

Short N··N and CH··N contacts in the ambient and high-pressure polymorphs of a high-nitrogen-content compound

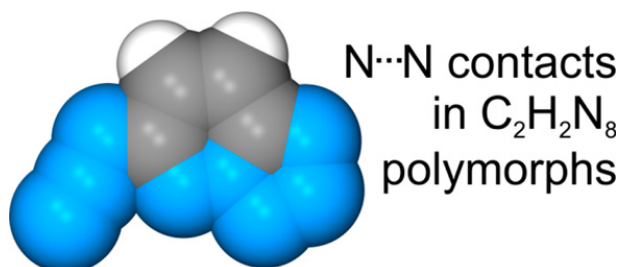
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The compression of high-nitrogen-content compound 6-azido-1,2,3,4-tetrazolo[1,5-*b*]pyridazine, (C₄H₂N₈), was studied *in situ* in a diamond-anvil cell by single-crystal X-ray diffraction.[1] The compression of ambient-pressure phase α is monotonic to 2.5 GPa at least, and high-pressure isochoric recrystallizations yield phase α , too. A new polymorph β could also be recrystallized from the low-concentration acetone

solution, at high pressure below 0.5 GPa and temperature lower than 320 K. However, above 0.5 GPa again only the ambient-pressure form α was obtained. Both polymorphs are built of the azide-tetrazole tautomer, and intermolecular CH··N and N··N interactions are similar, but the molecules aggregate into planar sheets in phase α and into a three-dimensional network in phase β . Polymorph β can be stored for a few years in an open vial in ambient conditions with no signs of changes.

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[1] A. Olejniczak, A. Katrusiak, M. Podsiadło, A. Katrusiak, *Cryst. Growth Des.* 2019, **19**, 1832-1838.