How to select NMR solvent

Your sample is soluble to CHCl₃

Yes

Your sample is sensitive to trace HCl

Yes

Can you pass CDCl₃ through alumina column?

Yes

CDCl₃

64 yen/mL

No

Polar solvent is acceptable to your sample

No

Your sample is only soluble to water

No

Polar solvent is acceptable to your sample

Yes

D₂O

170 yen/mL

Yes

You are eager to rescue dissolved sample

Yes

CD₃CN

660 yen/mL

No

CD₃OD

920 yen/mL

No

Your sample is soluble to acetone

Yes

acetone-d₆

500 yen/mL

No

No

Your sample is soluble to CH₃CN

No

C₆D₆

620 yen/mL

One measurement = 0.5-0.8 mL

# Chemical shift overlapping is not considered in this chart.
# Do not use D-solvents listed below except for special experiments (very very expensive).

toluene-d₈    CD₂Cl₂    THF-d₇    DMF-d₇
1700 yen/mL   1700 yen/mL   6000 yen/mL   8000 yen/mL

(Prices are cited from Kanto Kagaku Catalog)