBrO_3$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | B | B | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Bromide** KBr | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | A | A | A | A | A | A | A |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | B | A | | | |
| **Potassium Chlorate** (Aqueous) $KClO_3$ | | 20 | 68 | A | A | A | A | A | A | A | C |
| | | 40 | 104 | A | A | A | A | A | A | A | |
| | | 60 | 140 | B | A | A | A | A | A | | |
| | | 80 | 176 | | B | B | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Chloride** KCl | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | A | A | A | A | A | A | A |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Chromate** $K_2CrO_4$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | B | B | A | A | A | A | A | A |
| | | 80 | 176 | | B | B | A | A | A | A | B |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | B | A | | | |
| **Potassium Cyanide** KCN | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | B | B | A | A | A | A | B |
| | | 100 | 212 | | | | A | A | B | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Ferricyanide** $K_3[Fe(CN)_6]$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | | A | A | A | A | A | |
| | | 60 | 140 | A | | A | A | A | A | A | |
| | | 80 | 176 | | | A | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Ferrocyanide** $K_4[Fe(CN)_6]$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | | A | A | A | A | A | |
| | | 60 | 140 | A | | A | A | A | A | A | |
| | | 80 | 176 | | | A | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Fluoride** KF | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | | A | A | A | A | A | A |
| | | 60 | 140 | A | | A | A | A | A | A | A |
| | | 80 | 176 | | | A | A | A | A | A | B |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |

| Chemical | Concentration (%) | Temp. °C | Temp. °F | PVC | CPVC | PP | PVDF | TEFLON | VITON | EPDM | NITRILE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Potassium Hydroxide (Caustic Potash)** KOH | 25 | 20 | 68 | A | B | A | A | A | X | A | B |
| | | 40 | 104 | A | B | A | A | A | | A | B |
| | | 60 | 140 | A | B | A | B | A | | A | C |
| | | 80 | 176 | | B | A | C | A | | A | X |
| | | 100 | 212 | | | | X | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Potassium Hypochlorite** KClO | | 20 | 68 | A | A | A | A | A | A | A | B |
| | | 40 | 104 | A | A | A | A | A | A | A | |
| | | 60 | 140 | A | | A | A | A | A | A | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Potassium Iodide** KI | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | A | A | A | A | A | A | B |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Nitrate** $KNO_3$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | | A | A | A | A | A | B |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Perborate** $KBO_3$ | | 20 | 68 | A | A | A | A | A | | | |
| | | 40 | 104 | A | A | A | A | A | | | |
| | | 60 | 140 | A | A | A | A | A | | | |
| | | 80 | 176 | | A | A | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Perchlorate** $KClO_4$ | | 20 | 68 | A | A | A | A | A | | | |
| | | 40 | 104 | A | A | A | A | A | | | |
| | | 60 | 140 | A | A | A | A | A | | | |
| | | 80 | 176 | | B | B | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Permanganate** $KMnO_4$ | 10 | 20 | 68 | A | A | A | A | A | A | A | C |
| | | 40 | 104 | A | A | A | A | A | A | A | |
| | | 60 | 140 | B | A | A | A | A | A | A | |
| | | 80 | 176 | | A | B | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Permanganate** $KMnO_4$ | 25 | 20 | 68 | A | A | A | A | A | A | A | X |
| | | 40 | 104 | A | A | A | A | A | A | A | |
| | | 60 | 140 | B | A | A | A | A | A | A | |
| | | 80 | 176 | | B | B | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Persulfate** $K_2S_2O_8$ | | 20 | 68 | A | A | A | A | A | A | A | X |
| | | 40 | 104 | A | | A | A | A | A | A | |
| | | 60 | 140 | A | | A | A | A | A | A | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Potassium Phosphate** $K_3PO_4$ | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | | A | A | A | A | A | C |
| | | 60 | 140 | C | | A | A | A | A | A | X |
| | | 80 | 176 | | | A | A | A | A | A | |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | | A | | | |
| **Potassium Sulfate** $K_2SO_4$ | Pure | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | A | A | A | A | A | A | A | A |
| | | 80 | 176 | | A | A | A | A | A | B | |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | B | | |

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