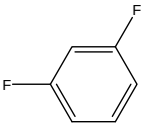
フルオロベンゼン類　Fluorobenzenes

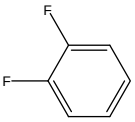
フルオロベンゼン類は製鉄，医薬品合成，農薬合成などに幅広く用いられる物質です．CAPCELL CORE PFP S2.7（2.1 mm i.d. x 150 mm）は位置異性体を含む 5 種のフルオロベンゼン類を完全分離することが出来ました.（圧力:装置とカラムの分を含め最大 31.9 MPa）

Fluorobenzenes are widely used in industry, such as steel manufacturing, and production of medicines and pesticides. CAPCELL CORE PFP S2.7 (2.1 mm i.d. x 150 mm) could baseline separate five kinds of fluorobenzenes, including positional isomers. (Pressure: Max. 31.9 MPa, across the column and instruments)

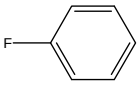
1. *p*-ジフルオロベンゼン (20 μg/mL)
p-Difluorobenzene (M.W. 114.1)



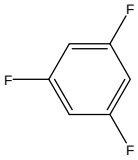
4. *o*-ジフルオロベンゼン (20 μg/mL)
o-Difluorobenzene (M.W. 114.1)



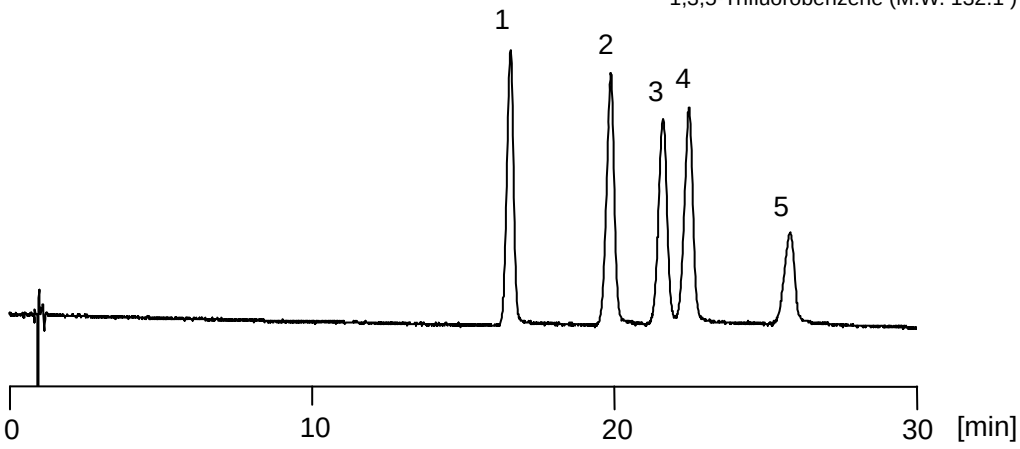
3. *m*-ジフルオロベンゼン (20 μg/mL)
m-Difluorobenzene (M.W. 114.1)



2. フルオロベンゼン (20 μg/mL)
Fluorobenzene (M.W. 96.1)



5. 1,3,5-トリフルオロベンゼン (20 μg/mL)
1,3,5-Trifluorobenzene (M.W. 132.1)



【HPLC Conditions】

Column	: CAPCELL CORE PFP S2.7 ; 2.1 mm i.d. x 150 mm
Mobile phase	: A) H_2O, B) CH_3CN
	B 10 % (0 min) → 15 % (29.5 min) → 10 % (29.6 min) Gradient
Flow rate	: 400 μL/min
Temperature	: 30 ˚C
Detection	: UV 240 nm
Inj. vol.	: 1 μL
Sample dissolved in	: CH_3CN

※ 1 μg/mL = 1 ppm