## *Chemicals: Diacetone Alcohol - Dimenthyl Ether*

(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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diacetone Alcohol** $(CH_3)_2C(OH)CH_2$ $-COCH_3$ | Pure | 20 | 68 | | | A | A | A | X | A | X |
| | | 40 | 104 | | | B | B | A | | | |
| | | 60 | 140 | | | | B | A | | | |
| | | 80 | 176 | | | | C | A | | | |
| | | 100 | 212 | | | | X | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Dibenzyl Ether** $C_6H_5CH_2O$ $-CH_2C_6H_5$ | Pure | 20 | 68 | | | | A | A | | C | X |
| | | 40 | 104 | | | | B | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Dibutyl Amine** $(C_4H_9)_2NH$ | Pure | 20 | 68 | | | | A | A | | | |
| | | 40 | 104 | | | | C | A | | | |
| | | 60 | 140 | | | | X | A | | | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Dibutyl Ether** $(C_4H_9)_2O$ | Pure | 20 | 68 | X | X | C | A | A | X | X | B |
| | | 40 | 104 | | | | A | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Dibutyl Phthalate** $C_6H_4(COOC_4H_9)_2$ | Pure | 20 | 68 | X | | B | A | A | B | A | X |
| | | 40 | 104 | | | | B | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Dibutyl Sebacate** $H_9C_4OOC(CH_2)_8$ $-COOC_4H_9$ | | 20 | 68 | | | | A | A | C | C | X |
| | | 40 | 104 | | | | B | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Dichloro-acetic Acid** $Cl_2CHCOOH$ | | 20 | 68 | A | | B | A | A | X | C | X |
| | | 40 | 104 | | | | A | A | | | |
| | | 60 | 140 | | | | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Dichloro-benzene** $C_6H_4Cl_2$ | Pure | 20 | 68 | X | | | A | A | B | X | X |
| | | 40 | 104 | | | | A | A | | | |
| | | 60 | 140 | | | | A | A | | | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Dichloro-ethylene** $CH_2=CCl_2$ | | 20 | 68 | X | | | A | A | B | X | X |
| | | 40 | 104 | | | | A | A | | | |
| | | 60 | 140 | | | | A | A | | | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | A | | | |
| **Dichloro-isopropyl Ether** $Cl{\cdot}CH_2{\cdot}\underset{\underset{CH_3}{\vert}}{CH}{\cdot}O{\cdot}\underset{\underset{CH_3}{\vert}}{CH}{\cdot}CH_2{\cdot}Cl$ | Pure | 20 | 68 | | | | A | A | | | |
| | | 40 | 104 | | | | B | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Diethylamine** $(C_2H_5)_2NH$ | Pure | 20 | 68 | X | X | A | B | A | | A | X |
| | | 40 | 104 | | | B | C | A | | | |
| | | 60 | 140 | | | | X | A | | | |
| | | 80 | 176 | | | | | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | | | | |

| Chemical | Concentration (%) | Temp. °C | Temp. °F | PVC | CPVC | PP | PVDF | TEFLON | VITON | EPDM | NITRILE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diethylene-triamine** $H_2N(CH_2CH_2NH)_2H$ | | 20 | 68 | X | X | | A | A | | | |
| | | 40 | 104 | | | | B | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Diethylether** $C_2H_5OC_2H_5$ | Pure | 20 | 68 | X | X | C | A | A | C | C | C |
| | | 40 | 104 | | | X | B | A | | | |
| | | 60 | 140 | | | | C | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Diglycolic Acid** $(HO_2CCH_2)_2O$ | Satu | 20 | 68 | A | A | A | A | A | A | A | A |
| | | 40 | 104 | A | | A | A | A | | | |
| | | 60 | 140 | | | A | A | A | | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | | A | | | |
| | | 120 | 248 | | | | | | | | |
| **Diisobutyl Ketone** $[(CH_3)_2CHCH_2]_2CO$ | Pure | 20 | 68 | X | X | A | A | A | X | X | B |
| | | 40 | 104 | | | | A | A | | | |
| | | 60 | 140 | | | | B | A | | | |
| | | 80 | 176 | | | | X | A | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Diisobutylene** $C_8H_{16}$ | Pure | 20 | 68 | X | X | | A | A | A | X | A |
| | | 40 | 104 | | | | A | A | A | | |
| | | 60 | 140 | | | | A | A | A | | |
| | | 80 | 176 | | | | A | A | | | |
| | | 100 | 212 | | | | A | A | | | |
| | | 120 | 248 | | | | A | A | | | |
| **Diisopropyl Ketone** $[(CH_3)CH]_2CO$ | Pure | 20 | 68 | X | X | | X | A | X | B | X |
| | | 40 | 104 | | | | | | | | |
| | | 60 | 140 | | | | | | | | |
| | | 80 | 176 | | | | | | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Diluent (LIX 84)** | | 20 | 68 | A | | | | | A | | |
| | | 40 | 104 | A | | | | | A | | |
| | | 60 | 140 | | | | | | | | |
| | | 80 | 176 | | | | | | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Dimethyl Acetamide** $CH_3CON(CH_3)_2$ | | 20 | 68 | X | X | X | X | A | | | |
| | | 40 | 104 | | | | | | | | |
| | | 60 | 140 | | | | | | | | |
| | | 80 | 176 | | | | | | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Dimethyl Amine** $(CH_3)_2NH$ | Pure | 20 | 68 | X | X | A | B | A | X | C | X |
| | | 40 | 104 | | | B | C | A | | | |
| | | 60 | 140 | | | | X | A | | | |
| | | 80 | 176 | | | | | | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Dimethyl-aniline** $C_6H_3(CH_3)_2$ $-(NH_2)$ | Pure | 20 | 68 | X | X | | A | | | X | X |
| | | 40 | 104 | | | | B | | | | |
| | | 60 | 140 | | | | C | | | | |
| | | 80 | 176 | | | | X | | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |
| **Dimethyl Ether** $(CH_3)_2O$ | | 20 | 68 | | | | A | A | X | X | B |
| | | 40 | 104 | | | | | | | | |
| | | 60 | 140 | | | | | | | | |
| | | 80 | 176 | | | | | | | | |
| | | 100 | 212 | | | | | | | | |
| | | 120 | 248 | | | | | | | | |