

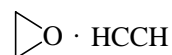
1655
MW

C₄H₆O

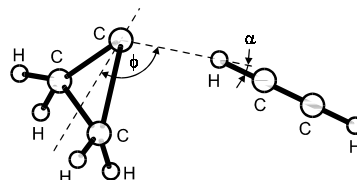
Oxirane – acetylene (1/1)
(weakly bound complex)

C_s
(effective symmetry class)

r_0	Å	θ_0	deg
O...H	2.40(2)	$180 - \alpha$	150.0(6)
		ϕ	89.3(14)



Acetylene acts as a proton donor in forming a hydrogen bond to the oxygen atom of oxirane. A weak secondary interaction between the CH₂ groups of oxirane and the acetylene π -bond causes significant nonlinearity of the primary hydrogen bond.



Legon, A.C.: Chem. Phys. Lett. **247** (1995) 24.