



- Renewable Energy & Energy Conversion
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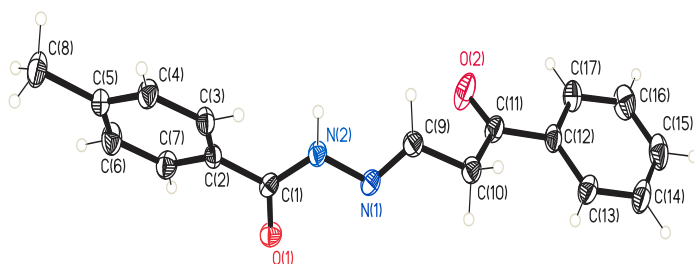
3-Fenil-3-Oksopropion Aldegidi *p*-Metilbenzoilgidrazonining kristall tuzilishi

M.A. Tursunov, F.N. Xayrullayev, B.B. Umarov, M.M. Amonov, B.Sh. Ganiyev

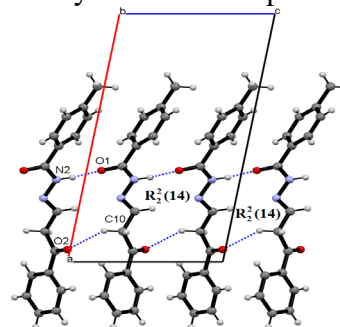
*Buxoro davlat universiteti, Akademik N.A. Parpiev nomidagi
“Koordinatsion birikmalar kimyosi” Ilmiy tadqiqot laboratoriyasi, Buxoro, O‘zbekiston*

3-Fenil-3-oksopropion aldegidi *p*-metilbenzoilgidrazonni (H₂L) qayta kristallash bilan C₁₇H₁₆N₂O₄ monokristallari o‘stirildi va RSA usuli bilan kristallning strukturasi aniqlandi.

Ligandning kristallari triklin singoniyaga mansub bo‘lib, elementar yacheykaning quyidagi parametrlariga ega: $a=15,6942(13)$, $b=12,1515(13)$, $c=8,0046(10)$, $\alpha=90$, $\beta=99,853(9)$, $\gamma=90^\circ$, $V=1504,0(3) \text{ \AA}^3$, $Z=4$, pr.gr. $R2_1/s$. Rentgenostruktur analiz “Xcalibur, Oxford Diffraction” avtomatik difraktometrida o‘tkazildi ($\lambda=1,5418 \text{ \AA}$, CuK α -nurlanish, grafit monoxromator, ω -skanlash, $\theta_{\max} = 75,8^\circ$, $\theta_{\min} = 4,6^\circ$). Birikmaning strukturasi bevosita usul bilan SHELXS-97 dasturi bo‘yicha ochildi va SHELXL-97 dasturi yordamida aniqlandi.



1-rasm. 3-fenil-3-oksopropion aldegidi *p*-metilbenzoilgidrazonining kristall strukturasi (H₂L)



2-rasm. 3-fenil-3-oksopropion aldegidi *p*-metilbenzoilgidrazoni (H₂L) kristallarining *as* tekislikda joylanish proeksiyasi va punktir chiziqlari bilan vorod bog‘lari

O(1)–C(1) (1,230 Å), O(2)–C(11) (1,207 Å), N(1)–C(9) (1,249 Å) bog‘larning uzunligiga qaraganda, ular garchi N(2)–C(1) (1,354 Å) bog‘ning uzunligi qolganlaridan farq qilsada, qo‘shbog‘lar hisoblanadi. Qo‘shbog‘ qiymatlaridagi bunday farq, bizning nazarimizda shu bilan tushuntiriladiki, C=O aldegid fragmentidagi π -bog‘lanish aromatik halqaning yagona π -orbitali bilan π - π -tutash bog‘lanishga kirishadi. C(1) atomi yassi-trigonal konfiguratsiyaga ega bo‘ladi (sp^2 - 173,4(4)°, -4,3(6)°, 179,8(4)°, 177,9(5)° ga teng bo‘lgan N(1)N(2)C(1)C(2), N(1)N(2)C(1)O(1), C(1)C(2)C(3)–C(4), C(8)C(5)C(6)C(7) torsion burchaklarning kattaliklari ham guvohlik beradi. Shunga o‘xshasha lokallashgan gibrid holat), uning natijasida atomlarning fazoda koplanar joylanishi kuzatiladi (1-rasm). Bu haqda qiymatlari tegishlicha tutash sistema yassi-trigonal C(9) atomi atrofida ham hosil bo‘ladi, u esa molekulaning β -ketoefir qismida u bilan bog‘langan atomlarning koplanar joylanishini ta’minlaydi. 2-rasmdan ko‘rinadiki, H₂L ligandning molekulasida haqiqatdan ham chiziqli gidrazon (AE) shaklda mavjud bo‘ladi [1]. 3-Fenil-3-oksopropion aldegidi *p*-metilbenzoilgidrazon kristallidagi struktura birliklarining joylanishi 3-rasmda ko‘rsatilgan.

[1] Умаров Б.Б., Турсунов М.А., Минин В.В. Комплексы с производными кетоальдегидов и кетоэфиров.- Ташкент.- Нишон-ношир.- 2016.- 350 с.

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