

## Common Solvents and Non-solvents of Polystyrene

Adapted from: Brandrup, J., and E.H. Immergut, eds. 1975. *Polymer Handbook, Second Edition*. New York: John Wiley & Sons, Inc.

### Solvents

(expect swelling or dissolution of PS)

#### Aromatic Hydrocarbons

benzene  
toluene  
xylene  
ethylbenzene

#### Chlorinated aliphatic hydrocarbons

methylene chloride  
chloroform  
carbon tetrachloride

#### Others

pyridine  
acetone  
dioxane  
dimethylformamide  
methyl ethyl ketone  
diisopropyl ketone  
cyclohexanone  
tetrahydrofuran  
n-butyl phthalate  
methyl phthalate  
ethyl phthalate  
tetrahydrofurfuryl alcohol  
ethyl acetate  
butyl acetate  
1-nitro-propane  
carbon disulfide  
tributyl phosphate  
cyclohexane  
methylcyclohexane  
ethylcyclohexane

### Non-solvents

#### Aliphatic hydrocarbons

butane  
pentane  
hexane  
iso-oxane

#### Alcohols

methanol  
ethanol  
propanol

#### Others

water  
phenol  
ether