

The curve in Figure 16.11 of the text shows how the vibrational heat capacity depends on temperature. Note that even when the temperature is only slightly above the vibrational temperature, the heat capacity is close to its equipartition value.

The total heat capacity of a molecular substance is the sum of each contribution (Figure 16.12 of the text). When equipartition is valid (when the temperature is well above the characteristic temperature of the mode $T \gg \theta_M$) we can estimate the heat capacity by counting the numbers of modes that are active. In gases, all three translational modes are always active and contribute $\frac{3}{2}R$ to the molar heat capacity. If we denote the number of active rotational modes by ν_R^\ddagger (so for most molecules at normal temperatures $\nu_R^\ddagger = 2$ for linear molecules, and 3 for non-linear molecules), then

$$C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \dots$$

The equipartition value $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R$ is reached when the temperature is high enough so that $T \gg \theta_M$ for all the modes. However, if the temperature is lower, some of the modes are not fully active and the heat capacity is lower than the equipartition value. The curve in Figure 16.11 of the text shows how the vibrational heat capacity depends on temperature. Note that even when the temperature is only slightly above the vibrational temperature, the heat capacity is close to its equipartition value.

Solutions to exercises

16.1 The vibrational heat capacity is given by $C_{V,m} = \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T}$. When the temperature is high, $T \gg \theta_i$, the heat capacity is close to its equipartition value.

$$C_{V,m} = \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T} \approx \frac{R}{2} \sum_{i=1}^{\nu} 1 = \frac{\nu R}{2}$$

At low temperatures, $T \ll \theta_i$, the heat capacity is close to zero.

$$C_{V,m} = \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T} \approx \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T} = \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T}$$

16.2 The vibrational heat capacity is

$$C_{V,m} = \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T} = \frac{R}{2} \sum_{i=1}^{\nu} \frac{\theta_i}{T} e^{-\theta_i/T}$$

16.3 $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \dots$

At high temperatures, $T \gg \theta_M$,

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Xiaolong Qi



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web plats principaux croquettes de jambon croquettes de poulet panées 35 recettes à l asiatique comme au resto poulet kung pao 25 recettes pour cuisiner le boeuf haché

100 recettes pour tous les jours cuisine actuelle - Nov 03 2022

web aug 30 2018 pour vous inspirer piochez dans notre top 100 des recettes faciles à faire pour tous les jours pour garder votre bonne humeur toute la semaine profitez du week end pour réfléchir à vos futurs dîners et surtout acheter les ingrédients nécessaires

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web mar 2 2023 on adore tous les bons plats mijotés pendant des heures les cuissons longues bref les plats préparés avec amour et patience toutefois vous n avez sûrement pas le temps de votre grand mère qui restait la journée en cuisine

100 recettes plats tout en un hachette fr - Jul 11 2023

web bref des recettes ou tout cuit ensemble avec comme seul matériel ou presque une cocotte un wok ou une poêle des sommaires thématiques illustrés des listes d ingrédients accompagnés de qr code à flasher pour faciliter vos courses

plats tout en un je cuisine - Oct 14 2023

web plats tout en un pizza alfredo au brie dans un poêlon 20 recettes d automne à faire sur la plaque cuisses de poulet croustillantes moutarde et thym poêlée de poulet et courge poêlée de saumon sauce crémeuse au pesto de tomates séchées hauts de cuisses de poulet au sésame sur la plaque buddha bowl déesse verte assiettes de fondue chinoise

jamie oliver one jamie oliver one tout dans un seul - Feb 06 2023

web 1 seul plat 8 ingrédients max par recette et plus de 100 recettes par le chef jamie oliver plus de 52 000 ex vendus de son livre en 15 minutes découvrez le nouveau livre de jamie oliver grâce auquel vous aller pouvoir cuisiner tous vos repas dans un seul et même récipient pour réaliser l une des 100 recettes de ce livre vous

les recettes de Noël tout en un de jamie apple tv fr - Jun 29 2022

web dec 6 2022 les recettes de Noël tout en un de jamie donne le coup d envoi de Noël avec une série de plats délicieux qui nous accompagneront tout au long de la saison des fêtes du canard croustillant aux nouilles en passant par les côtes de bœuf la tarte filo végétarienne et le dessert décadent il propose des plats simples et faciles

dix délicieux plats tout en un poulet ca - Jun 10 2023

web dix délicieux plats tout en un gagner du temps est une bonne addition à n importe quelle routine particulièrement en ce qui concerne la cuisine avec ces recettes simples tout en un on peut réduire le temps de nettoyage de moitié et gagner du temps pour préparer le repas sans toutefois lésiner sur sa saveur recettes

recettes de plats uniques la sélection de 750g - May 29 2022

web plats uniques plats uniques pour un repas réconfortant et équilibré mais aussi convivial rien de mieux que les plats complets les plats qui mélangent protéines féculents et légumes permettent en effet de rassasier rapidement les estomacs les plus exigeants le couscous les lasagnes la paëlla ou le hachis parmentier sont des

les 100 recettes préférées des français cuisine az - Oct 02 2022

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hors série cuisine madame figaro 100 recettes pour passer un - May 09 2023

web nov 7 2022 on va le dévorer et pour cause le nouveau hors série cuisine de madame figaro est généreux avec 100 recettes pour le quotidien et les fêtes des rencontres avec les chefs darroze

100 idées de plats pour recevoir nos meilleures recettes - Dec 04 2022

web mar 14 2023 piochez parmi nos 100 idées de plats pour recevoir des classiques revisités on peut ainsi miser sur les viandes et poissons rôtis cela va du poulet familial au saumon en croûte en passant par le filet mignon les accompagnements et les sauces permettent de nombreuses variations

recettes faciles de plats principaux nos meilleures recettes ricardo - Mar 07 2023

web des recettes originales savoureuses et nutritives à servir en plat principal saumon porc poulet plats végétariens il y en a pour tous les goûts