# Recipe 2.1.1. Building molecule expression

## **Table of contents**

1 Problem	2
2 Solution	2
3 Discussion	
4 See Also	

#### 1. Problem

You want to create new molecules from expression.

#### 2. Solution

ChemicalFacade provide a way to create a molecule from expression of others molecule or formulae:

```
import org.expasy.jpl.core.mol.chem.ChemicalFacade;
Molecule molecule =
        ChemicalFacade.newMolecularExpressionBuilder()
                .plus("CH3").plus("NH4").build();
// CH7N
System.out.println(molecule);
Molecule otherMolecule =
       ChemicalFacade.newMolecularExpressionBuilder()
                .plus(molecule).plus("NH4").build();
// CH11N2
System.out.println(otherMolecule);
Molecule sameFirstMolecule =
        ChemicalFacade.newMolecularExpressionBuilder()
                .plus(otherMolecule).minus("NH4").build();
// CH7N
System.out.println(sameFirstMolecule);
Assert.assertTrue(molecule.equals(sameFirstMolecule));
```

### 3. Discussion

#### 4. See Also