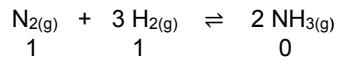




EQUILIBRIUM QUANTITIES 2

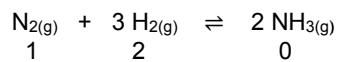
1) Work out the actual number of moles of each species are present at equilibrium.

a)
initial moles
change in moles
equilibrium moles



0.8

b)
initial moles
change in moles
equilibrium moles



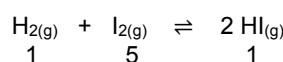
1.1

c)
initial moles
change in moles
equilibrium moles



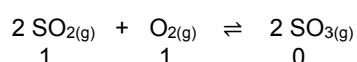
0.6

d)
initial moles
change in moles
equilibrium moles



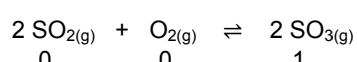
1.4

e)
initial moles
change in moles
equilibrium moles



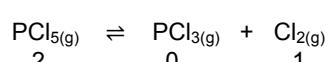
0.4

f)
initial moles
change in moles
equilibrium moles



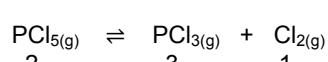
0.3

g)
initial moles
change in moles
equilibrium moles



1.4

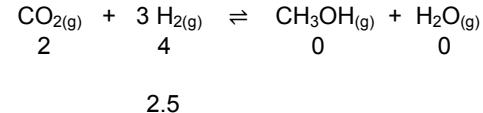
h)
initial moles
change in moles
equilibrium moles



1.3

g)

initial moles
change in moles
equilibrium moles

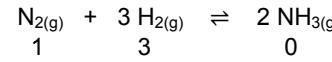


2.5

2) Write expressions to show how many moles of each species are present at equilibrium.

a)

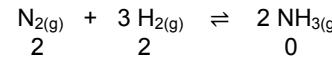
initial moles
change in moles
equilibrium moles



1-x

b)

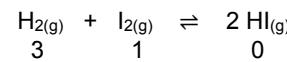
initial moles
change in moles
equilibrium moles



2x

c)

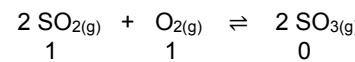
initial moles
change in moles
equilibrium moles



1-x

d)

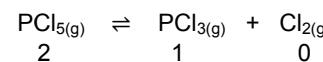
initial moles
change in moles
equilibrium moles



1-x

e)

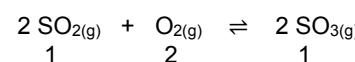
initial moles
change in moles
equilibrium moles



x

f)

initial moles
change in moles
equilibrium moles



1-2x