1944 independent reflections

 $R_{\rm int} = 0.032$ 

1559 reflections with  $I > 2\sigma(I)$ 

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## Di-tert-butyl 2-benzovlhydrazine-1,1dicarboxylate

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Key indicators: single-crystal X-ray study; T = 293 K; mean  $\sigma$ (C–C) = 0.004 Å; R factor = 0.038; wR factor = 0.109; data-to-parameter ratio = 8.6.

The crystal structure of the title compound,  $C_{17}H_{24}N_2O_5$ , was determined in the course of our studies on the preparation of two families of pseudopeptides, viz. hydrazino- and N-aminopeptides. The most significant interaction in the crystal structure is a bifurcated intermolecular N-H···O hydrogen bond.

#### **Related literature**

For the synthesis, see: Brosse et al. (2003). For geometry, see: Allen (2002); Kauffmann et al. (2004); Fong et al. (1996).



#### **Experimental**

#### Crystal data

C17H24N2O5  $M_{\rm w} = 336.38$ Orthorhombic, P212121 a = 9.9794 (2) Å b = 11.5763 (3) Å c = 16.0720 (4) Å

V = 1856.71 (8) Å <sup>3</sup>
Z = 4
Mo $K\alpha$ radiation
$\mu = 0.09 \text{ mm}^{-1}$
T = 293 (2) K

 $0.3 \times 0.05 \times 0.05 \; \text{mm}$ 

#### Data collection

Nonius KappaCCD area-detector diffractometer Absorption correction: none 9649 measured reflections

#### Refinement

$R[F^2 > 2\sigma(F^2)] = 0.038$	H atoms treated by a mixture of
$wR(F^2) = 0.109$	independent and constrained
S = 1.03	refinement
1944 reflections	$\Delta \rho_{\rm max} = 0.16 \ {\rm e} \ {\rm \AA}^{-3}$
226 parameters	$\Delta \rho_{\rm min} = -0.15 \text{ e } \text{\AA}^{-3}$

#### Table 1

Hydrogen-bond geometry (Å, °).

$D - H \cdot \cdot \cdot A$	D-H	$H \cdot \cdot \cdot A$	$D \cdots A$	$D - \mathbf{H} \cdot \cdot \cdot A$
$\begin{array}{c} N2 - H2 \cdots O2^{i} \\ N2 - H2 \cdots O4^{i} \end{array}$	0.82 (3)	2.53 (3)	3.233 (3)	145 (3)
	0.82 (3)	2.32 (3)	3.062 (3)	150 (3)

Symmetry code: (i)  $x + \frac{1}{2}, -y - \frac{1}{2}, -z$ .

Data collection: COLLECT (Nonius, 1998); cell refinement: SCALEPACK (Otwinowski & Minor, 1997); data reduction: SCALEPACK and DENZO (Otwinowski & Minor, 1997); program(s) used to solve structure: SIR92 (Altomare et al., 1999); program(s) used to refine structure: SHELXL97 (Sheldrick, 1997); molecular graphics: ORTEP-3 for Windows (Farrugia, 1997) and WebLab ViewerPro 3.5 (MSI, 1999); software used to prepare material for publication: WinGX publication routines (Farrugia, 1999).

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: HJ2004).

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supplementary materials

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## Di-tert-butyl 2-benzoylhydrazine-1,1-dicarboxylate

## C. Didierjean, N. Brosse, J. Bodiguel and B. Jamart-Grégoire

#### Comment

As part of our continuing studies on the synthesis and structure of hydrazino- and *N*-amino-peptides, we have described the crystal structure of *N*-(*tert*-Butyloxycarbonylamino)phthalimide (Kauffmann *et al.*, 2004). Here we report the crystal structure of the title compound, *N*-benzoyl-N<sup> $\beta$ </sup>, N<sup> $\alpha$ </sup>- bis (*tert*-butoxycarbonyl) hydrazine (Fig. 1).

Although the title compound is not chiral, it crystallizes in the non-centrosymmetric space group  $P2_12_12_1$ . The angle between the amide plane and the mean plane of the imidodicarbonate group is 78.43 (18)°, showing that these two groups are nearly perpendicular. The angle between the best-fit phenyl plane and the amide plane of 27.34 (7)° is similar to that reported for the benzamide group (Fong *et al.*, 1996).

In the crystal structure of the title compound, molecules are linked into infinite chains parallel to a *via* bifurcated N—H···O hydrogen bonds involving both carbonate of the aminoimidodicarbonate group (Fig. 2). All other intermolecular interactions are due to van der Waals forces.

#### Experimental

The title compound was prepared from *N*-(*tert*-Butyloxycarbonylamino)phthalimide (Brosse *et al.*, 2003), and was crystallized by slow evaporation of an ethanol solution.

#### Refinement

All H atoms were located in difference maps. The C-bonded H atoms were placed at calculated positions and refined using a riding model, with C—H distances of 0.93–0.96 Å. The N-bonded H atom was refined with free positional parameters. The H-atom  $U_{iso}$  parameters were fixed at 1.3Ueq(C) for aromatic C—H groups, at 1.3Ueq(N) for the N—H group and at 1.5Ueq(C) for methyl C—H.

#### **Figures**



Fig. 1. The molecular structure of title compound showing the atom-numbering scheme. All non-H atoms are represented by 25% probability displacement ellipsoids.



Fig. 2. Part of the crystal structure of the title compound showing the chains along [100]. The intermolecular hydrogen bonds are shown as dashed lines.

### Di-tert-butyl 2-benzoylhydrazine-1,1-dicarboxylate

Crystal data	
$C_{17}H_{24}N_2O_5$	$F_{000} = 720$
$M_r = 336.38$	$D_{\rm x} = 1.203 {\rm ~Mg} {\rm ~m}^{-3}$
Orthorhombic, $P2_12_12_1$	Mo K $\alpha$ radiation $\lambda = 0.7107$ Å
Hall symbol: P 2ac 2ab	Cell parameters from 9649 reflections
a = 9.9794 (2) Å	$\theta = 2.5 - 25.5^{\circ}$
b = 11.5763 (3)  Å	$\mu = 0.09 \text{ mm}^{-1}$
c = 16.0720 (4) Å	T = 293 (2)  K
$V = 1856.71 (8) \text{ Å}^3$	Prism, colorless
Z = 4	$0.3\times0.05\times0.05~mm$

#### Data collection

Nonius KappaCCD area-detector diffractometer	1559 reflections with $I > 2\sigma(I)$
Radiation source: fine-focus sealed tube	$R_{\rm int} = 0.032$
Monochromator: graphite	$\theta_{\text{max}} = 25.5^{\circ}$
$\omega$ and $\phi$ scans	$\theta_{\min} = 2.5^{\circ}$
Absorption correction: none	$h = -11 \rightarrow 11$
9649 measured reflections	$k = -14 \rightarrow 14$
1944 independent reflections	$l = -19 \rightarrow 19$

## Refinement

Refinement on  $F^2$ Least-squares matrix: full  $R[F^2 > 2\sigma(F^2)] = 0.038$  $wR(F^2) = 0.109$ S = 1.031944 reflections 226 parameters H atoms treated by a mixture of independent and constrained refinement  $w = 1/[\sigma^{2}(F_{o}^{2}) + (0.0717P)^{2} + 0.077P]$ where  $P = (F_{o}^{2} + 2F_{c}^{2})/3$  $(\Delta/\sigma)_{max} = 0.044$  $\Delta\rho_{max} = 0.16 \text{ e} \text{ Å}^{-3}$  $\Delta\rho_{min} = -0.15 \text{ e} \text{ Å}^{-3}$ Extinction correction: none

### Special details

**Geometry**. All e.s.d.'s (except the e.s.d. in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell e.s.d.'s are taken into account individually in the estimation of e.s.d.'s in distances, angles and torsion angles; correlations between e.s.d.'s in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell e.s.d.'s is used for estimating e.s.d.'s involving l.s. planes.

	x	У	Z	$U_{\rm iso}*/U_{\rm eq}$
C1	0.5100 (2)	-0.0209 (2)	-0.17416 (18)	0.0659 (7)
C2	0.6320 (3)	0.0439 (4)	-0.2024 (2)	0.0978 (11)
H2A	0.6566	0.0997	-0.1609	0.147*
H2B	0.6128	0.0829	-0.2538	0.147*
H2C	0.7046	-0.0092	-0.2106	0.147*
C3	0.3937 (3)	0.0597 (3)	-0.1641 (3)	0.1131 (13)
НЗА	0.3137	0.0158	-0.154	0.17*
H3B	0.3829	0.1045	-0.2139	0.17*
H3C	0.4099	0.1104	-0.1179	0.17*
C4	0.4826 (5)	-0.1216 (4)	-0.2302 (2)	0.1084 (12)
H4A	0.5609	-0.1695	-0.2334	0.163*
H4B	0.4602	-0.094	-0.2848	0.163*
H4C	0.4092	-0.1657	-0.2084	0.163*
01	0.55435 (15)	-0.06767 (16)	-0.09296 (11)	0.0615 (5)
C5	0.4705 (2)	-0.1231 (2)	-0.04390 (17)	0.0556 (6)
O2	0.35449 (18)	-0.14394 (19)	-0.05764 (15)	0.0834 (6)
N1	0.53802 (19)	-0.15842 (17)	0.02859 (13)	0.0533 (5)
N2	0.67171 (18)	-0.12688 (16)	0.03912 (13)	0.0493 (5)
H2	0.723 (3)	-0.177 (2)	0.0211 (18)	0.064*
C6	0.7009 (2)	-0.0142 (2)	0.05343 (15)	0.0501 (6)
03	0.61438 (18)	0.05698 (16)	0.06796 (13)	0.0722 (5)
C7	0.8465 (2)	0.0151 (2)	0.04796 (15)	0.0530 (6)
C8	0.9465 (2)	-0.0644 (2)	0.06302 (17)	0.0629 (7)
H8	0.9244	-0.139	0.0795	0.082*
C9	1.0804 (3)	-0.0334 (3)	0.0536 (2)	0.0855 (10)
Н9	1.1477	-0.0872	0.0637	0.111*
C10	1.1127 (3)	0.0761 (4)	0.0296 (2)	0.0952 (11)
H10	1.2022	0.0965	0.0232	0.124*
C11	1.0149 (4)	0.1561 (3)	0.0149 (2)	0.0937 (11)
H11	1.0378	0.2304	-0.0019	0.122*
C12	0.8811 (3)	0.1263 (3)	0.02503 (19)	0.0735 (8)
H12	0.8146	0.1812	0.0164	0.096*
C13	0.4706 (2)	-0.2161 (2)	0.09331 (16)	0.0542 (6)
O4	0.35904 (18)	-0.25409 (17)	0.08502 (12)	0.0743 (6)
05	0.54681 (15)	-0.22196 (15)	0.15998 (11)	0.0584 (4)
C14	0.5017 (3)	-0.2927 (2)	0.23280 (17)	0.0595 (6)
C15	0.3708 (3)	-0.2462 (2)	0.26688 (19)	0.0715 (8)
H15A	0.3791	-0.1646	0.2764	0.107*

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters  $(\hat{A}^2)$ 

# supplementary materials

H15B	0.3502	-0.2843	0.3184	0.107*
H15C	0.3003	-0.2601	0.2275	0.107*
C16	0.4944 (3)	-0.4176 (3)	0.2060 (2)	0.0883 (10)
H16A	0.423	-0.427	0.1665	0.132*
H16B	0.4778	-0.4655	0.2536	0.132*
H16C	0.5777	-0.4396	0.1807	0.132*
C17	0.6120 (3)	-0.2720 (4)	0.2951 (2)	0.0920 (10)
H17A	0.6962	-0.2953	0.2717	0.138*
H17B	0.5947	-0.3162	0.3445	0.138*
H17C	0.6153	-0.1914	0.3089	0.138*

## Atomic displacement parameters $(Å^2)$

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
C1	0.0554 (13)	0.0720 (17)	0.0704 (16)	-0.0016 (12)	-0.0099 (13)	0.0087 (14)
C2	0.077 (2)	0.125 (3)	0.091 (2)	-0.022 (2)	-0.0004 (18)	0.034 (2)
C3	0.080 (2)	0.096 (2)	0.163 (4)	0.026 (2)	0.012 (3)	0.041 (3)
C4	0.137 (3)	0.108 (3)	0.080(2)	-0.020 (3)	-0.023 (2)	-0.010 (2)
01	0.0458 (8)	0.0760 (11)	0.0626 (10)	-0.0073 (9)	-0.0035 (8)	0.0080 (9)
C5	0.0431 (13)	0.0549 (13)	0.0689 (16)	-0.0016 (11)	0.0006 (12)	0.0000 (12)
O2	0.0423 (10)	0.1008 (14)	0.1071 (16)	-0.0138 (9)	-0.0132 (10)	0.0264 (13)
N1	0.0362 (10)	0.0588 (11)	0.0648 (12)	-0.0080 (8)	0.0018 (9)	0.0017 (10)
N2	0.0359 (10)	0.0495 (11)	0.0626 (12)	-0.0023 (8)	0.0041 (9)	-0.0032 (9)
C6	0.0476 (13)	0.0537 (13)	0.0490 (13)	-0.0005 (10)	0.0015 (11)	-0.0047 (11)
O3	0.0571 (10)	0.0634 (10)	0.0960 (13)	0.0068 (9)	0.0060 (9)	-0.0205 (11)
C7	0.0470 (12)	0.0615 (14)	0.0503 (13)	-0.0099 (11)	0.0009 (11)	-0.0090 (11)
C8	0.0499 (13)	0.0681 (15)	0.0707 (16)	-0.0058 (13)	-0.0006 (12)	-0.0143 (14)
С9	0.0511 (15)	0.106 (3)	0.099 (2)	-0.0035 (16)	0.0008 (16)	-0.032 (2)
C10	0.0616 (18)	0.125 (3)	0.099 (2)	-0.039 (2)	0.0132 (18)	-0.022 (2)
C11	0.088 (2)	0.096 (2)	0.098 (3)	-0.042 (2)	0.0036 (19)	0.0067 (19)
C12	0.0696 (17)	0.0702 (17)	0.0806 (19)	-0.0189 (14)	-0.0040 (15)	0.0049 (16)
C13	0.0439 (13)	0.0551 (13)	0.0637 (14)	-0.0060 (11)	0.0075 (12)	-0.0056 (12)
O4	0.0537 (10)	0.0951 (14)	0.0740 (12)	-0.0262 (10)	0.0028 (9)	-0.0005 (10)
05	0.0451 (8)	0.0669 (10)	0.0632 (10)	-0.0113 (8)	0.0039 (8)	0.0058 (9)
C14	0.0508 (13)	0.0568 (15)	0.0711 (17)	-0.0038 (11)	0.0058 (12)	0.0078 (12)
C15	0.0632 (16)	0.0717 (18)	0.0796 (18)	0.0039 (14)	0.0190 (14)	0.0056 (14)
C16	0.092 (2)	0.0553 (17)	0.118 (3)	0.0054 (16)	0.023 (2)	0.0053 (16)
C17	0.0674 (17)	0.123 (3)	0.086 (2)	-0.0129 (19)	-0.0080 (17)	0.027 (2)
Geometric po	arameters (Å, °)					
C101		1.481 (3)	C8—	С9	1.39	3 (4)
C1—C3		1.498 (4)	C8—	H8	0.93	
C1—C4		1.498 (5)	С9—	C10	1.36	3 (5)
C1—C2		1.500 (4)	С9—	Н9	0.93	

C10-C11

C10—H10

C11-C12

C11—H11

0.96

0.96

0.96

0.96

1.367 (5)

1.388 (4)

0.93

0.93

C2—H2A

C2—H2B

С2—Н2С

С3—НЗА

С3—Н3В	0.96	C12—H12	0.93
С3—НЗС	0.96	C13—O4	1.204 (3)
C4—H4A	0.96	C13—O5	1.316 (3)
C4—H4B	0.96	O5—C14	1.498 (3)
C4—H4C	0.96	C14—C17	1.508 (4)
O1—C5	1.317 (3)	C14—C16	1.510 (4)
C5—O2	1.203 (3)	C14—C15	1.515 (4)
C5—N1	1.407 (3)	C15—H15A	0.96
N1—N2	1.393 (3)	C15—H15B	0.96
N1—C13	1.407 (3)	C15—H15C	0.96
N2—C6	1.356 (3)	C16—H16A	0.96
N2—H2	0.82 (3)	C16—H16B	0.96
C6—O3	1.216 (3)	C16—H16C	0.96
C6—C7	1.495 (3)	C17—H17A	0.96
С7—С8	1.378 (4)	С17—Н17В	0.96
C7—C12	1.383 (4)	С17—Н17С	0.96
O1—C1—C3	111.4 (3)	С9—С8—Н8	119.9
O1—C1—C4	107.5 (2)	C10—C9—C8	119.8 (3)
C3—C1—C4	114.0 (3)	С10—С9—Н9	120.1
O1—C1—C2	102.0 (2)	С8—С9—Н9	120.1
C3—C1—C2	110.5 (3)	C9—C10—C11	120.7 (3)
C4—C1—C2	110.8 (3)	С9—С10—Н10	119.6
C1—C2—H2A	109.5	C11—C10—H10	119.6
C1—C2—H2B	109.5	C10-C11-C12	119.8 (3)
H2A—C2—H2B	109.5	C10—C11—H11	120.1
C1—C2—H2C	109.5	C12—C11—H11	120.1
H2A—C2—H2C	109.5	C7—C12—C11	120.2 (3)
H2B—C2—H2C	109.5	С7—С12—Н12	119.9
С1—С3—НЗА	109.5	C11—C12—H12	119.9
С1—С3—Н3В	109.5	O4—C13—O5	127.3 (2)
НЗА—СЗ—НЗВ	109.5	O4—C13—N1	122.3 (2)
С1—С3—Н3С	109.5	O5—C13—N1	110.47 (18)
НЗА—СЗ—НЗС	109.5	C13—O5—C14	119.39 (17)
НЗВ—СЗ—НЗС	109.5	O5-C14-C17	102.3 (2)
C1—C4—H4A	109.5	O5—C14—C16	108.3 (2)
C1—C4—H4B	109.5	C17—C14—C16	112.2 (3)
H4A—C4—H4B	109.5	O5—C14—C15	110.3 (2)
C1—C4—H4C	109.5	C17—C14—C15	109.4 (2)
H4A—C4—H4C	109.5	C16—C14—C15	113.7 (2)
H4B—C4—H4C	109.5	C14—C15—H15A	109.5
C5—O1—C1	121.07 (18)	C14—C15—H15B	109.5
O2—C5—O1	126.8 (3)	H15A—C15—H15B	109.5
O2—C5—N1	123.7 (2)	C14—C15—H15C	109.5
O1—C5—N1	109.43 (19)	H15A—C15—H15C	109.5
N2—N1—C5	118.9 (2)	H15B—C15—H15C	109.5
N2—N1—C13	119.5 (2)	C14—C16—H16A	109.5
C5—N1—C13	121.37 (19)	C14—C16—H16B	109.5
C6—N2—N1	118.55 (19)	H16A—C16—H16B	109.5
C6—N2—H2	127.0 (19)	C14—C16—H16C	109.5

# supplementary materials

N1—N2—H2	111.5 (19)	H16A—C16—H16C	109.5
O3—C6—N2	122.2 (2)	H16B—C16—H16C	109.5
O3—C6—C7	123.2 (2)	С14—С17—Н17А	109.5
N2—C6—C7	114.6 (2)	С14—С17—Н17В	109.5
C8—C7—C12	119.1 (2)	H17A—C17—H17B	109.5
C8—C7—C6	122.8 (2)	С14—С17—Н17С	109.5
C12—C7—C6	118.0 (2)	H17A—C17—H17C	109.5
С7—С8—С9	120.2 (3)	H17B—C17—H17C	109.5
С7—С8—Н8	119.9		
C3—C1—O1—C5	56.4 (3)	C12—C7—C8—C9	-1.3 (4)
C4—C1—O1—C5	-69.2 (3)	C6—C7—C8—C9	177.3 (3)
C2-C1-O1-C5	174.2 (3)	C7—C8—C9—C10	0.2 (5)
C1—O1—C5—O2	1.2 (4)	C8—C9—C10—C11	0.2 (5)
C1	179.81 (19)	C9-C10-C11-C12	0.5 (6)
O2—C5—N1—N2	-178.3 (2)	C8—C7—C12—C11	2.0 (4)
O1—C5—N1—N2	3.1 (3)	C6—C7—C12—C11	-176.7 (3)
O2-C5-N1-C13	-3.7 (4)	C10-C11-C12-C7	-1.6 (5)
O1-C5-N1-C13	177.6 (2)	N2—N1—C13—O4	-173.4 (2)
C5—N1—N2—C6	69.7 (3)	C5—N1—C13—O4	12.0 (4)
C13—N1—N2—C6	-105.0 (3)	N2—N1—C13—O5	5.8 (3)
N1—N2—C6—O3	9.7 (4)	C5—N1—C13—O5	-168.72 (19)
N1—N2—C6—C7	-169.0 (2)	O4—C13—O5—C14	6.9 (4)
O3—C6—C7—C8	154.6 (3)	N1-C13-O5-C14	-172.37 (19)
N2—C6—C7—C8	-26.7 (4)	C13-05-C14-C17	-177.6 (2)
O3—C6—C7—C12	-26.7 (4)	C13—O5—C14—C16	63.8 (3)
N2—C6—C7—C12	151.9 (2)	C13—O5—C14—C15	-61.3 (3)

## Hydrogen-bond geometry (Å, °)

D—H···A	<i>D</i> —Н	$H \cdots A$	$D \cdots A$	$D\!\!-\!\!\mathrm{H}^{\dots}\!A$
N2—H2···O2 <sup>i</sup>	0.82 (3)	2.53 (3)	3.233 (3)	145 (3)
N2—H2···O4 <sup>i</sup>	0.82 (3)	2.32 (3)	3.062 (3)	150 (3)
Symmetry codes: (i) $x+1/2, -y-1/2, -z$ .				



Fig. 1

Fig. 2

