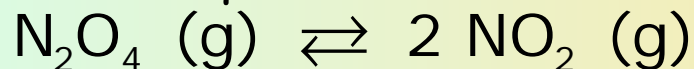
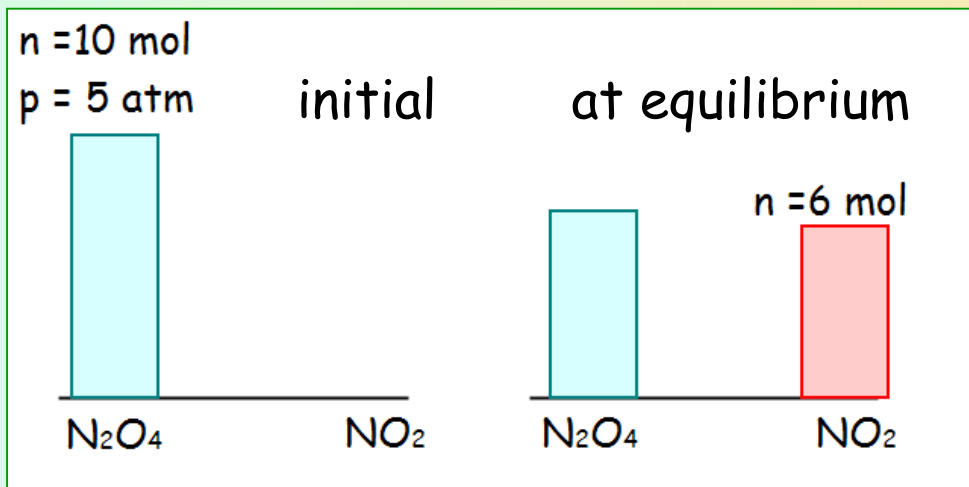


Equilibrium: conceptual questions

Consider this chemical equation and fill in the blanks



$$V = 4 \text{ L}$$



α	0.30
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		N_2O_4	NO_2	n_{tot}
initial	n_0	10	0	10
change	Δn	-3	6	3
at equil.	n	7	6	13

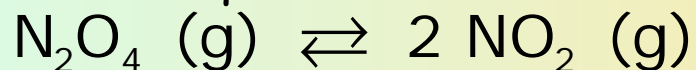
K_c	1.29
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		N_2O_4	NO_2	P_{tot}
initial	p_0	5	0	5
change	Δp	-1.5	3	1.5
at equil.	p	3.5	3	6.5

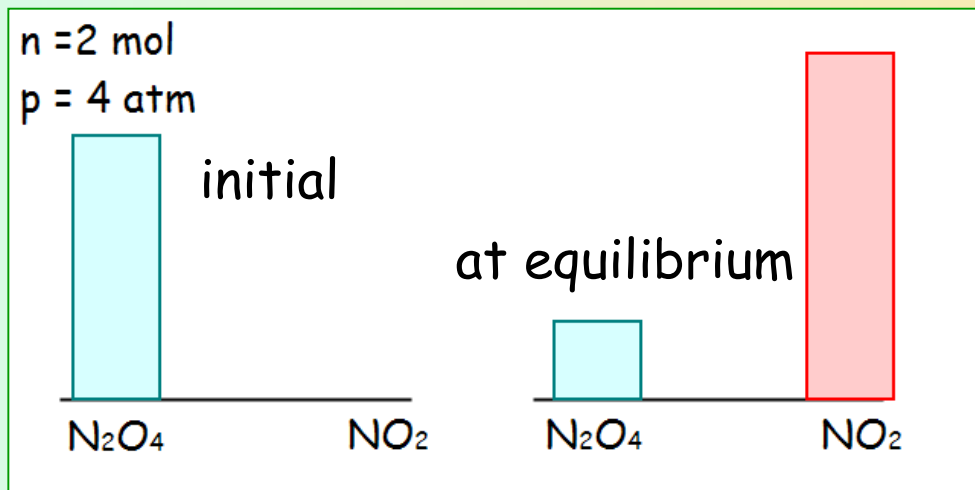
K_p	2.57
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Equilibrium: conceptual questions

Consider this chemical equation and fill in the blanks



$$V = 4 \text{ L}$$



α	0.60
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		N_2O_4	NO_2	n_{tot}
initial	n_0	2	0	2
change	Δn	-1.2	2.4	1.2
at equil.	n	0.8	2.4	3.2

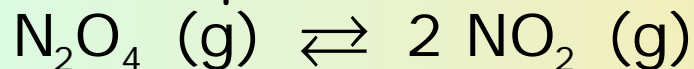
K_c	1.80
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		N_2O_4	NO_2	P_{tot}
initial	p_0	4	0	4
change	Δp	-2.4	4.8	2.4
at equil.	p	1.6	4.8	6.4

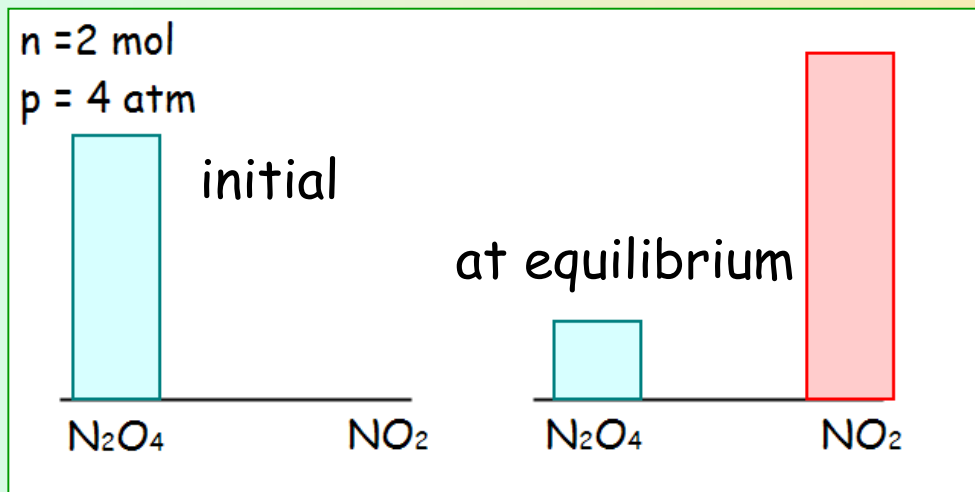
K_p	14.40
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Equilibrium: conceptual questions

Consider this chemical equation and fill in the blanks



$$V = 4 \text{ L}$$



α	0.80
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		N_2O_4	NO_2	n_{tot}
initial	n_0	2	0	2
change	Δn	-1.6	3.2	1.6
at equil.	n	0.4	3.2	3.6

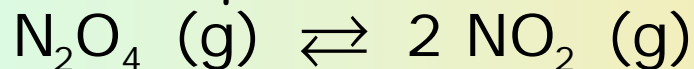
K_c	6.40
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		N_2O_4	NO_2	P_{tot}
initial	p_0	4	0	4
change	Δp	-3.2	6.4	3.2
at equil.	p	0.8	6.4	7.2

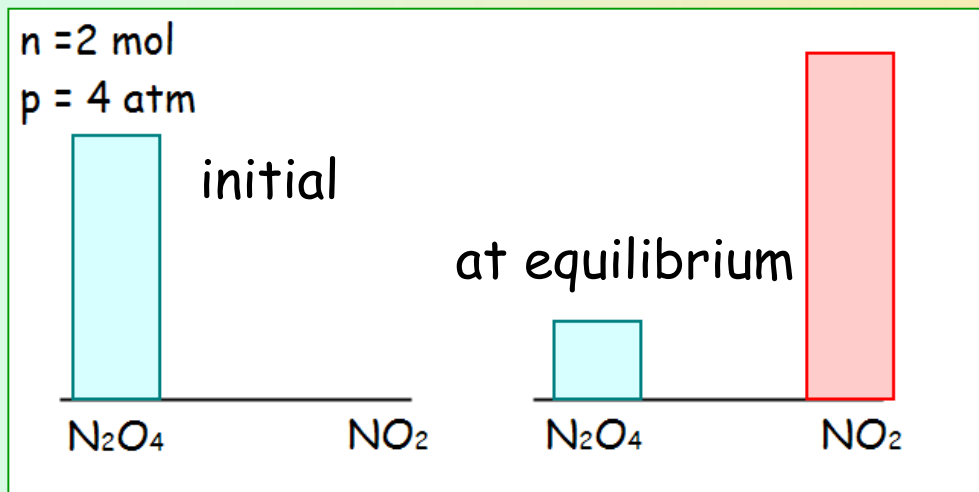
K_p	51.20
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Equilibrium: conceptual questions

Consider this chemical equation and fill in the blanks



$$V = 4 \text{ L}$$



α	0.80
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		N_2O_4	NO_2	n_{tot}
initial	n_0	2	0	2
change	Δn	-1.6	3.2	1.6
at equil.	n	0.4	3.2	3.6

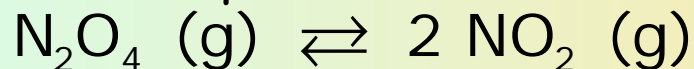
K_c	6.40
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		N_2O_4	NO_2	P_{tot}
initial	p_0	4	0	4
change	Δp	-3.2	6.4	3.2
at equil.	p	0.8	6.4	7.2

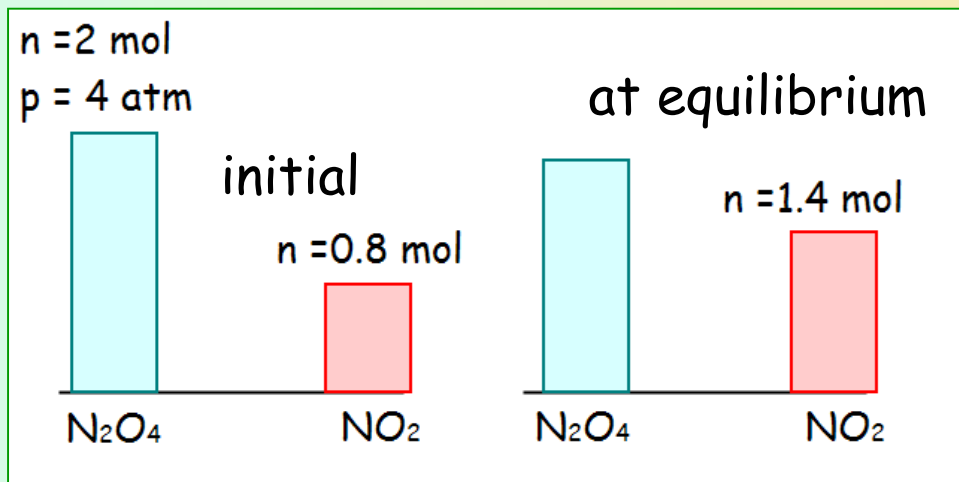
K_p	51.20
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Equilibrium: conceptual questions

Consider this chemical equation and fill in the blanks



$$V = 4 \text{ L}$$



$$\alpha = 0.15$$

		N_2O_4	NO_2	n_{tot}
initial	n_0	2	0.8	2.8
change	Δn	-0.3	0.6	0.3
at equil.	n	1.7	1.4	3.1

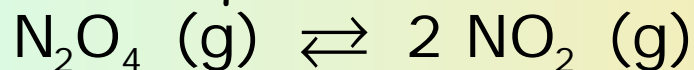
$$K_c = 0.29$$

		N_2O_4	NO_2	P_{tot}
initial	p_0	4	1.6	5.6
change	Δp	-0.6	1.2	0.6
at equil.	p	3.4	2.8	6.2

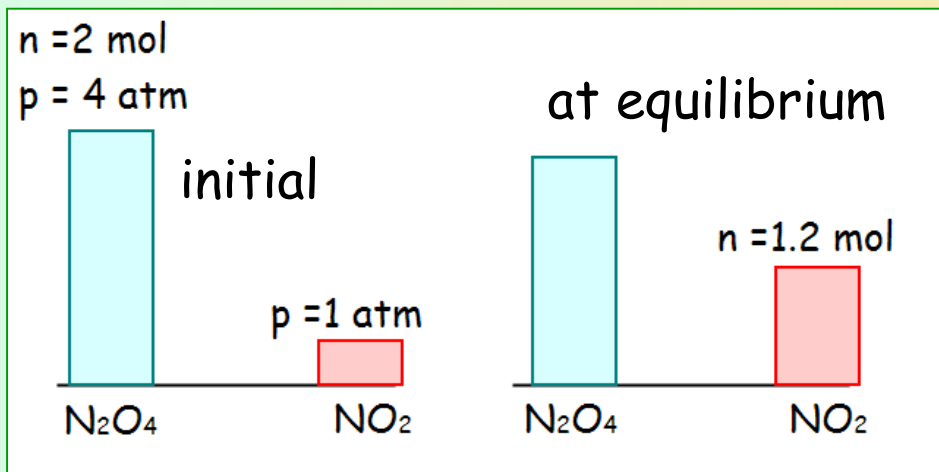
$$K_p = 2.31$$

Equilibrium: conceptual questions

Consider this chemical equation and fill in the blanks



$$V = 4 \text{ L}$$



α	0.18
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		N_2O_4	NO_2	n_{tot}
initial	n_0	2	0.5	2.5
change	Δn	-0.35	0.7	0.35
at equil.	n	1.65	1.2	2.85

K_c	0.22
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		N_2O_4	NO_2	P_{tot}
initial	p_0	4	1	5
change	Δp	-0.7	1.4	0.7
at equil.	p	3.3	2.4	5.7

K_p	1.75
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