Past NCEA exam questions on shapes of molecules (level 3)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2022** | **2021** | **2020** | **2019** | **2018** | **2017** | **2016** | **2015** | **2014** | **2013** | **2012** | **2011** | **2010** | **2009** |
| BrCl5 | **** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SeF4 |  | **** |  |  |  |  |  |  |  |  |  |  |  |  |
| ClF4- |  | **** |  |  |  |  |  |  |  |  |  |  |  |  |
| SF3- |  |  |  | **** |  |  |  |  |  |  |  |  |  |  |
| ClF5 |  |  |  | **** |  |  |  |  |  |  |  |  |  |  |
| I3- |  |  |  |  |  | **** |  |  |  |  |  |  |  |  |
| SiF62– |  |  |  |  |  |  |  |  | **** |  |  |  |  |  |
| **PCl6-** |  |  | **** |  |  |  |  |  |  | **** |  |  |  |  |
| **[ICl2]-** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **IF5** |  |  |  |  |  | **** |  |  |  |  |  | **** |  |  |
| **PCl3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PCl5** |  |  |  |  |  |  |  |  |  |  |  | **** |  |  |
| **SF6** |  |  |  |  |  |  |  | **** |  |  | **** |  |  |  |
| **SF4** |  |  |  | **** |  |  |  |  |  |  | **** |  | **** | **** |
| **ClF3** |  |  |  |  |  |  | **** |  |  |  | **** |  |  |  |
| **AsF5** |  |  |  |  | **** |  |  | **** |  |  | **** |  |  |  |
| **IF3** |  |  |  |  |  |  |  |  |  |  | **** |  |  |  |
| **NF3** |  |  |  |  |  |  |  |  |  |  | **** |  |  |  |
| **XeF4** |  |  |  |  | **** |  |  |  |  |  |  |  | **** |  |
| **BrF3** | **** |  | **** |  |  |  |  |  |  | **** |  |  |  | **** |
| **BrF4-** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BrF5** |  |  |  |  | **** |  |  |  |  |  |  |  |  |  |
| **AsF3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BF3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **ICl4-** |  |  |  |  |  |  | **** |  |  |  |  |  |  |  |

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