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IGCSE A* MODEL ANSWER

0620 CHEMISTRY

May/June 2024

Paper 42



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(a) The symbol equation for the reaction can be represented as shown in Fig. 3.1.

Fig. 3.1

Table 3.1 shows some bond energies.

bond	N-H	N-N
bond energy in kJ/mol	435	165

Use the bond energies in Table 3.1 and ΔH to calculate the bond energy of an **N-O bond** in kJ/mol.

Use the following steps.

- Calculate the energy needed to break bonds in the reactants.

$$(4 \times 435) + 1(463)$$

$$4 \times 435 + 1(463)$$

$$2150 \text{ kJ}$$
- Calculate the energy released when bonds form in the products.

$$\text{bond broken} - \text{bond formed} = -90$$

$$2150 - x = -90$$

$$x = 2150 + 90$$

$$x = 2240 \text{ kJ}$$
- Calculate the energy of **an N-O bond**.

$$6 \times (\text{N-O}) = 2240$$

$$\text{N-O} = \frac{2240}{6}$$

$$373 \text{ kJ/mol}$$

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IAF92-0561 - IAF92-0620 ,1992 *Impact Evaluation using the Translational Science Benefits Model Framework in the National Center for Advancing Translational Science Clinical and Translational Science Award Program* Pamela Davidson,Joe Hunt,Douglas Luke,Anna La Manna,2025-11-10 Knowledge translation is a critical activity that helps transform research results into new practices and policies that benefit health and society Similar to other countries the US has initiated a translational science research program in clinical research and public health In the US the National Institutes of Health NIH and the National Center for Advancing Translational Science NCATS have addressed this challenge through the Clinical and Translational Science Award CTSA Program The charge of the CTSA Program is to transform the organization and infrastructure of the academic research enterprise to facilitate the movement of discoveries from clinical science to the bedside and community Documenting the results of these efforts is a necessary component to assess outcomes health and social impacts and support continuous improvement In the CTSA program the 60 CTSA hubs primarily located at academic health sciences research institutes across the nation are just starting to systematically measure and evaluate the impacts of their activities One example of tracking and assessing impact is the Translational Science Benefits Model TSBM introduced in 2018 which is one of the first frameworks for standardized documentation and dissemination of data on outcomes and impacts of translational science and translational research Additionally this Research Topic will explore and compare models and measurement tools used to assess the impact of translational science research internationally This Research Topic will highlight the use of the Translational Science Benefits Model TSBM and other impact evaluation models applied by investigators across a wide spectrum of medical and public health areas including CTSA hubs community international partners and others Although translational science is still in its infancy much work is being conducted nationally and internationally to integrate impact evaluation on medical and public health practice the economy and health policy In terms of a prevention orientation the TSBM can be used to track program development implementation and impacts on preventing and addressing disease The TSBM framework is also useful for changing the culture of academic research settings to place more value on health and social impacts as well as providing training opportunities for early career investigators on how to design for impact at the beginning of programmatic research The TSBM framework has been successfully deployed within the context of the CTSA Program Sharing successful applications of the TSBM across a wider range of research dissemination and implementation is needed to fully understand its strengths and limitations to refine and improve it further and to study its application in a variety of contexts Hence this model has the potential to become a standard for systematic comparable reporting of translational science impact on health and societal benefits We aim to identify similar impact models deployed within international research settings The scope of this Research Topic includes advances in data collection

methodology analysis and results from the application of the TSBM in the CTSA Program as well as with community and international partners Specific themes might include but are not limited to Development and use of quantitative metrics and qualitative measures using the TSBM TSBM as an educational intervention to train junior investigators on impact in translational science Longitudinal evaluation to show potential and demonstrated impact in specific research areas e g software development public health policy change Integrating social determinants of health disparities and equity in impact evaluation Application of TSBM results to improve operations and translational science in core areas of CTSA hubs TSBM is used to deliver new programs applications and community engagement to build cases in the 4 domains Examples of TSBM used to track research findings into public health practice Examples of international application of the TSBM and other impact models

Sjögren's Syndrome: Pathogenicity, Novel targets and Antigens. Kristi A. Koelsch, Alan Baer, Arjan Vissink, 2022-03-09 Dr Baer is the site PI for a clinical trial investigating treatments related to Sjogren s Syndrome in conjunction with Viela Bio The other Topic Editors declare no competing interests with relation to the topic theme

Milks Mean More: The Role of Milk in Nutrition, Digestion and Metabolism Across the Lifespan Nicole Clemence Roy, David A. Sela, Sagar K. Thakkar, Warren Charles McNabb, 2022-08-04

Specialized Metabolites from Medicinal Plants: the Structural Identification, Biological Activity and Biosynthesis Pathways Zhixing Qing, Chun-Tao Che, Hongjie Zhang, Chunpeng Wan, Zhou Yuan, 2024-06-11 Morphine extracted isolated from the opium poppy was the first plant derived natural product which was first reported in 1806 and marked as the beginning of plant metabolites research In the following 200 years many specific metabolites with significant bio activity such as quinine artemisinin and paclitaxel were discovered in plant derived medicines and have been used for treating human diseases The extracts of plants or their metabolites have contributed significantly to human health particularly in the treatment of chronic diseases such as diabetes hypertension and obesity Nowadays medicinal plants and their metabolites are increasingly favored by researchers and pharmaceutical companies to be developed as new dietary supplements and pharmaceuticals Therefore screening and identification of novel active metabolites or lead compounds from plant derived medicines for human disease treatment have become a popular research area

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