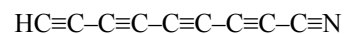


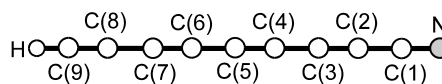
## Structure Data of Free Polyatomic Molecules

 865  
MW

 $\text{C}_9\text{HN}$ 
**1-Cyano-1,3,5,7-octatetrayne**  
2,4,6,8-Nonatetraynenitrile

 $\text{C}_{\infty\text{v}}$ 


$r_0$	$\text{\AA}^{\text{a})}$
H-C(9)	1.057(1)
C(8)≡C(9)	1.211(1)
C(7)-C(8)	1.360(1)
C(6)≡C(7)	1.217(2)
C(5)-C(6)	1.350(4)
C(4)≡C(5)	1.229(6)
C(3)-C(4)	1.349(4)
C(2)≡C(3)	1.217(2)
C(1)-C(2)	1.366(1)
C≡N	1.161(1)


<sup>a)</sup> Estimated standard errors.

 McCarthy, M.C., Levine, E.S., Apponi, A.J., Thaddeus, P.: J. Mol. Spectrosc. **203** (2000) 75.