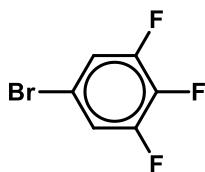
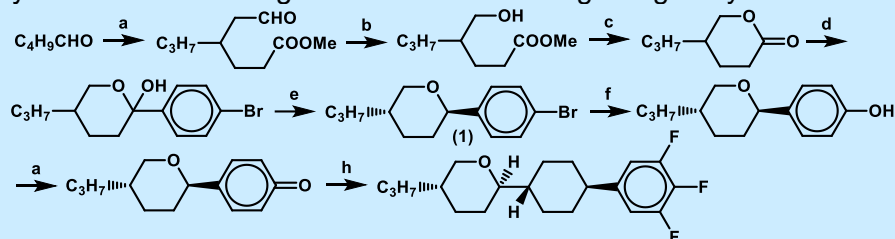


1-Bromo-3,4,5-trifluorobenzene (abb. ; BTFB)



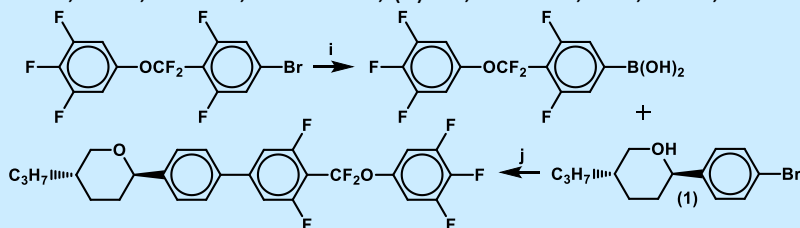
Purity	97%
CAS Number	138526-69-9
Molecular Formula	C ₆ H ₂ BrF ₃
Molecular Weight	210.99

A liquid crystal compound with a tetrahydropyran skeleton and a 3,4,5-trifluorobenzene skeleton has properties such as dielectric anisotropy, skeleton rigidity, good solubility, and rotational freedom, and is excellent in high-speed responsive displays realized. A synthetic route starting from δ -valerolactone gives good yields.



Application

h; (1) BTFB, (CH₃)₂CHMgCl, THF, RT*1hr, then add 12, RT*1hr, (2) CH₃SO₂Cl, Et₃N, CH₂Cl₂, 0-RT*18hr, (3) H₂, 5% Pd-C, THF, 1atm, RT



i; N₂H₄·H₂O, Na₃BO₃·8H₂O, cat. PdCl₂(PPh₃)₂, H₂O, THF, reflux*18hr
j; (1) iPrMgCl, THF, -5°C*1hr, (2) B(OCH₃)₃, THF, -5°C*1hr, (3) 16% HCl, -5°C*0.5hr

Eur. J. Org. Chem. 2008, p3479-3487

Properties:

Appearance Liquid
Boiling point, °C 47-49/60torr

Packing: -

UN, PG: -