

$$K_c = \frac{0.6 + x}{(0.2 - x)(0.3 - x)} = 30$$

$$0.6 + x = 30(0.06 - 0.2x - 0.3x + x^2)$$

$$0.6 + x = 1.8 - 15x + 30x^2$$

$$30x^2 - 16x + 1.2 = 0$$

$$x_{1,2} = \frac{16 \pm \sqrt{256 - 144}}{60} = \frac{16 \pm 10.6}{60}$$

$$x_1 = 0.44 \quad x_2 = 0.09$$

$$[SO_2] = 0.2 - 0.09 = 0.011 \text{ mol/l}$$

$$[Cl_2] = 0.3 - 0.09 = 0.021 \text{ mol/l}$$

$$[SO_2 Cl_2] = 0.6 - 0.09 = 0.69 \text{ mol/l}$$

3) Per il seguente equilibrio in fase omogenea la K_c vale 5.06:



Sapendo che ad un certo stadio del processo le concentrazioni istantanee di CO, H₂O, CO₂, e H₂ sono rispettivamente 0.1 M, 0.2 M, 1 M e 0.5M, stabilire se la reazione è all'equilibrio e, in caso contrario, dire in che senso avverrà e calcolare la composizione all'equilibrio (si consideri il volume di 1 litro).

	CO	+	H ₂ O	⇌	CO ₂	+	H ₂
inizio	0.1		0.2		1		0.5

$$Q = \frac{[CO_2][H_2]}{[CO][H_2O]} = \frac{1 \cdot 0.5}{0.1 \cdot 0.2} = 25 \quad Q > K_c \quad \text{quindi la reazione è spostata verso sinistra}$$



	CO	+	H ₂ O	⇌	CO ₂	+	H ₂
inizio	0.1		0.2		1		0.5
equilibrio	(0.1+x)		(0.2+x)		(1-x)		(0.5-x)

$$K_c = \frac{[CO_2][H_2]}{[CO][H_2O]}$$

$$5.06 = \frac{(1-x)(0.5-x)}{(0.1+x)(0.2+x)} \quad 5.06 = \frac{0.5-x-0.5x+x^2}{0.02+0.1x+0.2x+x^2} \quad 5.06 = \frac{0.5-1.5x+x^2}{0.02+0.3x+x^2}$$

Equilibrio Chimico Esercizi Svolti Chimicamo Org

Gianfrancesco Berchiesi, Carlo Santini

Equilibrio Chimico Esercizi Svolti Chemicamo Org:

Esercizi svolti sull'equilibrio chimico Alessandro Ceriotti, Francesca Porta, 2007 **Chimica generale: esercizi svolti** Stefania Lamponi, **Esercizi svolti. Chimica generale. Principi ed applicazioni moderne**, 2015 **Esercizi di chimica** Silvia Ronchetti, Barbara Onida, Alessandro Delmastro, 2019-11-01 Questo nuovo libro di esercizi di Chimica vuole essere un utile strumento didattico indirizzato in modo particolare alla preparazione dell'esame scritto dei corsi di Chimica del primo anno di Ingegneria Il testo organizzato in sette capitoli che riportano esercizi di stechiometria risolti attraverso procedimenti commentati e accompagnati da note All'inizio di ciascuno lo studente troverà alcuni brevi richiami teorici il cui taglio si riferisce espressamente ai corsi di Chimica per Ingegneria Il percorso didattico comincia affrontando sinteticamente il bilanciamento delle reazioni chimiche per proseguire con i rapporti ponderali tra i reagenti e i prodotti Seguono esercizi sullo stato gassoso leggi dei gas e miscele reattive e sulle soluzioni concentrazione e proprietà colligative Il quinto capitolo dedicato alla termochimica con particolare attenzione al calcolo del calore associato alla trasformazione chimica e il sesto all'equilibrio chimico omogeneo ed eterogeneo in fase gas e in soluzione acquosa L'ultimo capitolo di elettrochimica riporta esercizi su sistemi voltaici ed elettrolitici Lo studente potrà infine verificare le conoscenze acquisite attraverso gli esercizi di autovalutazione proposti al termine di ogni capitolo Tutti gli esercizi si basano sui concetti e sulle leggi principali della Chimica Generale e Inorganica Nella prospettiva in cui gli aspetti quantitativi affrontati attraverso il calcolo siano imprescindibili per la conoscenza della Chimica di base il testo si propone come parte integrante degli strumenti didattici forniti durante il corso Chimica esercizi svolti: moli, composti, formule Alessio Mangoni, 2017 Esercizi di chimica Cosimo F. Nobile, Piero Mastrorilli, 1999 **Esercizi svolti di chimica fisica** Gianfrancesco Berchiesi, Carlo Santini, 1998

Spontaneamente. Esercizi risolti di chimica fisica Pierandrea Lo Nostro, Niccolò Peruzzi, 2013 *Esercizi svolti di chimica* Donato Vanni, Sandro Vanni, 1987 **Chimica. Esercizi** Valeria Balboni, 2010 Chimica generale Jerome L. Rosenberg, 1977 Come risolvere i problemi di chimica. 400 esercizi svolti e 150 esercizi da svolgere Franco Ugozzoli, 2013

Esercizi di chimica organica Sandro Cacchi, Francesco Nicotra, 1998 **Chimica** Fulvio Cacace, Mario Schiavello, 1973

Formule, moli e reazioni Alessio Mangoni, 2025-05-27 Questo testo didattico completo e rigoroso dedicato allo studio e all'applicazione dei fondamenti della chimica quantitativa Attraverso sessanta esercizi svolti con chiarezza e precisione affronta temi essenziali quali massa molare e peso molecolare concetto di mole numero di Avogadro calcolo di atomi e molecole in quantità note composizione percentuale dei composti determinazione delle formule minima e molecolare bilanciamento di equazioni chimiche Si propone come uno strumento efficace per studenti di chimica e per chiunque desideri approfondire le basi della disciplina attraverso un approccio pratico e metodico fornendo solide competenze indispensabili per il proseguimento degli studi scientifici Chimica generale e inorganica. Indirizzo chimico. 831 esercizi commentati e risolti Attilio Converti, 1994

The Top Books of the Year Equilibrio Chimico Esercizi Svolti Chimicamo Org The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Equilibrio Chimico Esercizi Svolti Chimicamo Org : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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