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

**Hydrofluorosilicic Acid** - See Fluorosilicic Acid, page 11.

| Chemical | Concentration (%) | Temp. °C | Temp. °F | PVC | CPVC | PP | PVDF | TEFLON | VITON | EPDM | NITRILE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hexane** $CH_3(CH_2)_4CH_3$ | | 20 | 68 | A | A | A | A | A | A | X | A |
| | | 40 | 104 | B | | B | A | A | | | |
| | | 60 | 140 | | | C | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Hexyl Alcohol** $CH_3(CH_2)_5OH$ | Pure | 20 | 68 | A | A | A | A | A | A | B | A |
| | | 40 | 104 | A | | | A | A | A | B | A |
| | | 60 | 140 | B | | | A | A | A | C | B |
| | | 80 | 176 | | | | B | A | A | X | |
| | | 100 | 212 | | | | | A | A | | |
| | | 120 | 248 | | | | | A | B | | |
| **Hydrazine** $H_2N\text{-}NH_2$ | Pure | 20 | 68 | X | X | C | C | A | X | A | A |
| | | 40 | 104 | | | X | C | A | | | |
| | | 60 | 140 | | | | X | A | | | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Hydrobromic** HBr | 20 | 20 | 68 | A | A | A | A | A | A | A | C |
| | | 40 | 104 | A | A | A | A | A | A | A | C |
| | | 60 | 140 | B | B | A | A | A | A | A | X |
| | | 80 | 176 | | B | A | A | A | B | B | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | B | A | | | |
| **Hydrobromic Acid** HBr | 47 | 20 | 68 | A | A | A | A | A | A | A | C |
| | | 40 | 104 | A | A | A | A | A | A | A | X |
| | | 60 | 140 | B | B | A | A | A | | | |
| | | 80 | 176 | | B | A | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | B | A | | | |
| **Hydrochloric Acid** HCl | 25 | 20 | 68 | A | A | A | A | A | A | A | C |
| | | 40 | 104 | A | A | A | A | A | A | A | X |
| | | 60 | 140 | A | A | A | A | A | A | A | |
| | | 80 | 176 | | A | A | A | A | B | X | |
| | | 100 | 212 | | | | A | A | C | | |
| | | 120 | 248 | | | | B | A | | | |
| **Hydrochloric Acid** HCl | * 35 | 20 | 68 | A | A | A | A | A | A | B | C |
| | | 40 | 104 | A | A | A | A | A | B | B | X |
| | | 60 | 140 | B | A | A | A | A | X | X | |
| | | 80 | 176 | | B | B | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | C | A | | | |
| **Hydrochloric Acid** HCl | * 38 | 20 | 68 | A | A | A | A | A | B | C | C |
| | | 40 | 104 | A | A | A | A | A | B | C | X |
| | | 60 | 140 | B | B | A | A | A | X | X | |
| | | 80 | 176 | | B | B | A | A | | | |
| | | 100 | 212 | | | | B | A | | | |
| | | 120 | 248 | | | | C | A | | | |
| **Hydrocyanic Acid** HCN | | 20 | 68 | A | A | A | A | A | A | A | B |
| | | 40 | 104 | A | A | A | A | A | | | |
| | | 60 | 140 | A | A | A | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Hydrofluoric Acid** HF | 10 | 20 | 68 | A | A | A | A | A | A | A | X |
| | | 40 | 104 | A | B | A | A | A | A | A | |
| | | 60 | 140 | C | B | A | A | A | A | A | |
| | | 80 | 176 | | C | A | A | A | A | A | |
| | | 100 | 212 | | | B | A | A | A | | |
| | | 120 | 248 | | | | | | | | |
| **Hydrofluoric Acid** HF | 30 | 20 | 68 | A | A | A | A | A | A | A | X |
| | | 40 | 104 | B | B | A | A | A | A | A | |
| | | 60 | 140 | C | C | A | A | A | A | A | |
| | | 80 | 176 | X | X | B | A | A | B | B | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Hydrofluoric Acid** HF | 40 | 20 | 68 | B | B | A | A | A | A | A | X |
| | | 40 | 104 | C | C | A | A | A | A | A | |
| | | 60 | 140 | X | X | A | A | A | A | B | |
| | | 80 | 176 | | | B | A | A | B | C | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Hydrofluoric Acid** HF | 55 | 20 | 68 | B | B | A | A | A | A | A | X |
| | | 40 | 104 | C | X | A | A | A | A | B | |
| | | 60 | 140 | X | | A | A | A | A | C | |
| | | 80 | 176 | | | B | A | A | B | X | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Hydrogen** $H_2$ | | 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 | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Hydrogen Fluoride** (Anhydrous) HF | | 20 | 68 | | | A | A | A | X | B | X |
| | | 40 | 104 | | | | A | A | | | |
| | | 60 | 140 | | | | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Hydrogen Peroxide** $H_2O_2$ | 20 | 20 | 68 | A | A | A | A | A | A | A | X |
| | | 40 | 104 | A | A | A | A | A | A | B | |
| | | 60 | 140 | B | B | A | A | A | A | B | |
| | | 80 | 176 | | B | B | A | A | A | C | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Hydrogen Peroxide** $H_2O_2$ | 35 | 20 | 68 | A | B | A | A | A | A | B | X |
| | | 40 | 104 | B | C | B | A | A | A | C | |
| | | 60 | 140 | C | X | B | A | A | C | X | |
| | | 80 | 176 | | | C | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Hydrogen Peroxide** $H_2O_2$ | ** 50 | 20 | 68 | B | C | C | A | A | C | X | X |
| | | 40 | 104 | C | X | X | A | A | X | | |
| | | 60 | 140 | | | | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Hydrogen Sulfide Gas** $H_2S$ | Dry | 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 | B | B |
| | | 100 | 212 | | | | A | A | A | | |
| | | 120 | 248 | | | | A | A | | | |
| **Hydrogen Sulfide** (Aqueous) $H_2S$ | | 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 | B | A | A |
| | | 80 | 176 | | A | A | A | A | | A | A |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Hydroiodic Acid** HI | | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | A | A | A | A | A | A | A |
| | | 60 | 140 | | | | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Hydroquinone** $C_6H_4(OH)_2$ | Satu | 20 | 68 | A | | A | A | A | A | A | B |
| | | 40 | 104 | A | | A | A | A | A | | |
| | | 60 | 140 | A | | A | A | A | | | |
| | | 80 | 176 | | | A | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | | A | | | |

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***Hydrochloric Acid:** 20° Baumé = 32%; 23° Baumé (Fuming) = 38% concentration.

****Hydrogen Peroxide:** 35% at 55°C Viton = **"A"**; 40% at 66°C Viton = **"B"**.