

CH₂

1972

CHI₂

~~CHI₂~~

LiI

Cl₄

(Li)

(Li, K, CN, Cl₄)

132702e Matrix infrared spectra and bonding in the di- and triiodomethyl radicals. Smith, David W.; Andrews, Lester (Chem. Dep., Univ. Virginia, Charlottesville, Va.). *J. Phys. Chem.* 1972, 76(19), 2718-26 (Eng). The codeposition of either CHI₃ or Cl₄ at high diln. in Ar with ⁶Li or ⁷Li produced new ir absorptions which are attributed to LiI and the CHI₂ or Cl₄ free radicals, resp. The identity of the CHI₂ radical is confirmed by the reactions of CDI₃ with Li and CHI₃ with Na atoms. Assignments are made to the antisymmetric HCl valence angle bend and to the antisymmetric C-I stretch of CHI₂. The pyrolysis of Cl₄ also produced Cl₃; an assignment is made to the anti-symmetric C-I stretch. The high values of $F_r - F_{rr}$ in CHI₂ (2.54 ± 0.03 mdyne/Å) and Cl₃ (2.13 mdyne/Å) indicate considerable π -bonding in the CHI₂ and Cl₃ free radicals.

c.a. 1972, 77.20

CH₃₂

1972

Smith D.W.

Andrews L.

UK

Madrasen

J. Phys. Chem., 1972, 76, 119, 2718

CH₃₂

rock. V₃-cu.m. M₁ gef. } newas za
C₂ V₆ kennock. gef. } megachalcopy
Preferred quanum.

V₄ anfusam HCY gefs. 1106, 4 cm⁻¹.

V₅-C-Y ban. kaled-anfusam, M₁, 4 cm⁻¹.
stretch. наименование неизвестно

$$F_{44} = 2,53 \cdot 10^5 \text{ dynes}^{-1}$$

$$F_{45} = 0,243 \text{ millidynes/radian}$$

$$F_{55} = 0,395 \text{ millidynes} \cdot \text{\AA}/\text{radian}^2$$

$$(\text{CH}_3 \quad F_{55} = 0,413 \text{ mdy} \text{\AA}/\text{rad}^2).$$

CHI₂

1989

Суячакеев Н. В.,
Ресекко С. И. и гр.

Оригинал в трехстро-
м. н. скопии. 1989. 66, №.
с. 475-477.

(см. CHI; III)