

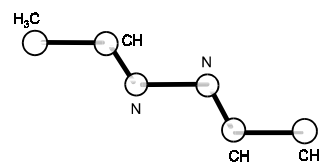
1729
ED

C₄H₈N₂

(*E,E*)-Acetaldehyde ethylidenehydrazone
Acetaldehyde azine
1,1'-Azinobisethane

C_{2h} (skeleton) (*anti*)
C₂ (skeleton) (*gauche*)
H₃C-CH=N-N=CH-CH₃

r_a	\AA^a	θ_a	deg^a
N-N	1.437(13)	N-N=C	110.4(9)
N=C	1.277(3)	N=C-C	121.4(10)
C-C	1.486(8)	N=C-H	120.4(24)
C-H(average)	1.068(4)	C-C-H	105.9(15)



anti

The listed parameters refer to a model with 90% *anti* and 10% *gauche* forms.
The twisting motion about the N-N bond is a large-amplitude motion.
The nozzle was at room temperature.

^a) Estimated total errors.

Hargittai, I., Schultz, G., Naumov, V.A., Kitaev, Yu.P.: Acta Chim. Acad. Sci. Hung. **90** (1976) 165.