## Supporting information

for

# Elongated and substituted triazine-based tricarboxylic acid linkers for MOFs 

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## Experimental details

General remarks: Antimony(V) chloride (99\%, Alfa Aesar), [1,1'bis(diphenylphosphino)ferrocene]dichloro palladium(II) (99.9\%, ABCR), 4bromobenzoic acid (98 \%, Sigma-Aldrich), 4-bromobenzonitrile (99\%, Sigma-Aldrich), 3-hydroxybenzoic acid (97\%, Sigma-Aldrich), 4-(methoxycarbonyl)phenylboronic acid (97\%, ABCR), palladium on charcoal (10\%, Alfa Aesar) and tetrakis(triphenylphosphine)palladium(0) (99\%, ABCR) were purchased and used without further purification. Methyl 4'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1,1'-biphenyl-4-carboxylate (18) was synthesized as described. ${ }^{[1]}$ Dry solvents were obtained with suitable desiccants. Other solvents were distilled before use. Column chromatography was carried out with silica gel (Macherey-Nagel, particle size 0.04-
$0.063 \mathrm{~mm})$. Melting points were measured with a Gallenkamp MPD350.BM2.5 instrument. NMR spectra were recorded with a Bruker AC 200, DRX 500 or Avance 600 instrument at 300 K . Assignments are supported by COSY, HSQC, and HMBC. In some cases, not all ${ }^{13} \mathrm{C}$ signals could be found in the $1 \mathrm{D}{ }^{13} \mathrm{C}$ NMR spectra. In these cases, the listed chemical shifts have been extracted from the 2D spectra. Even when obtained by DEPT, the type of ${ }^{13} \mathrm{C}$ signal is always listed as singlet, doublet, etc. All chemical shifts are referenced to tetramethylsilane or the residual proton or carbon of the solvent. The NMR signals of atoms in the different arms of the triazines are assigned by using for instance Ar2 for atoms which are part of an benzene ring in the substituent at C-2 of the triazine. Aromatic rings within a biphenyl or terphenyl carry ' or " according to the biphenyl or terphenyl nomenclature. $\mathrm{El} / \mathrm{Cl}$ mass spectra were recorded with a Finnigan MAT 8200, MAT 8230 or JEOL AccuTOF GCV 4G the latter one being used for HRMS as well. ESI mass spectra were recorded with an Applied Biosystems Mariner 5280. MALDI-TOF mass spectra were recorded with a Bruker-Daltronics Biflex III with CI-CCA (4-chloro-a-cyanocinnamic acid) as matrix. IR spectra were recorded with a Perkin-Elmer Spectrum 100 spectrometer equipped with a Golden Gate Diamond ATR unit A-531-G. Elemental analyses were carried out with a Euro EA 3000 Elemental Analyzer from Euro Vector.

## 2-(4-Bromo-3-nitrophenyl)-4,6-bis(4-bromophenyl)-1,3,5-triazine (3b)

Under nitrogen and at $0^{\circ} \mathrm{C}$, antimony $(\mathrm{V})$ chloride ( $5.23 \mathrm{~mL}, 40.8 \mathrm{mmol}$ ) was added to a solution of crude 4-bromo-3-nitrobenzoyl chloride (5b, 8.86 g , max. 33.5 mmol ) and $p$-bromobenzonitrile ( $6,12.5 \mathrm{~g}, 68.7 \mathrm{mmol}$ ) in dry chloroform ( 120 mL ). The mixture was stirred for 1 h at room temp. and
 for 16 h at reflux. A yellow solid formed which was filtered off and washed with chloroform. At $0{ }^{\circ} \mathrm{C}$, aq. ammonia ( $390 \mathrm{~mL}, 28 \%$ ) was added in portions to the residue and the suspension was stirred for 2 h at room temp. The solid changed its color from yellow to white. After filtration, the product was separated from insoluble side products by a Soxhlet extraction (chloroform, 48 h ). Yield: 10.3 g ( 17.6 mmol , $53 \%$ ). M. p.: >300 ${ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{CDCl}_{3}, 323 \mathrm{~K}$ ): $\delta=9.11$ (d, $1 \mathrm{H},{ }^{4} \mathrm{~J}=1.8 \mathrm{~Hz}$, 2-Ar-H-2), $8.74\left(\mathrm{dd}, 1 \mathrm{H},{ }^{3} J=8.4 \mathrm{~Hz},{ }^{4} J=1.8 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-6\right), 8.58\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} J=8.5 \mathrm{~Hz}\right.$, 4,6-Ar-H-2,6), 7.98 (d, $1 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-5$ ), 7.72 (d, $4 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 4,6-\mathrm{Ar}-\mathrm{H}-$ $3,5)$ ppm. ${ }^{13} \mathrm{C}$ NMR (125 MHz, $\mathrm{CDCl}_{3}, 323 \mathrm{~K}$ ): $\delta=171.7$ (s, triazine-C-4,6), 169.4 (s, triazine- $C-2$ ), 150.5 (s, 2-Ar-C-3), 136.7 (s, 2-Ar-C-4), 135.3 (d, 2-Ar-C-5), 134.4 (s, 4,6-Ar-C-4), 132.6 (d, 2-Ar-C-6), 132.3 (d, 4,6-Ar-C-3,5), 130.6 (d, 4,6-Ar-C-2,6), 128.4 (s, 4,6-Ar-C-1), 125.6 (d, 2-Ar-C-2), 118.8 (s, 2-Ar-C-1) ppm. MS (EI, 70 eV): $m / z=588 / 590 / 592 / 594(34 / 100 / 90 / 33) \quad[\mathrm{M}]^{+} . \mathrm{MS}(\mathrm{CI}$, isobutane $): m / z=$ 589/591/593/595 (34/100/87/43) [M + H] ${ }^{+}$. IR (ATR): v̌○ = 3082 (aryl-H), 1592, 1509, 1486 (arom. C=C, arom. C=N), 1578 ( $\mathrm{NO}_{2}$ ), 1350 (C-N-val.), 806 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. HRMS (EI): m/z = calcd. 589.8411; found 589.8391 ( $\Delta 3.43$ ppm). Elemental analysis $\left(\mathrm{C}_{21} \mathrm{H}_{11} \mathrm{Br}_{3} \mathrm{~N}_{4} \mathrm{O}_{2}\right)$ (591.05): calcd. C 42.67 H 1.88 N 9.48 ; found C 42.67 H 1.77 N 9.07.




## 2-(4-Bromo-3-methoxyphenyl)-4,6-bis(4-bromophenyl)-1,3,5-triazine (3c)

Under nitrogen, 4-bromo-3-methoxy-benzoyl chloride [5c, crude, from $1.00 \mathrm{~g}(4.01 \mathrm{mmol})$ of 14] and p-bromobenzonitrile (6, $1.46 \mathrm{~g}, 8.02$ $\mathrm{mmol})$ were dissolved in dry chloroform ( 25 mL ). At $0{ }^{\circ} \mathrm{C}$, antimony $(\mathrm{V})$ chloride (616 $\mu \mathrm{L}, 4.81$ mmol ) was added and the mixture was stirred for
 1 h at room temp. followed by 16 h of reflux. The resulting red oxonium salt was filtered off and washed with chloroform. At $0^{\circ} \mathrm{C}$, aq. ammonia ( $50 \mathrm{~mL}, 28 \%$ ) was added to the residue and the suspension was stirred for 2 h at room temp. The solid changed its color from yellow to white. After filtration, the product was filtered off and was extracted for 24 h with chloroform (Soxhlet). After evaporation of the solvent, the residue was recrystallized from a boiling mixture of chloroform and petrol ether (30$\left.60^{\circ} \mathrm{C}\right)$ yielding a colourless solid. Yield: $1.41 \mathrm{~g}(2.45 \mathrm{mmol}, 61 \%) . \mathrm{M} . \mathrm{p} .: 203^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR (500 MHz, $\left.\mathrm{CDCl}_{3}\right): \delta=8.57\left(\mathrm{~m}_{\mathrm{c}}(\mathrm{d}), 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.7 \mathrm{~Hz}, 4,6-\mathrm{Ar}-\mathrm{H}-2,6\right), 8.23(\mathrm{~d}, 1 \mathrm{H}$, ${ }^{4} J=1.8 \mathrm{~Hz}, 2$-Ar-H-2), 8.21 (dd, $1 \mathrm{H},{ }^{3} J=8.2 \mathrm{~Hz},{ }^{4} J=1.8 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-6$ ), 7.72 (d, 1 H , $\left.{ }^{3} J=8.2 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-5\right), 7.70\left(\mathrm{~m}_{\mathrm{c}}(\mathrm{d}), 4 \mathrm{H},{ }^{3} J=8.7 \mathrm{~Hz}, 4,6-\mathrm{Ar}-\mathrm{H}-3,5\right), 4.09(\mathrm{~s}, 3 \mathrm{H}$, $\mathrm{OCH}_{3}$ ) ppm. ${ }^{13} \mathrm{C}$ NMR (125 MHz, $\mathrm{CDCl}_{3}$ ): $\delta=171.1$ (s, triazine- $\mathrm{C}-4,6$ ), 171.0 (s, triazine-C-2), 156.3 (s, 2-Ar-C-3), 136.4 (s, 2-Ar-C-1), 134.7 (s, 4,6-Ar-C-1), 133.6 (d, 2-Ar-C-5), 132.0 (d, 4,6-Ar-C-3,5), 130.4 (d, 4,6-Ar-C-2,6), 127.8 (s, 4,6-Ar-C-4), 122.5 (d, 2-Ar-C-6), 117.3 (s, 2-Ar-C-4), 111.6 (d, 2-Ar-C-2), 56.4 (q, $\mathrm{OCH}_{3}$ ) ppm. MS (El, 70 eV ): m/z = 572/574/576/578 (34/100/96/34) [M] ${ }^{+}$, 180 (85) $\left[\mathrm{M}-\mathrm{C}_{15} \mathrm{H}_{10} \mathrm{Br}_{2} \mathrm{~N}_{2} \mathrm{O}\right]^{+} . \operatorname{IR}(\mathrm{ATR}): \tilde{\sim}=3033$ (aryl-H), 1598, 1505, 1485 (arom. C=C, arom. $\mathrm{C}=\mathrm{N}$ ), 1414 (C-N-val.), 1251 (aryl- $\mathrm{OCH}_{3}$ ), 831 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. HRMS (EI): $\mathrm{m} / \mathrm{z}=$ calcd. 578.8625; found 578.8608 ( $\Delta 3.12 \mathrm{ppm}$ ).

Elemental analysis $\left(\mathrm{C}_{22} \mathrm{H}_{14} \mathrm{Br}_{3} \mathrm{~N}_{3} \mathrm{O}\right)$ (576.08): calcd. C 45.87 H 2.45 N 7.29 ; found C 46.09 H 2.46 N 6.94.



## 4-Bromo-3-nitrobenzoyl chloride (5b)

A solution of 4-bromo-3-nitrobenzoic acid (9, $4.00 \mathrm{~g}, 80.0 \mathrm{mmol}$ ) in thionyl chloride ( 24 mL ) was heated to reflux for 2 h . Removal of excess thionyl chloride in vacuo yielded a yellow oil which was used without
 further purification. ${ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=8.54\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=2.2 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-2\right.$ ), $8.13\left(\mathrm{dd}, 1 \mathrm{H},{ }^{3} J=8.5 \mathrm{~Hz},{ }^{4} J=2.2 \mathrm{~Hz}, \operatorname{Ar}-H-6\right), 7.94\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} J=8.5 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-5\right) \mathrm{ppm}$. ${ }^{13} \mathrm{C}$ NMR (125 MHz, $\mathrm{CDCl}_{3}$ ): $\delta=166.0$ (s, COCl ), 150.2 (s, Ar-C-3), 136.2 (d, Ar-C6), 134.2 ( $\mathrm{d}, \operatorname{Ar}-C-5$ ), 133.6 (s, Ar-C-1), 127.7 (d, Ar-C-2), 122.6 (s, Ar-C-4) ppm. MS (El, 70 eV ): $m / z=264 / 262(14 / 11)[\mathrm{M}]^{+}, 229 / 227(96 / 100)[\mathrm{M}-\mathrm{Cl}]^{+} . \mathrm{MS}(\mathrm{CI}$, isobutane): $m / z=265 / 263(100 / 94)[\mathrm{M}+\mathrm{H}]^{+}, 229 / 227(45 / 40)[\mathrm{M}-\mathrm{Cl}]^{+}$.

## 4-Bromo-3-methoxy-benzoyl chloride (5c)

$N, N$-Dimethylformamide ( $10 \mu \mathrm{~L}$ ) was added to a mixture of 4-bromo-3-methoxy-benzoic acid (14, $1.00 \mathrm{~g}, 4.01 \mathrm{mmol}$ ) and thionyl chloride ( 5 mL ). After heating to reflux for 2 h , excess thionyl chloride was distilled off and the crude colourless solid was used without further
 purification. ${ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=7.70\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-5\right), 7.63$ (dd, $1 \mathrm{H},{ }^{3} J=8.3 \mathrm{~Hz},{ }^{4} J=2.0 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-6$ ), $7.54\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=2.0 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-2\right), 3.97(\mathrm{~s}$, $3 \mathrm{H}, \mathrm{OCH}_{3}$ ) ppm. ${ }^{13} \mathrm{C} \operatorname{NMR}\left(125 \mathrm{MHz}, \mathrm{CDCl}_{3}\right): \delta=167.7$ (s, COCl ), 156.3 (s, Ar-C-3), 133.8 (d, Ar-C-5), 133.5 (s, Ar-C-1), 125.0 (d, Ar-C-6), 120.9 (s, Ar-C-4), 113.0 (d, Ar-$\mathrm{C}-2), 56.5\left(\mathrm{q}, \mathrm{OCH}_{3}\right) \mathrm{ppm}$.

## 4-Bromo-3-nitrobenzoic acid (9)

p-Brombenzoic acid (8, $5.00 \mathrm{~g}, 24.9 \mathrm{mmol}$ ) was slowly added in portions to a cold mixture $\left(0^{\circ} \mathrm{C}\right)$ of conc. nitric acid ( $6.2 \mathrm{~mL}, 0.15 \mathrm{mmol}$ ) and conc. sulfuric acid ( $15.2 \mathrm{~mL}, 300 \mathrm{mmol}$ ). The addition was performed in such a
 way that the temperature did not exceed $5^{\circ} \mathrm{C}$. After stirring for 3 h at $0^{\circ} \mathrm{C}$ and 2 h at room temp., the mixture was poured on ice-containing water. The resulting colourless solid was filtered off and washed extensively with water. Yield: $6.00 \mathrm{~g}(24.4 \mathrm{mmol}$, $98 \%$ ) (ref. $\left.{ }^{[2]:} 96 \%\right)$, m. p. $202{ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR (200 MHz, DMSO-d $): \delta=8.46-8.42(\mathrm{~m}$, 1H, Ar-H-2), 8.09-8.05 (m, 2H, Ar-H-5,6) ppm. ${ }^{13} \mathrm{C}$ NMR (50 MHz, DMSO-d $\mathrm{d}_{6}$ ): $\delta=$ 165.0 ( $\mathrm{s}, \mathrm{CO}_{2} \mathrm{H}$ ), 149.7 ( $\mathrm{s}, \mathrm{Ar}-\mathrm{C}-3$ ), 135.4 (d, Ar-C-6), 132.4 (d, Ar-C-5), 131.7 (s, Ar-$C-1$ ), 125.9 (d, Ar-C-2), 118.0 (Ar-C-4) ppm. MS (El, 70 eV ): $m / z=245 / 247$ (95/100) $[M]^{+} . \mathrm{MS}\left(\mathrm{CI}\right.$, isobutane): $m / z=246 / 248(100 / 99)[M+H]^{+}$. IR (ATR): $\mathfrak{v o}=3082$ (arylH), 2820 (br., OH), 1684 (C=O), 1595 (arom. $\mathrm{C}=\mathrm{C}$ ), 1530, $1303\left(\mathrm{NO}_{2}\right), 1034$ (aryl-Br), 907, 809 (1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$.

## 4-Bromo-3-hydroxybenzoic acid (11)

To a solution of 3-hydroxybenzoic acid (10, $15.0 \mathrm{~g}, 109 \mathrm{mmol}$ ) in a mixture of ethanol $(60 \mathrm{~mL})$ and acetic acid $(30 \mathrm{~mL})$, bromine $(11.2 \mathrm{~mL}$, $218 \mathrm{mmol})$ was added slowly and dropwise. After stirring for 30 min at
 room temp., aq. sodium thiosulfate solution ( 90 mL ) was added and ethanol was removed in vacuo. The remaining aq. layer was extracted with ethyl acetate ( $5 \times 200 \mathrm{~mL}$ ) and the combined organic layer was dried with magnesium sulfate. After removal of the solvent, the crude product was recrystallized from boiling water and a colourless solid was obtained. Yield: 12.19 g ( $56.2 \mathrm{mmol}, 52 \%$ ) (ref. ${ }^{[3]}$ :
$40 \%$ ). M. p.: $225-227^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{DMSO}-d_{6}$ ): $\delta=13.04$ (br. s, 1 H , $\mathrm{CO}_{2} H$ ), $10.62(\mathrm{~s}, 1 \mathrm{H}, \mathrm{OH}), 7.59\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-5\right), 7.51\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=2.0 \mathrm{~Hz}\right.$, Ar-H-2), 7.28 (dd, $1 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz},{ }^{4} \mathrm{~J}=2.0 \mathrm{~Hz}, \operatorname{Ar}-\mathrm{H}-6$ ) ppm. ${ }^{13} \mathrm{C}$ NMR ( 125 MHz , DMSO- $d_{6}$ ): $\delta=167.2\left(\mathrm{~s}, \mathrm{CO}_{2} \mathrm{H}\right.$ ), 154.6 (s, Ar- $C-3$ ), 133.5 (d, Ar-C-5), 131.8 (s, Ar-C1), 121.6 (d, Ar-C-6), 117.1 (d, Ar-C-2), 115.0 (s, $\operatorname{Ar-C-4)~ppm.~MS~(EI,~} 70 \mathrm{eV}$ ): m/z= 216/218 (100/97) [M] ${ }^{+}$, 199, $201(73,70)[\mathrm{M}-\mathrm{OH}]^{+}$.

## Methyl 4-bromo-3-hydroxybenzoate (12)

Conc. sulfuric acid (12 mL) was added to a suspension of 4-bromo-3hydroxybenzoic acid (11, $12.2 \mathrm{~g}, 56.2 \mathrm{mmol})$ in methanol ( 120 mL ). After heating to reflux for 16 h , the solution was neutralized with sat. aq. sodium bicarbonate solution and methanol was distilled off in vacuo.
 The remaining aq. phase was extracted with ethyl acetate $(3 \times 100 \mathrm{~mL})$ and the combined organic layer was dried with magnesium sulfate. Filtration and removal of the solvent in vacuo yielded a colourless solid. Yield: 12.2 g ( $52.7 \mathrm{mmol}, 94 \%$ ) (ref. ${ }^{[4]}$ : no yield given). M. p.: $124^{\circ} \mathrm{C}$ (ref. $\left.{ }^{[4]}: 120-122{ }^{\circ} \mathrm{C}\right) .{ }^{1} \mathrm{H} \mathrm{NMR}\left(500 \mathrm{MHz}, \mathrm{CDCl}_{3}\right): \delta=$ $7.68\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=2.0 \mathrm{~Hz}, \operatorname{Ar}-\mathrm{H}-2\right), 7.54\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-5\right), 7.48\left(\mathrm{dd}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=\right.$ $8.3 \mathrm{~Hz},{ }^{4} \mathrm{~J}=2.0, \mathrm{Ar}-\mathrm{H}-6$ ), 5.75 (br. s, $1 \mathrm{H}, \mathrm{OH}$ ), $3.91\left(\mathrm{~s}, 3 \mathrm{H}, \mathrm{CO}_{2} \mathrm{CH}_{3}\right) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR (125 MHz, $\mathrm{CDCl}_{3}$ ): $\delta=166.2\left(\mathrm{~s}, \mathrm{CO}_{2} \mathrm{CH}_{3}\right.$ ), 152.4 (s, Ar-C-3), 132.2 (d, Ar-C-5), 131.3 (s, Ar-C-1), 122.7 (d, Ar-C-6), 117.1 (d, Ar-C-2), 115.6 (s, Ar-C-4), 52.4 (q, $\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. MS (EI, 70 eV$): m / z=230,232(63,60)[\mathrm{M}]^{+}$.

## Methyl 4-bromo-3-methoxy-benzoate (13)

Method A: Potassium carbonate ( $4.56 \mathrm{~g}, 33.0 \mathrm{mmol}$ ) was added to a solution of methyl 4-bromo-3-hydroxybenzoate (12, 6.24 g , 27.0 mmol ) in acetone ( 40 mL ). Dimethyl sulfate ( $3.03 \mathrm{~mL}, 32.0 \mathrm{mmol}$ )
 was added and the mixture was heated to reflux for 3 h . At room temp., deionized water was added ( 5 mL ) and acetone was distilled off in vacuo. The remaining aq. phase was extracted with dichloromethane $(3 \times 100 \mathrm{~mL})$, the combined organic layer was dried with magnesium sulfate, filtered and the solvent was removed in vacuo yielding a colourless solid. Yield: $6.59 \mathrm{~g}(26.9 \mathrm{mmol}, ~>99 \%)\left(r e f .{ }^{[5]}\right.$ : 99\%).

Method B: Potassium carbonate ( $2.54 \mathrm{~g}, 18.4 \mathrm{mmol}$ ) was added to a solution of 4-bromo-3-hydroxybenzoic acid (11, $1.00 \mathrm{~g}, 4.61 \mathrm{mmol}$ ) in $\mathrm{N}, \mathrm{N}$-dimethylformamide $(10 \mathrm{~mL})$. Methyl iodide ( $863 \mu \mathrm{~L}, 13.8 \mathrm{mmol}$ ) was added and the mixture was stirred for 16 h at room temp. Deionized water ( 50 mL ) was added and the aq. phase was extracted with tert-butyl methyl ether ( $3 \times 100 \mathrm{~mL}$ ). The combined organic layer was washed with brine ( 100 mL ) and dried with magnesium sulfate. After filtration, the solvent was evaporated in vacuo yielding a colourless solid. Yield: 938 mg (3.83 mmol, 83\%) (ref. ${ }^{[3]}$ : 91\%).
M. p. $53^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=7.61\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.2 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-5\right), 7.55$ (d, $1 \mathrm{H},{ }^{4} J=1.8 \mathrm{~Hz}, \operatorname{Ar}-\mathrm{H}-2$ ), 7.51 (dd, $1 \mathrm{H},{ }^{3} J=8.2 \mathrm{~Hz},{ }^{4} J=1.8 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-6$ ), 3.95 (s, $3 \mathrm{H}, \mathrm{OCH}_{3}$ ), $3.92\left(\mathrm{~s}, 3 \mathrm{H}, \mathrm{CO}_{2} \mathrm{CH}_{3}\right) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR ( $125 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=166.4$ (s, $\mathrm{CO}_{2} \mathrm{Me}$ ), 155.9 ( $\mathrm{s}, \mathrm{Ar}-\mathrm{C}-3$ ), 133.3 (d, $\mathrm{Ar}-C-5$ ), 130.6 (s, $\mathrm{Ar}-\mathrm{C}-1$ ), 122.9 (d, $\mathrm{Ar}-\mathrm{C}-6$ ), 117.5 (s, Ar-C-4), 112.4 (d, $\mathrm{Ar}-\mathrm{C}-2$ ), $56.4\left(\mathrm{q}, \mathrm{OCH}_{3}\right), 52.4$ (q, $\left.\mathrm{CO}_{2} \mathrm{CH}_{3}\right) \mathrm{ppm}$. HRMS (EI): $m / z=$ calcd. 243.9735 ; found 243.9744 ( $\Delta 4.01 \mathrm{ppm}$ ).

## 4-Bromo-3-methoxybenzoic acid (14)

Aq. sodium hydroxide ( $2 \mathrm{~m}, 40 \mathrm{~mL}$ ) was added to a solution of methyl 4-bromo-3-methoxy-benzoate (13, $6.52 \mathrm{~g}, 27.1 \mathrm{mmol}$ ) in methanol $(200 \mathrm{~mL})$ and the mixture was stirred for 6 h at room temp. Deionized water ( 100 mL ) was added and methanol was distilled off in vacuo.
 The remaining aq. phase was washed with dichloromethane ( $3 \times 100 \mathrm{~mL}$ ) and acidified with hydrochloric acid ( 6 m ). The precipitate was filtered off and was washed thoroughly with water yielding a colourless solid. Yield: 4.10 g ( $17.8 \mathrm{mmol}, 66 \%$ ) (ref ${ }^{[5]:}: 89 \%$ ). M. p.: $220{ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H} \operatorname{NMR}\left(500 \mathrm{MHz}, \mathrm{DMSO}-d_{6}\right.$ ): $\delta=13.21$ (br. s, 1 H , $\mathrm{CO}_{2} H$ ), $7.71\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.2 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-5\right), 7.54\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=1.8 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-2\right), 7.46$ (dd, $\left.1 \mathrm{H},{ }^{3} \mathrm{~J}=8.2 \mathrm{~Hz},{ }^{4} \mathrm{~J}=1.8 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-6\right), 3.91\left(\mathrm{~s}, 3 \mathrm{H}, \mathrm{OCH}_{3}\right) \mathrm{ppm} .{ }^{13} \mathrm{C} \mathrm{NMR}(125 \mathrm{MHz}$, DMSO- $d_{6}$ ): $\delta=167.1\left(\mathrm{~s}, \mathrm{CO}_{2} \mathrm{H}\right.$ ), 155.9 ( $\mathrm{s}, \mathrm{Ar}-C-3$ ), 133.6 ( $\mathrm{d}, \mathrm{Ar}-C-5$ ), 132.1 (s, Ar-C1), 123.2 ( $\mathrm{d}, \mathrm{Ar}-\mathrm{C}-6$ ), 116.5 (s, $\operatorname{Ar}-C-4$ ), 113.0 (d, $\operatorname{Ar-C-2),~} 56.8$ (q, $\mathrm{OCH}_{3}$ ) ppm. MS (EI, 70 eV ): $m / z=230 / 232(100 / 98)[M]^{+}$.

## 2,4-Bis[4'-(methoxycarbonyl)-biphenyl-4-yl]-6-[4'-(methoxycarbonyl)-2-nitro-biphenyl-4-yl)-1,3,5-triazine (16b)

Under nitrogen, 2-(4-
bromo-3-nitrophenyl)-
4,6-bis(4-
bromophenyl)-1,3,5-
triazine $\quad(\mathbf{3 b}, \quad 3.00 \mathrm{~g}$,
5.08 mmol ),

4-
methoxycarbonyl-
phenylboronic acid (15,
$4.10 \mathrm{~g}, \quad 22.8 \mathrm{mmol})$,
potassium phosphate $(7.00 \mathrm{~g}, 33.0 \mathrm{mmol})$ and tetrakis(triphenylphosphine) palladium(0) $(300 \mathrm{mg}, 260 \mu \mathrm{~mol})$ in a mixture of 1,4-dioxane $(300 \mathrm{~mL})$ and deionized water ( 20 mL ) were heated to reflux for 48 h . Conversion was checked by TLC (silica gel, cyclohexane/ethyl acetate, 1:1, $\left.R_{f}=0.69\right)$. After evaporation of the 1,4-dioxane in vacuo, chloroform ( 150 mL ) was added and the organic layer was washed with deionized water ( $2 \times 100 \mathrm{~mL}$ ) and brine $(50 \mathrm{~mL})$. The organic layer was dried with magnesium sulfate. After filtration and evaporation of the solvent in vacuo, the crude product was dissolved in chloroform, activated charcoal was added, and after filtration, the product was recrystallized from chloroform yielding a colourless solid. Yield: $3.46 \mathrm{~g}(4.57 \mathrm{mmol}, 90 \%)$. M. p.: $174{ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ) : $\delta=9.22$ (d, $1 \mathrm{H},{ }^{4} J=1.7 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-3$ ), 8.96 (dd, $1 \mathrm{H},{ }^{3} J=8.0 \mathrm{~Hz},{ }^{4} J=1.7 \mathrm{~Hz}, 6-\operatorname{Ar}-\mathrm{H}-5$ ), 8.81 ( $\left.m_{c}(d), 4 H,{ }^{3} J=8.6 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-2,6\right), 8.15\left(\mathrm{~m}_{\mathrm{c}}(\mathrm{d}), 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.6 \mathrm{~Hz}, 2,4-\mathrm{Ar}^{\prime}-H-3,5\right)$, 8.13 ( $\left.m_{c}(d), 2 H,{ }^{3} J=8.6 \mathrm{~Hz}, 6-A r^{\prime}-H-3,5\right), 7.81\left(m_{c}(d), 4 H,{ }^{3} J=8.6 \mathrm{~Hz}, 2,4-\right.$ Ar-H-3,5), 7.74 ( $\left.m_{c}(d), 4 H,{ }^{3} J=8.6 \mathrm{~Hz}, 2,4-A r^{\prime}-H-2,6\right), 7.61\left(d, 1 H,{ }^{3} J=8.0 \mathrm{~Hz}, 6-\right.$

Ar-H-6), 7.44 ( $m_{c}$ (d), 2H, ${ }^{3} \mathrm{~J}=8.6 \mathrm{~Hz}, 6-\mathrm{Ar}^{\prime}-\mathrm{H}-2,6$ ), 3.97 (s, 9H, OCH $\mathrm{O}_{3}$ ) ppm. ${ }^{13} \mathrm{C}$ NMR (125 MHz, $\mathrm{CDCl}_{3}$ ): $\delta=171.6$ (s, triazine- $C-2,4$ ), 169.3 (s, triazine- -6 -6), 166.8 (s, 2,4-Ar'- $\mathrm{CO}_{2} \mathrm{Me}$ ), 166.5 (s, 6-Ar'- $\mathrm{CO}_{2} \mathrm{Me}$ ), 149.6 (s, 6-Ar-C-2), 144.4 (s, 2,4-Ar'-C1), 144.3 (s, 2,4-Ar-C-4), 141.4 (s, 6-Ar'-C-1), 138.8 (s, 6-Ar-C-1), 137.3 (s, 6-Ar-C-4), 135.2 ( $s, 2,4-\operatorname{Ar}-C-1$ ), 132.2 (d, 6-Ar-C-5), 132.1 (d, 6-Ar-C-6), 130.4 (s, 6-Ar'-C-4), 130.3 (d, 2,4-Ar'-C-3,5), 130.1 (d, 2,4-Ar-C-3,5), 129.7 (s, 2,4-Ar'-C-4), 129.7 (d, 6-Ar'-C-2,6), 128.0 (d, 2,4-Ar'-C-2,6), 127.6 (6-Ar'-C-3,5), 127.2 (d, 2,4-Ar-C-2,6), 124.6 (d, 6-Ar-C-3), 52.3 (q, 6-Ar'- $\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 52.2 (q, 2,4- $\mathrm{Ar}^{\prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. MS (MALDI, CICCA): $m / z=757[\mathrm{M}+\mathrm{H}]^{+}, 767[\mathrm{M}+\mathrm{Na}]^{+}, 776[\mathrm{M}+\mathrm{K}]^{+} . \operatorname{IR}(A T R): \tilde{\circ}=3076,3006$ (aryl-H), 2951, 2895 (CH-val.), $2844\left(\mathrm{OCH}_{3}\right), 1717$ (C=O), 1607, 1580, 1563, 1506 (arom. C=C, arom. C=N), 1535, 1314 (NO2), 1434 (CH-Def.), 1357 (C-N-val.), 1257, $1105\left(\mathrm{CO}_{2} \mathrm{Me}\right), 813$ (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1} . \mathrm{MS}(\mathrm{EI}, 70 \mathrm{eV}): \mathrm{m} / \mathrm{z}$ $(\%)=756(65)[\mathrm{M}]^{+*}, 726(100)\left[\mathrm{M}-\mathrm{CH}_{3} \mathrm{O}+\mathrm{H}\right]^{++}, 238(61)\left[\left(\mathrm{M}-\mathrm{C}_{15} \mathrm{H}_{10} \mathrm{~N}_{2} \mathrm{O}_{4}\right) / 2\right]^{+}, 206$ (70) $\left[\left(\mathrm{M}-\mathrm{C}_{15} \mathrm{H}_{10} \mathrm{~N}_{2} \mathrm{O}_{4}\right) / 2-\mathrm{CH}_{3} \mathrm{O}\right]^{+}, 178(63)\left[\left(\mathrm{M}-\mathrm{C}_{15} \mathrm{H}_{10} \mathrm{~N}_{2} \mathrm{O}_{4}\right) / 2-\mathrm{C}_{2} \mathrm{H}_{3} \mathrm{O}\right]^{+}$. HRMS (EI): $m / z=$ calcd. 756.2219 ; found 756.2191 ( $\Delta 3.9 \mathrm{ppm}$ ). Elemental analysis $\left(\mathrm{C}_{45} \mathrm{H}_{32} \mathrm{~N}_{4} \mathrm{O}_{8}\right)(756.76)$ : calcd. C 71.42 H 4.26 N 7.40 ; found C 71.54 H 4.16 N 7.32 .



## 2,4-Bis[4'-(methoxycarbonyl)-biphenyl-4-yl]-6-[2-methoxy-4'-(methoxycarbonyl)-biphenyl-4-yl]-1,3,5-triazine (16c)

To a mixture of 2-(4-bromo-3-
methoxyphenyl)-4,6-
bis(4-bromophenyl)-
1,3,5-triazine (3c,
$100 \mathrm{mg}, \quad 174 \mu \mathrm{~mol})$,
4-methoxycarbonyl-
phenylboronic acid (15,
$130 \mathrm{mg}, 783 \mu \mathrm{~mol})$ and

potassium phosphate ( $250 \mathrm{mg}, 1.18 \mathrm{mmol}$ ) in 1,4-dioxane ( 10 mL ) and deionized water ( 1 mL ) under nitrogen, tetrakis(triphenylphosphine)palladium(0) (19 mg, 16 $\mu \mathrm{mol})$ was added. The mixture was stirred for 48 h at $100^{\circ} \mathrm{C}$, the solvent was evaporated in vacuo, the residue was dissolved in chloroform ( 50 ml ) and washed with deionized water ( $3 \times 25 \mathrm{~mL}$ ) and brine $(25 \mathrm{~mL})$. The organic layer was dried with magnesium sulfate and heated after activated charcoal had been added. After filtration through celite, the solvent was evaporated in vacuo and the crude product was recrystallized from a boiling mixture of toluene and $n$-heptane. A colourless solid was obtained. Yield: $94 \mathrm{mg}(127 \mu \mathrm{~mol}, 73 \%) . \mathrm{M} . \mathrm{p} .: 203{ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( 500 MHz , $\mathrm{CDCl}_{3}$ ): $\delta=8.85\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-2,6\right), 8.47\left(\mathrm{dd}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=7.9 \mathrm{~Hz},{ }^{4} \mathrm{~J}=1.5\right.$ $\mathrm{Hz}, 6-\mathrm{Ar}-\mathrm{H}-5$ ), $8.40\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=1.5 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-3\right.$ ), $8.16\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-\right.$ $3,5), 8.12\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 6-\mathrm{Ar}^{\prime}-H-3,5\right), 7.83\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} J=8.5 \mathrm{~Hz}, 2,4-\mathrm{Ar}-H-3,5\right)$, $7.76\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} J=8.5 \mathrm{~Hz}, 2,4-\mathrm{Ar}^{\prime}-H-2,6\right), 7.70\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} J=8.5 \mathrm{~Hz}, 6-\mathrm{Ar}{ }^{\prime}-H-2,6\right), 7.54$ (d, $1 \mathrm{H},{ }^{3} \mathrm{~J}=7.9 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-6$ ), $4.04\left(\mathrm{~s}, 3 \mathrm{H}, \mathrm{OCH}_{3}\right), 3.97\left(\mathrm{~s}, 6 \mathrm{H}, 2,4-\mathrm{Ar}^{\prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}\right), 3.96(\mathrm{~s}$,
$3 \mathrm{H}, 6-\mathrm{Ar}^{\prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. ${ }^{13} \mathrm{C}$ NMR ( $125 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=171.2$ (s, triazine- $\mathrm{C}-2,4$ ), 171.2 (s, triazine-C-6), 167.0 (s, 2,4-Ar'-CO2Me), 166.9 (s, 6-Ar'- $\mathrm{CO}_{2} \mathrm{Me}$ ), 156.8 (s, 6-Ar-C-2), 144.6 (s, 2,4-Ar'-C-1), 144.0 (s, 2,4-Ar-C-4), 142.6 (s, 6-Ar'-C-1), 137.2 (s, 6-Ar-C-4), 135.8 (s, 2,4-Ar-C-1), 133.8 (s, 6-Ar-C-1), 131.0 (s, 6-Ar-C-6), 130.2 (d, 2,4-Ar'- C-3,5), 129.6 ( $\mathrm{d}, 2,4-\mathrm{Ar}-\mathrm{C}-2,6$ ), 129.6 ( $\mathrm{d}, 6-\mathrm{Ar}^{\prime}-\mathrm{C}-2,6$ ), 129.5 (s, 2,4-Ar'-C-4), 129.4 (d, 6-Ar'-C-3,5), 129.0 (s, 6-Ar'-C-4), 127.5 (d, 2,4-Ar-C-3,5), 127.2 (d, 2,4-Ar'-C-2,6), 121.9 (d, 6-Ar-C-5), 111.4 (d, 6-Ar-C-3), 55.8 ( $\mathrm{q}, \mathrm{OCH}_{3}$ ), 52.2 (q, 2,4-Ar'$\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 52.1 (q, 6-Ar'- $-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. MS ( $\mathrm{El}, 70 \mathrm{eV}$ ): $m / z=741$ (100) [M] ${ }^{+}, 238$ (69) $\left[\mathrm{M}-\mathrm{C}_{31} \mathrm{H}_{23} \mathrm{~N}_{2} \mathrm{O}_{5}\right]^{+}$. IR (ATR): $\mathfrak{\sim} \circ=3005$ (aryl-H), 2954, 2878, 2840 (CH-val.), 1715 (C=O), 1607, 1582, 1508, 1419 (arom. C=C, arom. C=N), 1434 (CH-Def.), 1360 (C-N-val.), 1273 (aryl- $\mathrm{OCH}_{3}$ ), 812 (1,4-disubst. aryl, 1,3,4-trisubst. aryl) $\mathrm{cm}^{-1}$. HRMS (El): m/z = calcd. 741.2475; found 741.2465 ( $\Delta 1.42 \mathrm{ppm}$ ). Elemental analysis $\left(\mathrm{C}_{46} \mathrm{H}_{35} \mathrm{~N}_{3} \mathrm{O}_{7}\right)$ (741.79): calcd. C 74.48 H 4.76 N 5.66 ; found C 74.59 H 4.93 N 5.69 .


## 2-[2-Amino-4'-(methoxycarbonyl)-biphenyl-4-yl]-4,6-bis[4'-(methoxycarbonyl)-biphenyl-4-yl]-1,3,5-triazine (16d)

An autoclave was filled
with 2-[4'-
(methoxycarbonyl)-2-
nitro-biphenyl-4-yl]-4,6-
bis[4'-
(methoxycarbonyl)-
biphenyl-4-yl]-1,3,5-
triazine (16b, 100 mg ,
$132 \mu \mathrm{~mol}$ and

palladium on charcoal ( $45 \mathrm{mg}, 10 \%$ ) in dichloromethane ( 5 mL ). The apparatus was evacuated five times and refilled with hydrogen (5 bar). After stirring under a 5 bar hydrogen atmosphere for 5 d at room temp., the mixture was filtered through celite and the solvent was evaporated in vacuo. The crude product was recrystallized from a boiling mixture of toluene and $n$-heptane yielding a yellow solid. Yield: 77 mg ( $0.11 \mathrm{mmol}, 77 \%$ ). M. p.: $225^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $600 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=8.85\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=\right.$ $8.3 \mathrm{~Hz}, 4,6-\mathrm{Ar}-\mathrm{H}-3,5$ ), 8.25 (dd, $1 \mathrm{H},{ }^{3} \mathrm{~J}=8.0 \mathrm{~Hz},{ }^{4} \mathrm{~J}=1.3 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-5$ ), 8.20 (br. s, $1 \mathrm{H}, 2-\mathrm{Ar}-\mathrm{H}-3$ ), $8.17\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} \mathrm{~J}=8.2 \mathrm{~Hz}, 2-\mathrm{Ar}{ }^{\prime}-\mathrm{H}-3,5\right), 8.16\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 4,6-\mathrm{Ar}\right.$ '-$H-3,5), 7.83\left(d, 4 H,{ }^{3} J=8.4 \mathrm{~Hz}, 4,6-A r^{\prime}-H-2,6\right), 7.70\left(d, 4 H,{ }^{3} J=8.3 \mathrm{~Hz}, 4,6-\mathrm{Ar}-\mathrm{H}-\right.$ 2,6), $7.64\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} \mathrm{~J}=8.2 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-2,6\right), 7.34\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.0 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-6\right), 3.97$ (s, 3H, 2-Ar' $-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 3.96 (s, 6H, 4,6-Ar'- $\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. ${ }^{13} \mathrm{C}$ NMR ( 150 MHz , $\left.\mathrm{CDCl}_{3}\right): \delta=171.4$ ( s , triazine- $-2-2$ ), 171.1 ( s , triazine- $-4,6$ ), 166.9 ( $\mathrm{s}, 4,6-$ Ar'- $\mathrm{CO}_{2} \mathrm{Me}$ ), 166.8 (s, 2-Ar'- $\mathrm{CO}_{2} \mathrm{Me}$ ), 144.6 (s, 2-Ar-C-2), 143.8 (s, 2-Ar'-C-1), 143.7 (s, 4,6-Ar-C-1), 143.7 (s, 4,6-Ar'-C-1), 136.8 (s, 2-Ar-C-4), 135.9 (s, 4,6-Ar-C-4),
130.9 (d, 2-Ar-C-6), 130.7 (d, 4,6-Ar'-C-3,5), 130.5 (s, 4,6-Ar'-C-4), 130.2 (d, 2-Ar'-C3,5), 130.0 (s, 2-Ar-C-1), 129.5 (d, 4,6-Ar-C-3,5), 129.3 (s, 2-Ar-C-4), 128.9 (d, 2-Ar'-C-2,6), 127.4 ( $\mathrm{d}, 4,6-\operatorname{Ar}-C-2,6$ ), 127.2 ( $\mathrm{d}, 4,6-\mathrm{Ar}^{\prime}-C-2,6$ ), 119.6 ( $\mathrm{d}, 2-\mathrm{Ar}-C-5$ ), 116.1 ( d , 2-Ar-C-3), 52.2 (q, 2- $\mathrm{Ar}^{\prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 52.2 (q, 4,6- $\mathrm{Ar}^{\prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. MS (EI, 70 eV ): $m / z=726(100)[M]^{+}$. IR (ATR): $\tilde{v}=3350\left(\mathrm{NH}_{2}\right), 3001($ aryl-H), 2954, $2846(\mathrm{CH}-$ val.), 1715 (C=O), 1607, 1582, 1507, 1419 (arom. C=C, arom. C=N), 1434 (CH-Def.) 1360 (C-N-val.), 812 (1,4-disubst. aryl, 1,3,4-trisubst. aryl) $\mathrm{cm}^{-1} . \mathrm{HRMS}$ (EI): $\mathrm{m} / \mathrm{z}=$ calcd. 726.2478 ; found 726.2465 ( $\Delta 1.78 \mathrm{ppm}$ ). Elemental analysis $\left(\mathrm{C}_{45} \mathrm{H}_{34} \mathrm{~N}_{4} \mathrm{O}_{6}\right)$ (726.77): calcd. C 74.73 H 7.71 N 4.72 ; $\left(\mathrm{C}_{45} \mathrm{H}_{34} \mathrm{~N}_{4} \mathrm{O}_{6} \cdot 1.3 \mathrm{H}_{2} \mathrm{O} \cdot 0.5 \mathrm{C}_{7} \mathrm{H}_{8}\right)$ (796.26): calcd. C 73.16 H 5.14 N 7.04 ; found C 73.27 H 5.46 N 7.35 .
$\underbrace{\infty}_{\infty} \infty$





## 2,4-Bis(4'-carboxy-biphenyl-4-yl)-6-(4'-carboxy-2-nitro-biphenyl-4-yl)-1,3,5triazine (17b)

Lithium hydroxide
monohydrate ( $5.12 \mathrm{~g}, 122$
mol) was added to 2-[4'-
(methoxycarbonyl)-2-nitro-
biphenyl-4-yl]-4,6-bis[4'-
(methoxycarbonyl)-
biphenyl-4-yl]-1,3,5-
triazine (16b, $\quad 3.30 \mathrm{~g}$,
4.36 mmol ) in a mixture of

tetrahydrofuran ( 430 mL ) and deionized water ( 45 mL ). After stirring for 48 h at room temp., the solvent was evaporated in vacuo, the yellow residue was dissolved in water and acidified with hydrochloric acid (3 M ). The yellow precipitate was filtered off and washed with deionized water and chloroform. Yield: 2.99 g ( $4.18 \mathrm{mmol}, 96 \%$ ). M. p.: $>300{ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR $\left(500 \mathrm{MHz}, \mathrm{DMSO}-\mathrm{d}_{6}\right): \delta=8.99\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=1.4 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-2\right)$, 8.77 (dd, $\left.1 \mathrm{H},{ }^{3} J=7.9 \mathrm{~Hz},{ }^{4} J=1.4 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-6\right), 8.58\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-\right.$ 2,6), $8.00\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 2,4-\mathrm{Ar}^{\prime}-H-3,5\right), 7.98\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6-\mathrm{Ar}^{\prime}-H-3,5\right)$, $7.82\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-3,5\right), 7.77\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 2,4-\mathrm{Ar}^{\prime}-H-2,6\right), 7.64$ (d, $1 \mathrm{H},{ }^{3} \mathrm{~J}=7.9 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-5$ ), $7.38\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6-\mathrm{Ar}^{\prime}-\mathrm{H}-2,6\right) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR (125 MHz, DMSO- $d_{6}$ ): $\delta=171.1$ (s, triazine- $C-2,4$ ), 169.1 (s, triazine- $C-6$ ), 167.4 (s, 2,4-Ar- $\mathrm{CO}_{2} \mathrm{H}$ ), 167.2 ( $\mathrm{s}, 6-\mathrm{Ar}-\mathrm{CO}_{2} \mathrm{H}$ ), 149.2 (d, 6-Ar-C-3), 143.7 (s, 2,4-Ar'-C-1), 143.4 (s, 2,4-Ar-C-4), 141.1 (s, 6-Ar'-C-1), 138.4 (s, 6-Ar-C-4), 136.7 (s, 6-Ar-C-1), 134.9 (s, 2,4-Ar-C-1), 132.9 (s, 6-Ar'-C-4), 132.7 (d, 6-Ar-C-6), 131.3 (s, 2,4-Ar'-C-4), 130.8 (d, 6-Ar-C-5), 130.4 (d, 2,4-Ar'-C-3,5), 130.0 (d, 2,4-Ar-C-3,5), 129.7 (d, 6-Ar'-

C-2,6), 129.0 (d, 2,4-Ar-C-2,6), 127.7 (6-Ar'-C-3,5), 127.4 (d, 2,4-Ar'-C-2,6), 124.3 (s, 6-Ar-C-2) ppm. MS (MALDI, CI-CCA): $m / z=715[\mathrm{M}+\mathrm{H}]^{+}$. IR (ATR): $\tilde{\circ}=3400(\mathrm{br} .$, OH), 3005 (aryl-H), 1714 (C=O), 1607, 1582, 1506, 1419 (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), 1510, $1316\left(\mathrm{NO}_{2}\right), 1359$ (C-N-val.), 813 (1,4-disubst. aryl, 1,3,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{42} \mathrm{H}_{26} \mathrm{~N}_{4} \mathrm{O}_{8}\right)$ (714.69): calcd. C 70.58 H 3.67 N 7.84 ; $\left(\mathrm{C}_{42} \mathrm{H}_{26} \mathrm{~N}_{4} \mathrm{O}_{8} \cdot 1.35 \mathrm{H}_{2} \mathrm{O}\right)(738.99)$ : calcd. C 68.69 H 3.91 N 7.58 ; found C 68.69 H 4.35 N 7.36.





## 2,4-Bis(4'-carboxy-biphenyl-4-yl)-6-(4'-carboxy-2-methoxy-biphenyl-4-yl]-1,3,5triazine (17c)

A suspension of
2,4-bis[4'-(methoxy-
carbonyl)biphenyl-4-yl]-6-
[2-methoxy-4'-
(methoxycarbonyl)-
biphenyl-4-yl]-1,3,5-
triazine (16c, $\quad 50 \mathrm{mg}$,
$67.5 \mu \mathrm{~mol}$ ) and lithium
hydroxide monohydrate

(101 mg, 2.41 mmol ) in a mixture of tetrahydrofuran ( 10 mL ) and deionized water $(1.5 \mathrm{~mL})$ was stirred at $60^{\circ} \mathrm{C}$ for 24 h . After removal of the tetrahydrofuran in vacuo, the aq. layer was diluted slightly and acidified with hydrochloric acid (3 M). The precipitate was filtered off and washed thoroughly with deionized water and chloroform. Yield: $47 \mathrm{mg}(67 \mu \mathrm{~mol},>99 \%)$. M. p.: $>300 \mathrm{mg} .{ }^{1} \mathrm{H}$ NMR ( 500 MHz , DMSO- $d_{6}$ ): $\delta=13.01$ (br. s, $3 \mathrm{H}, \mathrm{CO}_{2} H$ ), 8.74 (d, $4 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-3,5$ ), 8.36 ( $\left.m_{c}(d d), 1 H, J=7.9 \mathrm{~Hz},{ }^{4} J=1.2 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-5\right), 8.29\left(m_{\mathrm{c}}(\mathrm{d}), 1 \mathrm{H},{ }^{4} J=1.2 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-\right.$ 3), $8.05\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 2,4-\mathrm{Ar}^{\prime}-\mathrm{H}-3,5\right), 8.00\left(\mathrm{~d}, 2 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 6-\mathrm{Ar}^{\prime}-H-3,5\right), 7.94$ ( $\mathrm{d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 2,4-\mathrm{Ar}-\mathrm{H}-2,6$ ), $7.86\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 2,4-\mathrm{Ar}^{\prime}-\mathrm{H}-2,6\right.$ ), 7.67 (d, $\left.2 H,{ }^{3} J=8.4 \mathrm{~Hz}, 6-\mathrm{Ar}^{\prime}-H-2,6\right), 7.56\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=7.9 \mathrm{~Hz}, 6-\mathrm{Ar}-\mathrm{H}-6\right), 3.95\left(\mathrm{~s}, 3 \mathrm{H}, O C H_{3}\right)$ ppm. ${ }^{13} \mathrm{C}$ NMR ( $125 \mathrm{MHz}, \mathrm{DMSO}-d_{6}$ ): $\delta=171.0$ (s, triazine $-\mathrm{C}-2,4$ ), 170.9 (s, triazine-C-6), 167.6 (s, 6-Ar'- $\mathrm{CO}_{2} \mathrm{H}$ ), 167.5 (s, 2,4-Ar'- $\mathrm{CO}_{2} \mathrm{H}$ ), 156.9 (s, 6-Ar-C-2), 143.6 (br. s, 2,4-Ar-C-1, 2,4-Ar'-C-1), 142.1 (s, 6-Ar'-C-1), 136.9 (s, 6-Ar-C-4), 135.4 (s, 2,4-Ar-C4), 133.6 (s, 6-Ar-C-1), 131.7 (d, 6-Ar-C-6), 130.8 (s, 2,4-Ar'-C-4), 130.5 (d, 2,4-Ar'-C-
$3,5), 130.1$ (s, 6-Ar'-C-4), 129.9 (d, 6-Ar'-C-2,6), 129.8 (d, 2,4-Ar-C-3,5), 129.5 (d, 6-Ar'-C-3,5), 127.9 ( $\mathrm{d}, 2,4-\mathrm{Ar}-C-2,6$ ), 127.5 (d, 2,4-Ar'-C-2,6), 121.9 ( $\mathrm{d}, 6-\operatorname{Ar}-C-5$ ), 111.5 (d, 6-Ar-C-3), $56.1\left(\mathrm{q}, \mathrm{OCH}_{3}\right) \mathrm{ppm} . \mathrm{MS}$ (MALDI, CI-CCA): $m / z=700[\mathrm{M}+\mathrm{H}]^{+} . \mathrm{IR}$ (ATR): $\tilde{\sim}=3100(b r ., \mathrm{OH}), 1684(\mathrm{C}=\mathrm{O}), 1605,1581,1505,1417$ (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), 1357 (C-N-val.), 1231 (aryl- $\mathrm{OCH}_{3}$ ), 813 (1,4-disubst. aryl, 1,3,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{43} \mathrm{H}_{29} \mathrm{~N}_{3} \mathrm{O}_{7}\right)$ (699.70): calcd. C 73.81 H 4.18 N 6.01 ; $\left(\mathrm{C}_{43} \mathrm{H}_{29} \mathrm{~N}_{3} \mathrm{O}_{7} \cdot 0.4 \mathrm{H}_{2} \mathrm{O} \cdot 0.25 \mathrm{CHCl}_{3}\right)$ (738.99): calcd. C 70.51 H 4.11 N 5.70 ; found C 70.47 H 4.11 N 5.73.



## 2-(2-Amino-4'-carboxy-biphenyl-4-yl)-4,6-bis(4'-carboxy-biphenyl-4-yl)-1,3,5triazine (17d)

Lithium hydroxide monohydrate $\quad(101 \mathrm{mg}$, 2.41 mmol ) and 2-[2-amino-4'-carboxy-biphenyl-4-yl]-4,6-bis[4'-carboxy-biphenyl-4-yl]-1,3,5-triazine (16d, 50 mg , $69 \mu \mathrm{~mol})$ in a mixture of tetrahydrofuran ( 430 mL )

and deionized water ( 45 mL ) were stirred at $60^{\circ} \mathrm{C}$ for 48 h . After evaporation of the solvent in vacuo, the yellow residue was dissolved in deionized water and acidified with hydrochloric acid ( 3 m ). The yellow precipitate was filtered off and washed with deionized water and chloroform. Yield: $47 \mathrm{mg}(68 \mu \mathrm{~mol},>99 \%) . \mathrm{M} . \mathrm{p} .:>300{ }^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR (500 MHz, DMSO- $d_{6}$ ): $\delta=13.02$ (br. s, $3 \mathrm{H}, \mathrm{CO}_{2} H$ ), $8.81\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}\right.$, 4,6-Ar-H-3,5), $8.25\left(\mathrm{~d}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=1.6 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-3\right.$ ), $8.08\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 4,6-\mathrm{Ar}\right.$ '- $\mathrm{H}-$ $3,5), 8.05\left(d, 2 H,{ }^{3} J=8.4 \mathrm{~Hz}, 2-\mathrm{Ar}^{\prime}-H-3,5\right), 8.03^{*}\left(\mathrm{dd}, 1 \mathrm{H},{ }^{4} \mathrm{~J}=1.6 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-5\right), 8.01$ (d, 4H, $\left.{ }^{3} J=8.5 \mathrm{~Hz}, 4,6-\mathrm{Ar} '-H-2,6\right), 7.93\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 4,6-\mathrm{Ar}-\mathrm{H}-2,6\right.$ ), 7.66 (d, $\left.2 H,{ }^{3} J=8.4 \mathrm{~Hz}, 2-A r^{\prime}-H-2,6\right), 7.29\left(\mathrm{~d}, 1 \mathrm{H},{ }^{3} \mathrm{~J}=8.0 \mathrm{~Hz}, 2-\mathrm{Ar}-\mathrm{H}-6\right) \mathrm{ppm} .{ }^{*}$ signal overlaps with adjacent one unabling the determination of all coupling constants. ${ }^{13} \mathrm{C}$ NMR (125 MHz, DMSO- $d_{6}$ ): $\delta=171.1$ (s, triazine-C-2), 171.0 (s, triazine- $C-4,6$ ), 167.6 (s, 2-Ar'- $\mathrm{CO}_{2} \mathrm{H}$ ), 167.5 (s, 4,6-Ar'- $\mathrm{CO}_{2} \mathrm{H}$ ), 146.2 ( $\mathrm{s}, 2-\mathrm{Ar}-\mathrm{C}-2$ ), 144.0 (s, 2-Ar'-C1), 143.7 (s, 4,6-Ar-C-1), 143.7 (s, 4,6-Ar'-C-1), 136.1 (s, 2-Ar-C-4), 135.7 (s, 4,6-Ar-C-4), 131.2 (d, 2-Ar-C-6), 130.8 (s, 4,6-Ar'-C-4), 130.5 (d, 4,6-Ar'-C-3,5), 130.3 (d, 2-

Ar'-C-3,5), 129.9 (s, 2-Ar'-C-4), 129.8 ( $\mathrm{d}, 4,6-\mathrm{Ar}-C-3,5$ ), 129.4 (s, 2-Ar-C-1), 129.2 ( d , 2-Ar'-C-2,6), 127.9 (d, 4,6-Ar-C-2,6), 127.6 (d, 4,6-Ar'-C-2,6), 117.7 (d, 2-Ar-C-5), 116.2 (d, 2-Ar-C-3) ppm. MS (MALDI, CI-CCA): $m / z=686[\mathrm{M}+\mathrm{H}]^{+}$. IR (ATR): $\mathfrak{v}=$ 3100 (br., $\mathrm{OH}, \mathrm{NH}_{2}$ ), 1684 ( $\mathrm{C}=\mathrm{O}$ ), 1606, 1581, 1507, 1419 (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), $1561\left(\mathrm{NH}_{2}\right), 1434$ (CH-Def.) 1360 (C-N-val.), 810 (1,4-disubst. aryl, 1,3,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{42} \mathrm{H}_{18} \mathrm{~N}_{4} \mathrm{O}_{6}\right)$ (684.69): calcd. C 73.68 H 4.12 N 8.18 ; $\left(\mathrm{C}_{42} \mathrm{H}_{18} \mathrm{~N}_{4} \mathrm{O}_{6} \cdot 0.4 \mathrm{CHCl}_{3} \cdot 0.2 \mathrm{H}_{2} \mathrm{O}\right)$ (753.89): calcd. C 69.19 H 3.94 N 7.61 ; found C 69.41 H 3.91 N 7.31.




## 2,4-Bis(4'-carboxy-biphenyl-4-yl)-6-(4'-carboxy-2-hydroxy-biphenyl-4-yl)-1,3,5triazine (17e)

2,4-Bis[4'-(methoxy-
carbonyl)-biphenyl-4-yl]-
6-[2-methoxy-4'-
(methoxycarbonyl)-
biphenyl-4-yl]-1,3,5-
triazine (16c, 300 mg , $400 \mu \mathrm{~mol}$ ) and pyridinium hydrochloride $\quad(3.60 \mathrm{~g}$, 31.2 mmol ) were mixed
 and stirred for 12 h at $200^{\circ} \mathrm{C}$. After cooling to room temp., sodium hydroxide (2 M) was added to the solution until pH 14 was reached. After stirring for 12 h at $120^{\circ} \mathrm{C}$, the reaction mixture was acidified with conc. hydrochloric acid and the precipitate was filtered off. Washing with water and drying gave a dark brown solid. Yield: 143 $\mathrm{mg}(209 \mu \mathrm{~mol}, 52 \%)$. M. p.: $>300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{DMSO}-\mathrm{d}_{6}$ ): $\delta=12.99$ (br. s, $3 \mathrm{H}, \mathrm{COOH}), 10.18(\mathrm{~s}, 1 \mathrm{H}, \mathrm{OH}), 8.70\left(\mathrm{~d}, 4 \mathrm{H},{ }^{3} \mathrm{~J}=7.6 \mathrm{~Hz}, 2,4-\mathrm{Ar}-H-3,5\right), 8.33(\mathrm{~s}, 1 \mathrm{H}, 6-$ Ar-H-3), $8.18\left(\mathrm{~d},{ }^{3} \mathrm{~J}=7.8 \mathrm{~Hz}, 1 \mathrm{H}, 6-\mathrm{Ar}-\mathrm{H}-5\right), 8.05\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.0 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-\mathrm{Ar} \cdot-\mathrm{H}-3,5\right)$, 8.00 (d, $\left.{ }^{3} J=8.2 \mathrm{~Hz}, 2 \mathrm{H}, 6-\mathrm{Ar}^{\prime}-\mathrm{H}-3,5\right), 7.92$ ( $\mathrm{d},{ }^{3} \mathrm{~J}=7.6 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-\mathrm{Ar}-\mathrm{H}-2,6$ ), 7.86 (d, $\left.{ }^{3} J=8.0 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-A r^{\prime}-H-2,6\right), 7.74\left(\mathrm{~d},{ }^{3} J=8.2 \mathrm{~Hz}, 2 \mathrm{H}, 6-\mathrm{Ar}^{\prime}-H-2,6\right), 7.50(\mathrm{~d}$, ${ }^{3} J=7.8 \mathrm{~Hz}, 1 \mathrm{H}, 6-\mathrm{Ar}-\mathrm{H}-6$ ) ppm. ${ }^{13} \mathrm{C}$ NMR ( 125 MHz , DMSO-d ): $\delta=171.1$ (s, triazine- $C-6$ ), 170.9 ( s , triazine- $C-2,4$ ), 167.7 (s, 6-Ar'-COOH), 167.5 (s, 2,4-Ar'COOH), 155.3 (s, 6-Ar-C-2), 143.6 (s, 2,4-Ar-C-1, 2,4-Ar'-C-1), 142.6 (s, 6-Ar'-C-1), 136.6 ( $\mathrm{s}, 6-\mathrm{Ar}-\mathrm{C}-4$ ), 135.5 (s, 2,4-Ar-C-4), 131.4 (s, 6-Ar-C-1), 131.2 (d, 6-Ar-C-6), 130.8 (s, 2,4-Ar'-C-4), 130.4 (d, 2,4-Ar'-C-3,5), 129.8 (d, 6-Ar'-C-2,6), 129.7 (d, 2,4-

Ar-C-3,5), 129.7 (s, 6-Ar'-C-4), 129.5 (d, 6-Ar'-C-3,5), 127.8 (d, 2,4-Ar-C-2,6), 127.5 (d, 2,4-Ar'-C-2,6), 120.5 (d, 6-Ar-C-5), 116.5 (d, 6-Ar-C-3) ppm. MS (MALDI, CI$C C A): m / z=686[M+H]^{+} . I R(A T R): \tilde{\circ}=3050(\mathrm{OH}), 1681(\mathrm{C}=\mathrm{O}), 1606,1580,1562$, 1504 (arom. C=C, arom. C=N), 1418 (CH-Def.), 1360 (O-H-Def.), 1238, 1175, 1101 (C-O), 852, 813, 772 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{42} \mathrm{H}_{27} \mathrm{~N}_{3} \mathrm{O}_{7}\right)$ (685.18): calcd. C 73.57 H 3.97 N 6.13 ; $\left(\mathrm{C}_{42} \mathrm{H}_{27} \mathrm{~N}_{3} \mathrm{O}_{7} \cdot \mathrm{H}_{2} \mathrm{O}\right)$ (703.20): calcd. C 71.69 H 4.15 N 5.97 ; found C 71.47 H 3.95 N 5.91 .



## 2,4,6-Tris[4"-(methoxycarbonyl)-1,1':4',1'-terphenyl-4-yl]-1,3,5-triazine (19a)



A suspension of 2,4,6-tris(4-bromophenyl)-1,3,5-triazine (3a, $413 \mathrm{mg}, 758 \mu \mathrm{~mol}$ ), methyl $\quad$ 4'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1,1'-biphenyl-4-carboxylate (18, $\quad 1.00 \mathrm{~g}, \quad 2.96 \mathrm{mmol})$, potassium phosphate $(1.44 \mathrm{~g}, \quad 6.82 \mathrm{mmol}$ ) and tetrakis(triphenylphosphine)palladium(0) (79 mg, $68 \mu \mathrm{~mol}$ ) in a mixture of 1,4-dioxane $(70 \mathrm{~mL})$ and deionized water ( 15 mL ) was stirred under nitrogen for 2 d at $120^{\circ} \mathrm{C}$. Deionized water ( 50 mL ) was added to the reaction mixture. The precipitate was filtered off and washed with water. The crude product was recrystallized from chloroform. A colourless solid was obtained. Yield: 174 mg ( $185 \mu \mathrm{~mol}, 24 \%$ ). M. p.: $>300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR $\left(600 \mathrm{MHz}, \mathrm{CDCl}_{3}\right): \delta=8.90\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \mathrm{Ar}-\mathrm{H}-3,5\right), 8.15(\mathrm{~d}$, $\left.{ }^{3} J=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \mathrm{Ar}{ }^{\prime \prime}-H-3,5\right), 7.88\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \mathrm{Ar}-\mathrm{H}-2,6\right), 7.83\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}\right.$,
$6 \mathrm{H}, \mathrm{Ar}$ '-H-2,6), 7.78 ( $\mathrm{d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \operatorname{Ar}{ }^{\prime}-\mathrm{H}-3,5$ ), $7.74\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \mathrm{Ar}^{\prime \prime}-\mathrm{H}-\right.$ 2,6), $3.97\left(\mathrm{~s}, 9 \mathrm{H}, \mathrm{CO}_{2} \mathrm{CH}_{3}\right) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR ( $150 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=171.4$ (s, triazine-$\mathrm{C}-2,4,6$ ), $167.0\left(\mathrm{~s}, \mathrm{CO}_{2} \mathrm{CH}_{3}\right), 145.0\left(\mathrm{~s}, \mathrm{Ar}^{\prime \prime}-\mathrm{C}-1\right.$ ), 144.4 ( $\mathrm{s}, \mathrm{Ar}-\mathrm{C}-1$ ), 140.1 ( $\mathrm{s}, \mathrm{Ar}^{\prime}-\mathrm{C}-1$ ), 139.6 ( $\mathrm{s}, \mathrm{Ar}^{\prime}-C-4$ ), 135.5 (s, Ar-C-4), 130.2 (d, Ar"-C-3,5), 129.6 (d, Ar-C-3,5), 129.1 ( $\mathrm{s}, \operatorname{Ar}{ }^{\prime \prime}-C-4$ ), 127.8 ( $\mathrm{d}, \mathrm{Ar}^{\prime}-C-2,3,5,6$ ), 127.3 ( $\mathrm{d}, \operatorname{Ar}-C-2,6$ ), 127.0 ( $\mathrm{s}, \mathrm{Ar}^{\prime \prime}-C-2,6$ ), 52.2 (q, $\mathrm{CH}_{3}$ ) ppm. MS (MALDI, CI-CCA): $m / z=940[\mathrm{M}+\mathrm{H}]^{+} . \mathrm{IR}(\mathrm{ATR}): \tilde{\sim}=2950(\mathrm{CH}-$ val.), 1716 ( $\mathrm{C}=\mathrm{O}$ ), 1606, 1581, 1552, 1505 (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), 1434 (CH-Def.), 1361 (C-N-val.), 1272, 1184, 1108 (C-O), 808, 773 (1,4-disubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{63} \mathrm{H}_{45} \mathrm{~N}_{3} \mathrm{O}_{6}\right)(939.33)$ : calcd. C 80.49 H 4.82 N 4.47 ; found C 80.15 H 4.74 N 4.27.

-171.39
-166.98

145.01
144.44
10.14
139.62
135.47
$\int_{130.24}^{129.63}$
129.14
127.83
127.29
126.98
OZ'ZS-


## 2-[4"-(Methoxycarbonyl)-2-nitro-1,1':4',1"-terphenyl-4-yl]-4,6-bis[4"-

 (methoxycarbonyl)-1,1':4',1'-terphenyl-4-yl]-1,3,5-triazine (19b)

A mixture of 2-(4-bromo-3-nitrophenyl)-4,6-bis(4-bromophenyl)-1,3,5-triazine (3b, $500 \mathrm{mg}, \quad 846 \mu \mathrm{~mol}), \quad$ methyl $\quad 4$ '-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1,1'-biphenyl-4-carboxylate $(18,1.12 \mathrm{~g}, 3.30 \mathrm{mmol})$, potassium phosphate $(1.62 \mathrm{~g}$, 7.61 mmol ) and [1,1'-bis(diphenylphosphino)ferrocene]dichloropalladium(II) ( 62.0 mg , $84.6 \mu \mathrm{~mol})$ in a mixture of 1,4 -dioxane ( 100 mL ) and deionized water ( 10 mL ) was stirred under nitrogen for 3 d at $120^{\circ} \mathrm{C}$. The solvent was evaporated in vacuo, the residue was dissolved in chloroform (2L) and washed with deionized water (3 x 250 mL ) and brine ( 250 mL ). The organic layer was evaporated in vacuo until 1 L was left. Charcoal ( 5 g ) was added and the solution was heated to $80^{\circ} \mathrm{C}$. The hot suspension was filtered through celite and the colourless filtrate was evaporated in vacuo. After
the addition ethyl acetate ( 50 mL ), the undissolved solid was filtrated and dried to obtain the slightly yellow product. Yield: $132 \mathrm{mg}(134 \mu \mathrm{~mol}, 16 \%)$. M. p.: $>300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR (500 MHz, $\mathrm{CDCl}_{3}$ ): $\delta=9.28\left(\mathrm{~d},{ }^{4} \mathrm{~J}=1.4 \mathrm{~Hz}, 1 \mathrm{H}, 2-\mathrm{Ar}-\mathrm{H}-3\right.$ ), 9.06 (dd, $\left.{ }^{3} J=8.1 \mathrm{~Hz},{ }^{4} J=1.4 \mathrm{~Hz}, 1 \mathrm{H}, 2-\mathrm{Ar}-\mathrm{H}-5\right), 8.90\left(\mathrm{~d},{ }^{3} J=8.5 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}-\mathrm{H}-3,5\right), 8.15$ (d, $\left.{ }^{3} J=8.5 \mathrm{~Hz}, 6 \mathrm{H}, 2,4,6-\mathrm{Ar}^{\prime}-H-3,5\right), 7.90\left(\mathrm{~d},{ }^{3} J=8.5 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}-H-2,6\right), 7.84(\mathrm{~d}$, $\left.{ }^{3} J=8.5 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}^{\prime}-H-2,6\right), 7.78\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.5 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}^{\prime}-H-3,5\right), 7.77-7.70$ (m, 9H, 2,4,6-Ar"-H-2,6, 2-Ar-H-6, 2-Ar'-H-3,5), 7.53 (d, ${ }^{3} J=8.3 \mathrm{~Hz}, 2 \mathrm{H}, 2-\mathrm{Ar}^{\prime}-H-2,6$ ), 3.97 (s, $9 \mathrm{H}, \mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. ${ }^{13} \mathrm{C}$ NMR ( $125 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=171.5$ (s, triazine- $\mathrm{C}-4,6$ ), 169.5 (s, triazine- $\mathrm{C}-2$ ), 166.9 (s, $\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 149.9 (s, 2-Ar- $\mathrm{C}-2$ ), 144.9 (s, 4,6-Ar-C-1), 144.8 (s, 2,4,6-Ar"'-C-1), 140.5 (s, 2-Ar'-C-4), 139.8 (s, 4,6-Ar'-C-1), 139.7 (s, 4,6-Ar'-$C-4$ ), 139.1 (s, 2-Ar-C-1), 137.6 (s, 2-Ar-C-4), 136.5 (s, 2-Ar'-C-1), 134.9 (s, 4,6-Ar-C4), 132.4 (d, 2-Ar-C-6), 132.0 (d, 2-Ar-C-5), 130.2 (d, 2,4,6-Ar"-C-3,5), 129.7 (d, 4,6-Ar-C-3,5), 129.1 (s, 2,4,6-Ar"-C-4), 128.4 (d, 2-Ar'-C-2,6), 127.9 (d, 4,6-Ar'-C-3,5), 127.8 (d, 4,6-Ar'-C-2,6), 127.4 (d, 4,6-Ar-C-2,6), 127.1 (d, 2-Ar'-C-3,5), 126.9 (d, 2,4,6-Ar"-C-2,6), 124.6 (d, 2-Ar-C-3), 52.1 ( $\mathrm{q}, \mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. MS (MALDI, CI-CCA): $m / z=986[\mathrm{M}+\mathrm{H}]^{+} . \mathrm{IR}(\mathrm{ATR}): \tilde{\mathrm{o}}=2952(\mathrm{CH}$-val.), $1718(\mathrm{C}=\mathrm{O})$ ), 1606, 1572 (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), 1508 (asymm. $\mathrm{N}=\mathrm{O}$ ), 1400, 1433 ( $\mathrm{CH}-$ def.), 1357 (symm. $\mathrm{N}=\mathrm{O}$ ), 1274, 1184, 1108 (C-O), 810, 771 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{63} \mathrm{H}_{44} \mathrm{~N}_{4} \mathrm{O}_{8}\right)$ (985.05): calcd. C 76.82 H 4.50 N 5.69 ; found C 77.04 H 4.83 N 5.38.


## 2,4-Bis[4"-(methoxycarbonyl)-1,1':4',1'-terphenyl-4-yl]-6-[2-methoxy-4"-(methoxycarbonyl)-1,1':4',1'-terphenyl-4-yl]-1,3,5-triazine (19c)



A mixture of 2-(4-bromo-3-methoxyphenyl)-4,6-bis(4-bromophenyl)-1,3,5-triazine (3c, $102 \mathrm{mg}, \quad 180 \mu \mathrm{~mol}), \quad$ methyl 4 '-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1,1'-biphenyl-4-carboxylate (18, $269 \mathrm{mg}, 796 \mu \mathrm{~mol}$ ), potassium phosphate ( 259 mg , $1.22 \mathrm{mmol})$ and tetrakis(triphenylphosphine)palladium(0) (19.4 mg, $17.0 \mu \mathrm{~mol}$ ) in a mixture of 1,4-dioxane ( 15 mL ) and deionized water ( 1 mL ) was stirred under nitrogen for 3 d at $100^{\circ} \mathrm{C}$. The solvent was evaporated in vacuo, the residue was dissolved in chloroform ( 50 mL ) and washed with deionized water ( $3 \times 25 \mathrm{~mL}$ ) and brine ( 25 mL ). The organic layer was dried with magnesium sulfate and the solvent was evaporated in vacuo. The crude product was recrystallized from a mixture of toluene and $n$-heptane. A colourless solid was obtained. Yield: $140 \mathrm{mg}(144 \mu \mathrm{~mol}$,
$81 \%$ ). M. p.: > $300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( $500 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=8.87\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-\right.$ Ar-H-3,5), $8.51\left(\mathrm{dd},{ }^{3} J=7.9 \mathrm{~Hz},{ }^{4} J=1.5 \mathrm{~Hz}, 1 \mathrm{H}, 6-\mathrm{Ar}-H-5\right), 8.44\left(\mathrm{~d},{ }^{4} J=1.5 \mathrm{~Hz}, 1 \mathrm{H}\right.$, $6-\mathrm{Ar}-\mathrm{H}-3$ ), $8.14\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-\mathrm{Ar}^{\prime \prime}-\mathrm{H}-3,5\right), 8.13\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 2 \mathrm{H}, 6-\mathrm{Ar}^{\prime \prime}-\mathrm{H}-\right.$ $3,5), 7.87\left(d,{ }^{3} J=8.4 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-\mathrm{Ar}-H-2,6\right), 7.82\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.4 \mathrm{~Hz}, 4 \mathrm{H}, 2,4-\mathrm{Ar} \cdot-\mathrm{H}-2,6\right)$, 7.78-7.71 (m, 14H, 2,4,6-Ar'-H-3,5, 6-Ar'-H-2,6, 2,4,6-Ar''-H-2,6), 7.59 (d, $\left.{ }^{3} J=7.9 \mathrm{~Hz}, 1 \mathrm{H}, 6-\mathrm{Ar}-\mathrm{H}-6\right), 4.08\left(\mathrm{~s}, 3 \mathrm{H}, \mathrm{OCH}_{3}\right), 3.962\left(\mathrm{~s}, 6 \mathrm{H}, 2,4-\mathrm{Ar}^{\prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}\right), 3.960$ (s, 3H, 6-Ar"- $\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. ${ }^{13} \mathrm{C}$ NMR ( $125 \mathrm{MHz}, \mathrm{CDCl}_{3}$ ): $\delta=171.32$ (s, triazine- C 2,4), 171.29 ( $s$, triazine- -6 -6), 167.0 ( $s, 6-\mathrm{Ar}^{\prime \prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 166.9 (s, 2,4- $\mathrm{Ar}^{\prime \prime}-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 156.9 (s, 6-Ar-C-2), 145.3 (s, 6-Ar"-C-1), 144.9 (s, 2,4-Ar"-C-1), 144.4 (s, 2,4-Ar"-C4), 140.1 (s, 2,4-Ar-C-1), 139.6 (s, 2,4-Ar'-C-4), 139.0 (s, 2,4-Ar'-C-1), 136.9 (s, 6-Ar'-$C-1$ ), 135.8 (s, 6-Ar-C-4), 135.3 (s, 2,4-Ar-C-4), 134.2 (s, 6-Ar-C-1), 130.9 (d, 6-Ar-C6 ), 130.21 ( $\mathrm{d}, 2,4$-Ar"-C-3,5), 130.16 ( $\mathrm{d}, 6$ - $\mathrm{Ar}^{\prime \prime}-C-3,5$ ), 130.1 (d, 2,4-Ar-C-3,5), 129.0 (s, 6-Ar'"-C-4), 128.2 (d, 6-Ar'-C-2,6), 127.8 (d, 2,4-Ar'-C-3,5), 127.76 (d, 2,4-Ar'-C2,6), 127.2 (d, 2,4-Ar-C-2,6), 127.0 (d, 6-Ar'-C-3,5), 126.9 (d, 2,4,6-Ar"-C-2,6, 6-Ar'-C-4), 122.0 (d, 6-Ar-C-5), 111.3 (d, 6-Ar-C-3), 55.9 (q, $\mathrm{OCH}_{3}$ ), 52.2 (q, 2,4-Ar"$\mathrm{CO}_{2} \mathrm{CH}_{3}$ ), 52.1 (q, 6-Ar" $-\mathrm{CO}_{2} \mathrm{CH}_{3}$ ) ppm. MS (MALDI, CI-CCA): $m / z=971[\mathrm{M}+\mathrm{H}]^{+} . \mathrm{IR}$ (ATR): $\tilde{\sim}=3030,3001$ (aryl-H), 2949, 2842 (CH-val.), 1715 (C=O), 1605, 1582, 1505, 1403 (arom. C=C, arom. C=N), 1434 (CH-Def.), 1360 (C-N-val.), 1272 (Aryl$\mathrm{OCH}_{3}$ ), 807 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{64} \mathrm{H}_{47} \mathrm{~N}_{3} \mathrm{O}_{7}\right)(970.07)$ : calcd. C 79.24 H 4.88 N 4.33 ; found C 79.10 H 5.11 N 4.02 .


## 2,4,6-Tris(4"-carboxy-1,1':4',1'-terphenyl-4-yl)-1,3,5-triazine (20a)



Lithium hydroxide monohydrate ( $733 \mathrm{mg}, 17.5 \mathrm{mmol}$ ) was added to $2,4,6$-tris[4"-(methoxycarbonyl)-1, $1^{\prime}: 4^{\prime}, 1^{\prime \prime}$-terphenyl-4-yl]-1,3,5-triazine (19a, $587 \mathrm{mg}, 624 \mu \mathrm{~mol}$ ) in a mixture of tetrahydrofuran $(100 \mathrm{~mL})$ and deionized water $(10 \mathrm{~mL})$. After stirring for 24 h at $120^{\circ} \mathrm{C}$, the solvent was evaporated in vacuo and enough sodium hydroxide ( 2 m ) was added to the residue to dissolved it. Then it was acidified with conc. hydrochloric acid. The precipitate was filtered off and washed with deionized water and chloroform. A white solid was obtained. Yield: $555 \mathrm{mg}(618 \mu \mathrm{~mol}, 99 \%)$. M. p.: $>300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR $\left(600 \mathrm{MHz}, \mathrm{DMSO}-\mathrm{d}_{6}\right): \delta=8.89\left(\mathrm{~d}, 6 \mathrm{H},{ }^{3} \mathrm{~J}=8.1 \mathrm{~Hz}, \mathrm{Ar}-\mathrm{H}-3,5\right), 8.10$ - 8.05 ( $\mathrm{m}, 12 \mathrm{H}, \operatorname{Ar}{ }^{\prime \prime}-\mathrm{H}-3,5, \mathrm{Ar}-H-2,6$ ), $7.99\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \mathrm{Ar}^{\prime}-\mathrm{H}-2,6\right.$ ), 7.94 (d, $\left.{ }^{3} J=8.3 \mathrm{~Hz}, 6 \mathrm{H}, \operatorname{Ar}{ }^{\prime}-\mathrm{H}-3,5\right), 7.91\left(\mathrm{~d},{ }^{3} \mathrm{~J}=7.9 \mathrm{~Hz}, 6 \mathrm{H}, \mathrm{Ar}{ }^{\prime}-\mathrm{H}-2,6\right) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR (150 MHz, DMSO- $\mathrm{d}_{6}$ ): $\delta=171.2$ (s, triazine- $C-2,4,6$ ), 167.6 (s, COOH), 144.1 (s, Ar-C-1),
 Ar"-C-4), 130.5 (d, Ar"-C-3,5), 129.9 ( $\mathrm{d}, \operatorname{Ar}-C-3,5$ ), 128.1 ( $\mathrm{d}, \mathrm{Ar}^{\prime}-C-2,3,5,6$ ), 127.6 ( d , Ar-C-2,6), 127.2 (s, Ar"-C-2,6) ppm. MS (MALDI, CI-CCA): $m / z=898[\mathrm{M}+\mathrm{H}]^{+} . \mathrm{IR}$ (ATR): $\tilde{v}=1683(\mathrm{C}=\mathrm{O}), 1605,1580,1504$ (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), 1404 (CHDef.), 1359 (C-N-val.), 1283, 1182 (C-O), 808, 773 (1,4-disubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{60} \mathrm{H}_{39} \mathrm{~N}_{3} \mathrm{O}_{6}\right)$ (897.28): calcd. C $80.25 \mathrm{H} 4.38 \mathrm{~N} \mathrm{4.68;}\left(\mathrm{C}_{60} \mathrm{H}_{39} \mathrm{~N}_{3} \mathrm{O}_{6} \cdot 0.66\right.$ $\left.\mathrm{H}_{2} \mathrm{O}\right)$ (909.29): calcd. C 79.19 H 4.47 N 4.62 ; found C 78.97 H 4.57 N 4.66.




| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 200 | 190 | 180 | 170 | 160 | 150 | 140 | 130 | 120 | 110 | 100 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 |

## 2-(4"-Carboxy-2-nitro-1,1',4',1'"-terphenyl-4-yl)-4,6-bis(4'"-carboxy-1,1':4',1'"-terphenyl-4-yl)-1,3,5-triazine (20b)



To a mixture of 1,4-dioxane ( 10 mL ) and sodium hydroxide ( $6 \mathrm{M}, 50 \mathrm{~mL}$ ) was added 2-[4"-(methoxycarbonyl)-2-nitro-1, $1^{\prime}: 4^{\prime}, 1^{\prime \prime}$-terphenyl-4-yl]-4,6-bis[4"-
(methoxycarbonyl)-1,1':4',1"-terphenyl-4-yl]-1,3,5-triazine (19b, $93 \mathrm{mg}, \quad 94 \mu \mathrm{~mol})$. After stirring for 24 h at $120^{\circ} \mathrm{C}$ the solvent was evaporated in vacuo. The residue was dissolved in 10 mL water and acidified with conc. hydrochloric acid. The precipitate was filtered off and washed with deionized water. A yellow solid was obtained. Yield: $70 \mathrm{mg}(74 \mu \mathrm{~mol}, 79 \%)$. M. p.: > $300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H}$ NMR ( 600 MHz , DMSO$d_{6}$ ): $\delta=13.0$ (br.s, $3 H, C O O H$ ), $9.27\left(\mathrm{~d},{ }^{4} J=1.3 \mathrm{~Hz}, 1 \mathrm{H}, 2-\mathrm{Ar}-\mathrm{H}-2\right.$ ), $9.10(\mathrm{~d}$, $\left.{ }^{3} J=8.0 \mathrm{~Hz}, 1 \mathrm{H}, 2-\mathrm{Ar}-\mathrm{H}-5\right), 8.90\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}-\mathrm{H}-3,5\right), 8.12-8.04(\mathrm{~m}$, $\left.10 \mathrm{H}, 2,4,6-\mathrm{Ar}^{\prime \prime}-\mathrm{H}-3,5,4,6-\mathrm{Ar}-\mathrm{H}-2,6\right), 7.98\left(\mathrm{~d},{ }^{3} \mathrm{~J}=8.3 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}^{\prime}-\mathrm{H}-2,6\right), 7.96-$
7.88 (m, 13H, 4,6-Ar'-H-3,5, 2,4,6-Ar"-H-2,6, 2-Ar-H-6, 2-Ar'-H-3,5), 7.60 (d, $\left.{ }^{3} J=8.1 \mathrm{~Hz}, 2 \mathrm{H}, 2-\mathrm{Ar}^{\prime}-\mathrm{H}-2,6\right) \mathrm{ppm} .{ }^{13} \mathrm{C}$ NMR (150 MHz, DMSO-d $\left.\mathrm{d}_{6}\right): \delta=170.9$ (s, triazine- $C-4,6$ ), 169.0 ( s , triazine- $C-2$ ), $167.2\left(\mathrm{~s}, \mathrm{CO}_{2} \mathrm{H}\right.$ ), 149.5 ( $\mathrm{s}, 2-\mathrm{Ar}-\mathrm{C}-2$ ), $143.9(\mathrm{~s}$, 4,6-Ar-C-1), 143.3 (s, 2,4,6-Ar'"-C-1), 139.3 (s, 2-Ar'-C-4), 138.8 (s, 4,6-Ar'-C-1), 138.7 (s, 4,6-Ar'-C-4), 138.0 (s, 2-Ar-C-1), 137.5 (s, 2-Ar-C-4), 136.3 (s, 2-Ar'-C-1), 134.1 (s, 4,6-Ar-C-4), 133.7 (d, 2-Ar-C-6), 132.6 (d, 2-Ar-C-5), 130.4 (d, 2,4,6-Ar"-C3,5 ), 130.0 (d, 4,6-Ar-C-3,5), 129.8 (s, 2,4,6-Ar"-C-4), 129.0 (d, 2-Ar'-C-2,6), 128.0 (d, 4,6-Ar'-C-2,6), 127.9 (d, 4,6-Ar'-C-3,5), 127.6 (d, 4,6-Ar-C-2,6), 127.3 (d, 2-Ar'-C3,5 ), 127.3 ( $\mathrm{d}, 2,4,6-\mathrm{Ar}$ "-C-2,6), 124.4 (d, 2-Ar-C-3) ppm. MS (MALDI, CI-CCA): m/z $=944[\mathrm{M}+\mathrm{H}]^{+} . \operatorname{IR}(A T R): \tilde{v}=3031$ (aryl-H), $1684(\mathrm{C}=\mathrm{O}), 1605$, 1571 (arom. $\mathrm{C}=\mathrm{C}$, arom. $\mathrm{C}=\mathrm{N}$ ), 1506 (asymm. $\mathrm{N}=\mathrm{O}$ ), 1424, 1401 (CH-Def.), 1356 (symm. $\mathrm{N}=\mathrm{O}$ ), 1272, 1182, 1110 (C-O), 811, 773 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{60} \mathrm{H}_{38} \mathrm{~N}_{4} \mathrm{O}_{8}\right)$ (942.97): calcd. C 76.42 H 4.06 N 5.94 ; $\left(\mathrm{C}_{60} \mathrm{H}_{38} \mathrm{~N}_{4} \mathrm{O}_{8} \cdot 0.5 \mathrm{H}_{2} \mathrm{O}\right)$ (951.96): calcd. C 75.70 H 4.13 N 5.89 ; found C 75.43 H 4.06 N 5.87 .



## 2-(4"-Carboxy-2-hydroxy-1,1':4',1"-terphenyl-4-yl)-4,6-bis(4"-carboxy-1,1':4',1"-terphenyl-4-yl)-1,3,5-triazine (20e)



2,4-Bis[4"-(methoxycarbonyl)-(1,1':4',1"-terphenyl)-4-yl]-6-[2-methoxy-4"-(methoxycarbonyl)-(1, $1^{\prime}: 4^{\prime}, 1^{\prime \prime}$-terphenyl)-4-yl]-1,3,5-triazine (19c, $109 \mathrm{mg}, 113 \mu \mathrm{~mol}$ ) and pyridinium hydrochloride $(1.80 \mathrm{~g}, 15.6 \mathrm{mmol})$ were mixed and stirred for 12 h at $200^{\circ} \mathrm{C}$. After cooling to room temp., sodium hydroxide ( 2 M ) was added to the solution until pH 14 was reached. The reaction mixture was stirred for 12 h at $120^{\circ} \mathrm{C}$ before it was acidified with conc. hydrochloric acid and the resulting precipitate was filtered off. Washing with water and drying gave a dark red solid. Yield: $64 \mathrm{mg}(70.0$ $\mu \mathrm{mol}, 62 \%$ ). M. p.: $>300^{\circ} \mathrm{C} .{ }^{1} \mathrm{H} \operatorname{NMR}\left(600 \mathrm{MHz}, \mathrm{DMSO}-\mathrm{d}_{6}\right): \delta=12.99$ (br.s, 3 H , COOH ), $10.09(\mathrm{~s}, 1 \mathrm{H}, \mathrm{OH}), 8.63\left(\mathrm{~d},{ }^{3} \mathrm{~J}=7.7 \mathrm{~Hz}, 4 \mathrm{H}, 4,6\right.$-Ar-H-3,5), $8.31(\mathrm{~s}, 1 \mathrm{H}, 2$-Ar-

H-3), 8.11 (d, ${ }^{3} J=7.6 \mathrm{~Hz}, 1 \mathrm{H}, 2-\mathrm{Ar}-\mathrm{H}-5$ ), $8.06-7.99$ (m, 6H, 4,6-Ar"-H-3,5, 2-Ar"-H3,5), 7.86 (d, ${ }^{3} \mathrm{~J}=7.7 \mathrm{~Hz}, 4 \mathrm{H}, 4,6-\mathrm{Ar}-\mathrm{H}-2,6$ ), $7.82-7.75$ (m, 14H, 2-Ar'"-H-2,6, 4,6-Ar'-$2,3,5,6,4,6-$ Ar'' $^{\prime}-2,6$ ), $7.74-7.68$ (m, 4H, 2-Ar'- $\mathrm{H}-2,3,5,6$ ), 7.44 (d, ${ }^{3} \mathrm{~J}=7.6 \mathrm{~Hz}, 1 \mathrm{H}, 2-$ Ar-H-6) ppm. ${ }^{13} \mathrm{C}$ NMR (150 MHz, DMSO-d $\mathrm{d}_{6}$ ): $\delta=170.5$ (s, triazine-C-2), 170.4 (s, triazine-C-4,6), 167.2 (s, 2-Ar"- COOH ), 167.1 (s, 4,6-Ar"- COOH ), 154.8 (s, 2-Ar-C-2), 143.9 (s, 2-Ar"-C-1), 143.4 (s, 4,6-Ar-C-1), 143.3 (s, 4,6-Ar"-C-1), 138.8 (s, 4,6-Ar'-C1), 138.6 (s, 4,6-Ar'-C-4), 137.6 (s, 2-Ar'-C-4), 137.5 (s, 2-Ar'-C-1), 135.7 (s, 2-Ar-C4), 134.6 ( $\mathrm{s}, 4,6-\mathrm{Ar}-\mathrm{C}-4$ ), 131.4 ( $\mathrm{s}, 2-\mathrm{Ar}$ "- $-\mathrm{C}-4$ ), 131.2 ( $\mathrm{s}, 2-\mathrm{Ar}-C-1$ ), 130.4 (d, 2-Ar-C6 ), 130.0 (d, 2-Ar"-C-3,5, 4,6-Ar"-C-3,5), 129.8 (d, 2-Ar'-C-2,6), 129.6 (s, 4,6-Ar"-C4), 129.1 (d, 4,6-Ar-C-3,5), 127.5 (d, 2-Ar"-C-2,6, 4,6-Ar"-C-2,6), 126.8 (d, 4,6-Ar-C2,6), 126.6 (d, 4,6-Ar'-C-2,3,5,6), 126.4 (d, 2-Ar'-C-3,5), 120.0 (d, 2-Ar-C-5), 115.9 (d, 2-Ar-C-3) ppm. MS (MALDI, CI-CCA): $m / z=914[\mathrm{M}+\mathrm{H}]^{+}$. IR (ATR): $\check{\sim}=2925(\mathrm{O}-\mathrm{H})$, 1682 (C=O), 1605, 1572, 1504 (arom. C=C, arom. C=N), 1407 (CH-Def.), 1361 (O-HDef.), 1251, 1180, 1100 (C-O), 808, 773 (1,4-disubst. aryl, 1,2,4-trisubst. aryl) $\mathrm{cm}^{-1}$. Elemental analysis $\left(\mathrm{C}_{60} \mathrm{H}_{39} \mathrm{~N}_{3} \mathrm{O}_{7}\right)$ (913.28): calcd. C 78.35 H 4.30 N 4.60 ; $\left(\mathrm{C}_{60} \mathrm{H}_{39} \mathrm{~N}_{3} \mathrm{O}_{7} \cdot 2.5 \mathrm{H}_{2} \mathrm{O}\right)(958.31)$ : calcd. C 75.14 H 4.62 N 4.38 ; found C 75.23 H 4.29 N 4.35 .






## Calculations

## BTB (benzene-1,3,5-tribenzoic acid)

The BTB molecule was optimized using Gaussian ${ }^{B} 09\left[{ }^{6}\right]$ with B3LYP//6-31G*.

Energy: -935705.0864025
$\begin{array}{llll}C & -1.32248 & -0.43370 & -0.01257\end{array}$
$\begin{array}{llll}C & -1.05177 & 0.94191 & -0.01132\end{array}$
$\begin{array}{llll}C & 0.28557 & 1.36279 & -0.01013\end{array}$
$\begin{array}{llll}C & 1.34177 & 0.44074 & -0.00996\end{array}$
$\begin{array}{llll}C & 1.03767 & -0.92784 & -0.01051\end{array}$
$\begin{array}{llll}\text { C } & -0.28902 & -1.38108 & -0.01175\end{array}$
$\begin{array}{llll}H & 0.50783 & 2.42534 & -0.00981\end{array}$
$\begin{array}{llll}H & 1.84625 & -1.65211 & -0.01107\end{array}$
$\begin{array}{llll}C & 2.75334 & 0.90349 & -0.01055\end{array}$
$\begin{array}{llll}C & 3.14559 & 2.02476 & 0.74141\end{array}$
$\begin{array}{llll}C & 4.46639 & 2.46146 & 0.74298\end{array}$
$\begin{array}{llll}C & 5.43222 & 1.78183 & -0.01149\end{array}$
$\begin{array}{llll}C & 5.05345 & 0.66267 & -0.76452\end{array}$
$\begin{array}{llll}C & 3.73277 & 0.23106 & -0.76360\end{array}$
$\begin{array}{llll}\mathrm{H} & 3.44801 & -0.62099 & -1.37383\end{array}$
$\begin{array}{llll}\mathrm{H} & 2.41210 & 2.54322 & 1.35190\end{array}$
$\begin{array}{llll}\mathrm{H} & 4.75505 & 3.32301 & 1.33479\end{array}$
$\begin{array}{llll}\mathrm{H} & 5.80830 & 0.14997 & -1.35162\end{array}$
$\begin{array}{llll}\text { C } & -0.59388 & -2.83506 & -0.01234\end{array}$
$\begin{array}{llll}\text { C } & -1.66500 & -3.34777 & -0.76629\end{array}$

| C | 0.18032 | -3.73462 | 0.74129 |
| :---: | :---: | :---: | :---: |
| C | -0.10190 | -5.09678 | 0.74396 |
| C | -1.17237 | -5.59414 | -0.01145 |
| C | -1.95124 | -4.70739 | -0.76651 |
| H | -2.25991 | -2.67566 | -1.37769 |
| H | -2.77180 | -5.10540 | -1.35441 |
| H | 0.99544 | -3.35799 | 1.35220 |
| H | 0.49916 | -5.77694 | 1.33719 |
| C | -2.15862 | 1.93276 | -0.01160 |
| C | -2.06575 | 3.11893 | -0.76197 |
| C | -3.10062 | 4.04607 | -0.76230 |
| C | -4.26001 | 3.81213 | -0.01119 |
| C | -4.36575 | 2.63434 | 0.74086 |
| C | -3.32654 | 1.70960 | 0.73856 |
| H | -3.40889 | 0.81385 | 1.34711 |
| H | -5.25663 | 2.45183 | 1.33147 |
| H | -1.18473 | 3.30043 | -1.37051 |
| H | -3.03402 | 4.95729 | -1.34761 |
| C | -5.33614 | 4.83500 | -0.04728 |
| 0 | -5.29134 | 5.87119 | -0.68044 |
| 0 | -6.41155 | 4.50300 | 0.71394 |
| C | 6.85643 | 2.20110 | -0.04824 |
| 0 | 7.73018 | 1.64472 | -0.68353 |
| H | -7.04181 | 5.23992 | 0.61211 |
| H | -2.35372 | -0.77267 | -0.01424 |


| C | -1.52117 | -7.03727 | -0.04713 |
| :--- | :--- | :--- | :--- |
| O | -2.43930 | -7.51650 | -0.68272 |
| O | -0.69892 | -7.80259 | 0.71735 |
| H | -1.02248 | -8.71666 | 0.61509 |
| O | 7.10850 | 3.29649 | 0.71515 |
| H | 8.06188 | 3.47320 | 0.61263 |

1\1\GINC-ACID10\Freq\RB3LYP\6-31G(d)\C27H18O6\WINKLER\13-Sep-2016\0<br>\#N Geom=AllCheck Guess=TCheck SCRF=Check GenChk RB3LYP/6-31G(d) Freq<br>Title<br>0,1\C,-3.2140041378,-0.6172921952,-0.2479328446\C,-
3.0543624924,0.7734489249,-0.1708180694\C,-1.7550541616,1.2988606464,$0.1335922137 \backslash C,-0.6284156648,0.4652125211,-0.1716207432 \backslash \mathrm{C},-0.8219107006,-$ $0.92123097,-0.2480040197 \backslash \mathrm{C},-2.1080012288,-1.4779947373,-0.286887202 \backslash \mathrm{H},-$ 1.618625132,2.3741791368,-0.0745415932\H,0.0420820541,-1.5776980837,-0.2787832946\C,0.7415290321,1.0383055855,-
$0.1331889001 \backslash C, 1.0382288058,2.1451918463,0.6812606238 \backslash C, 2.3197758834,2.68$ 50043614,0.7195437517\C,3.3414071623,2.1260442243,-
0.0600624112\C,3.0579822654,1.0223926949,-
$0.8753326411 \backslash \mathrm{C}, 1.7761310802,0.4875220023,-0.9108495929 \backslash \mathrm{H}, 1.5641674813,-$ $0.350452225,-$
$1.5683688716 \backslash Н, 0.261950865,2.5699756055,1.3109121021 \backslash Н, 2.5349794236,3.533$ 7380213,1.3592093914\H,3.8549485896,0.6037807432,-1.4810929319\C,-2.2954050591,-2.9494946625,-0.3678520482\С,-3.3175154162,-3.5046107187,$1.1588950561 \backslash \mathrm{C},-1.4561312984,-3.8237483871,0.3447853757 \backslash \mathrm{C},-1.6283542537,-$
5.2022262097,0.272190587\C,-2.6510332033,-5.7419376183,-0.5194913704\C,-
3.4939318394,-4.880725489,-1.2342859378\H,-3.9607105256,-2.8501307896,-
$1.7397729482 \backslash \mathrm{H},-4.2764586288,-5.3106524383,-1.8508622076 \backslash \mathrm{H},-0.6774425979,-$
$3.4167801551,0.9831501188 \backslash \mathrm{H},-0.9782751619,-5.86325938,0.8345556889 \backslash \mathrm{C},-$
$4.2369990213,1.6715507747,-0.1297663641 \backslash C,-4.2349809417,2.8999795868,-$
$0.8150561397 \backslash C,-5.3407663434,3.7404052625,-0.7767045447 \backslash C,-$
$6.4821383638,3.374783892,-0.0509788183 \backslash C,-$
6.4976597719,2.1535803135,0.6363011794\C,-
$5.3877232144,1.3160315535,0.59549415821 \mathrm{H},-$
$5.4016828947,0.3851427949,1.1547113495 \backslash \mathrm{H},-$
7.3745581305,1.8691770374,1.2072406985\H,-3.3677284592,3.1835595732,-
$1.4040563655 \backslash \mathrm{H},-5.3438922615,4.6841947743,-1.3120576274 \backslash \mathrm{C},-$
7.6365058307,4.3091253525,-0.0436701698\O,-7.6710828222,5.3781423121,-$0.6203764124 \backslash \mathrm{O},-$
8.6863737796,3.8520534953,0.6878012449\C,4.7276482998,2.658812237,-
$0.0599146195 \backslash \mathrm{O}, 5.6469191123,2.2087884349,-0.7149119885 \backslash \mathrm{H},-$
$9.3730208055,4.540823784,0.6188358729 \backslash \mathrm{H},-4.2147450489,-1.0367511931,-$
$0.2781589991 \backslash \mathrm{C},-2.8828965289,-7.2042532382,-0.6353625543 \backslash \mathrm{O},-3.7559033711,-$ 7.7202187838,-1.3048783025\O,-2.0065488432,-7.9416405149,0.09573392\H,-2.2552336336,-8.8717533116,-
$0.0582539482 \backslash \mathrm{O}, 4.8866296102,3.7281545247,0.763135783 \backslash \mathrm{H}, 5.8233819036,3.985$

5090837,0.6798999055<br>Version=EM64L-G09RevD.01\State=1-A\HF=1491.1409829 RMSD $=7.732 \mathrm{e}-09 \backslash \mathrm{RMSF}=2.978 \mathrm{e}-$
$05 \backslash$ ZeroPoint $=0.3888715 \backslash$ Thermal $=0.4158876 \backslash$ Dipole $=-0.0058257$,-
$0.0517846,0.9647202 \backslash$ DipoleDeriv $=-0.2123376,0.014317,-0.001957,0.0092191,-$ $0.2295066,-0.0013425,0.0551711,-0.135959,-0.1211125,0.2184088,-0.2090566,-$ $0.0025019,-0.2107199,0.1003499,0.0139116,0.0247487,0.0492045,0.0185459,-$ $0.2408764,0.0041136,0.0048781,0.0110684,-0.2077143,-0.0050715,-$ 0.1397874,0.0124897,-
0.1145737,0.3125572,0.1540484,0.0154044,0.1529198,0.012343,-$0.0112887,0.0318354,-0.0528362,0.0117322,-0.2195733,-0.0168652,-0.0043031,-$ $0.0220785,-0.2348681,-0.0110097,0.0834282,0.1063643,-0.1083642,-$
0.0484593,0.0553458,-0.0105329,0.0573706,0.369419,0.0207137,-
$0.0547606,0.0262484,0.0160536,0.1404525,-0.0275277,-0.0081961,-0.0291558,-$ $0.0749516,-0.0086685,0.0183357,-$
$0.0119319,0.0948145,0.0030941,0.1072718,0.0092823,0.1081648,0.0627145,0.004$ 5718,-0.0064726,-
$0.0167554,0.0946771,0.5207996,0.2133427,0.0058673,0.2257111,0.1005585,0.022$ $1145,0.0236565,0.0066319,0.0489266,-0.2648834,-0.2069151,-0.1401039,-$
0.2079987,-0.1842338,0.0226003,-0.172153,-0.0075917,-
0.0568098,0.2206469,0.1840834,0.0615894,0.0089431,0.0330961,0.0887102,-$0.0524557,0.0537686,-0.0222927,-0.8488674,-0.3412069,-0.0115159,-0.3612062,-$ $0.1917615,-0.0486672,-0.0308539,-0.0556002,-0.0273345,0.1924395,-0.0117066,-$ $0.0964248,0.1784427,0.0279584,0.023549,0.0268019,0.077711,-0.0226329,-$ $0.411529,-0.0280183,0.0722425,-0.0525441,-$
$0.0215862,0.1146967,0.0959782,0.1092378,-0.044181,0.0862994,-0.0348436,-$ $0.0234273,-0.0399156,-0.0073764,-0.0855636,-0.0541638,-0.0875329,0.0391127,-$ $0.0077038,0.0429911,0.0762314,0.050031,0.0779452,-0.0411478,0.1001557,-$ $0.021028,0.0450992,0.0811632,-0.0181513,-0.007278,-0.0329877,0.0200148,-$ 0.0651861,-0.0193871,-
$0.0704642,0.0569307,0.0347347,0.031339,0.0514369,0.0257135,0.0832814,-$ 0.0288676,0.0469428,-
0.0312242,0.0675988,0.0156072,0.0630273,0.0230516,0.0779078,0.6056134,0.029 0167,0.0017334,0.0222472,0.0489093,-0.0801035,-0.1464832,0.0522403,-
$0.1687568,-0.3256195,-0.1378497,0.0337401,-0.1566686,-0.0713866,-$
$0.0184173,0.0673123,0.0942099,0.0653587,-$
$0.4441757,0.0747285,0.083929,0.1174226,-$
$0.043881,0.0008047,0.1172337,0.0553709,-0.0639965,0.2625146,-$
$0.0709362,0.0668257,0.0386983,-0.031391,-0.0546291,-0.0939146,-0.0435809,-$
$0.1145114,-0.9898163,-0.0439721,-0.0417494,-0.0243493,-0.0235802,0.0013382,-$
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$0.0245786,0.0443878,0.0704189,-0.0567177,0.0629589,0.0177232,0.0588199,-$
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$0.0404115,0.0809258,-0.0279138,0.0911017,0.0572131,0.0062032,-$
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8948,0.0050549,0.0526198,0.0765705,2.1696996,-0.8247187,-0.4019514,-
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$1.3347732,0.1151707,0.3860769,-0.1166833,-0.4092016,0.0796632,0.5046374,-$
$0.0276813,-0.5927966,2.3185377,0.6027767,-$
$0.1439883,0.7578064,1.266377,0.5619784,-0.0158459,0.5995831,0.8111146,-$
$1.4120869,-0.1017486,0.2551191,-0.0909936,-0.5678875,-0.1508338,0.2598293,-$
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$0.0142696,0.0735642,0.2068111,0.038281,-0.0647778,0.0795732,0.3256328,-$ $0.0457093,-0.0795596,-0.0024633,-0.0790086,0.1103127,-0.0061305,-$
0.0129312,0.0184322,0.0958889,0.9803002,-
$0.0194799,0.5526848,0.1424017,2.6691295,-0.0009934,0.5349108,-$
$0.125348,0.7463476,-0.714297,-0.3055447,-0.2796056,-0.2951413,-1.2556726,-$
$0.1946946,-0.273154,-0.2027816,-0.5732354,-0.6125956,0.5079242,-$
$0.2257643,0.2841264,-1.1588225,0.2703552,-0.2090618,0.4398565,-$
$0.5651756,0.2799936,-0.1320525,-0.0386658,-0.041622,0.3328623,-0.0333706,-$
$0.0423627,-0.1032011,0.3114137,-0.6565443,-0.2895175,-0.1482042,-0.5047695,-$ $1.0320065,-0.3938382,-0.3196413,-0.4515053,-$
$0.6483051,0.2358556,0.0168188,0.0454478,0.1039419,0.3678513,-$
$0.0069924,0.114457,0.019675,0.3207243 \backslash$ Polar $=428.4983183,-$
$0.0434111,427.635721,1.6570072,14.5598098,158.4307952 \backslash \mathrm{PG}=\mathrm{C} 01$
$[\mathrm{X}(\mathrm{C} 27 \mathrm{H} 18 \mathrm{O} 6)] \mathrm{NImag}=0 \backslash 10.72394149,0.02385239,0.67579398,0.00410931,0.03341$
200,0.13308120,-0.12773320,0.00147151,0.00246242,0.65289289,-0.05675666,-
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$0.00382260,-0.28446348,-0.04151616,-0.00483963,0.66827295,-0.03519454,-$
$0.01485495,-0.00150737,-0.09974192,-0.15455734,-$
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0.01150102,-0.00350782,-0.06270747,0.00768148,0.03200012,0.13273346,-
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$0.24192186,0.12282735,0.00061180,0.64570221,0.02334931,-0.05388910,-$
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$0.00125902,0.04216031,0.02050007,0.00109210,-$
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$0.00133984,0.06355744,-0.04046393,-0.00244486,-0.05001384,-0.31313206,-$
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$0.00249358,0.00707044,0.00066636,-0.01033875,-0.06318632,-$
$0.00051566,0.02714706,0.13220195,-$
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$0.06279338,0.00817979,0.00069293,0.01676408,-0.07909749,-0.00655401,-$ $0.28960390,-0.03686946,-0.00140871,0.67216070,0.12089020,-0.18971565,-$ $0.01095597,0.01903028,-0.04018811,-$
$0.00261214,0.00826082,0.00067062,0.00026691,-0.03388323,-0.01454533,-$ 0.00036876,-0.09506285,-0.14976426,-0.00084785,-
$0.00511848,0.64009532,0.00311302,-0.00895035,-0.06334203,0.00323615,-$ $0.00048155,0.00505660,-0.00089559,0.00046401,-0.00468345,-0.00026798,-$ $0.00358523,0.00486963,-0.00808608,-0.00202104,-$
$0.06244824,0.02272772,0.02327627,0.16428356,-0.00543636,-0.00106921,-$ $0.00028916,0.00023684,-0.02945474,-0.00167133,-0.06329891,-0.03477447,-$ $0.00097203,0.00684330,0.02520503,0.00132245,-0.00424978,0.00247735,-$ $0.00009714,-0.00098243,0.00019637,-0.00004154,0.06659229,-$
$0.00209438,0.00111537,-0.00021465,-0.00047242,-0.00894174,-0.00067073,-$ $0.03480177,-0.33442063,-0.01651835,-0.00371849,-0.01556892,-$ 0.00095488,0.00353659,-0.00002190,-
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$0.00083336,0.00366590,0.01782913,0.02673534,-0.00369089,-0.00383507,-$ $0.00022852,-0.00001897,-0.00073229,-0.00000238,0.00086578,-$
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$0.00003983,0.00033351,0.00045392,0.00745117,-0.06317423,-0.05163048,-$ $0.31319909,-0.06349844,0.02735556,0.65235019,0.00005905,-0.00018491,-$
$0.00007141,-0.00002252,0.00042877,0.00005709,0.00000565,-$
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$0.00000009,0.00002584,0.00023918,0.00000631,0.00002155,-$ $0.00008146,0.00000529,-0.00002682,-0.00001815,-0.00001686,-$ $0.00000035,0.00002187,0.00001071,0.00002420,-0.00003250,0.00003271,-$ $0.00000511,0.00001341,-0.00000323,-0.23272451,-$ $0.00920570,0.08284981,0.02874503,-0.06189126,0.02591555,-$ $0.05678586,0.00997780,0.01783438,0.02477086,0.05684752,-0.04038960,-$ $0.25953792,0.09091363,0.04220949,0.59426492,0.00272227,-0.00177621,-$ 0.00023407,0.01648434,0.01182948,-0.01091024,0.00216202,-
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$0.13589205,0.00727155,0.03312047,-0.01381583,0.01605904,-0.00559220,-$ $0.01062662,-0.01862485,-0.00093942,0.01726595,0.01169060,0.03445647,-$ 0.08446347,-0.15462747,-0.22822823,0.33422397,0.00002041,0.00012437,--$0.00002919,0.00113307,-0.00173642,-0.00094437,-0.00057918,0.00002100,-$ 0.00003804,0.00018023,-0.00037555,0.00004766,0.00030215,0.00030266,-0.00001342,-0.00050242,0.00032629,-
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0.00001814,0.00001152,0.00005411,0.00002424,-0.00002414,-0.00005617,--$0.00000669,0.00000825,0.00001886,-0.00000611,0.00000537,-0.00005423,-$ $0.00002472,-0.00000447,0.00001572,0.00000717,-0.00000074,-0.00003231,-$ $0.00001951,0.00000289,0.00000477,0 .,-0.00000741,0.00000327,0.00000636,-$ $0.00000370,-0.00000596,-0.00000293,-0.00000236,-$
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$0.00056401,0.00021129,-0.00008843,-0.00013346,-0.00012043,0.00028773,-$ $0.00021588,-0.00001982,0.00015183,0.00015752,0.00013954,-$
$0.00011432,0.00001279,0.00001313,0.00004973,-0.00003816,-0.00000016,-$
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$0.00000281,0.00003828,0.00007944,0.00001166,-0.00003169,-0.00029626,-$ $0.00000981,0.00000375,0.00008694,0.00000075,0.00001859,0.00002850,0.000063$
$14,-0.00001020,-0.00000144,0.00000249,-0.00002312,0.00003699,-$
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0.00070181,0.00031944,0.00120066,0.00011657,0.00038087,0.00050465,0.001040 $76,-0.00334141,-0.00149601,-0.00020581,-0.00353988,0.00000773,-0.00003162,-$
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0.00011619,0.00019404,-
0.00008097,0.00001241,0.00008508,0.00013008,0.00000960,0.00086860,0.001362 $49,0.00086980,-0.00367052,-0.00085592,0.00008661,-0.00079737,-0.00732662,-$
$0.00480179,-$
$0.05083998,0.01080766,0.03065746,0.00030470,0.00508102,0.00407100,-$ $0.00135062,0.00034641,0.00047180,-0.00026719,-0.00027925,-0.00017539,-$ $0.00094583,-0.00023644,0.00003082,0.00034786,0.00008872,0.00012166,-$ 0.00142276,-0.00099447,-0.00046502,-0.00003924,0.00045217,-0.00000044,-0.00002513,-0.00026203,-0.00003490,-0.00000221,-
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$0.00002780,0.00000174,-0.00002564,-0.00002065,-0.00001472,-0.00003298,-$ $0.00099901,-0.00030598,0.00020005,0.00023229,0.00158542,-0.00037991,-$ $0.00082565,-0.00056410,0.00278956,0.02160657,-0.00335839,0.00934846,-$ 0.00235571,-0.00487930,-
0.00314445,0.00128478,0.00126547,0.00018938,0.00019007,0.00009808,0.000043 $49,0.00002338,0.00020558,-0.00019925,-0.00059641,-0.00007209,0.00080998,-$
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$0.00001514,0.00001147,-$
$0.00001149,0.00000596,0.00000839,0.00001158,0.00005576,-$
0.00003628,0.00005164,0.34171575,0.08633830,0.46883869,-0.00029298,-
$0.00015970,-0.00015917,-0.00007456,-0.00000874,0.00006493,-0.00003462,-$
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$0.00006373,0.00015780,0.00023880,-0.00017865,0.00005106,-0.00000476,-$
0.00002823,-
$0.00000361,0.00007193,0.00004836,0.00000625,0.00012349,0.00002356,-$ $0.00001339,-0.00007791,-0.00003702,-0.00000316,0.00003901,0.00000174,-$ $0.00000228,-0.00011287,-0.00005010,-$
$0.00000598,0.00003075,0.00001322,0.00000594,-0.00005013,-$
$0.00002152,0.00002908,0.00001102,0.00000463,-$
$0.00003207,0.00000814,0.00001705,0.00000922,-0.00000459,-0.00000392,-$ $0.00000628,-0.00000103,0.00000752,-$
0.00000396,0.00019929,0.00131199,0.00004354,-0.00014223,-
$0.00200938,0.00056443,-0.00009745,-0.00163784,0.00109030,0.00372572,-$
0.00008222,0.00054090,-0.00416773,-0.02650021,-0.01706751,-
$0.00402401,0.00563026,-0.00366968,0.00001126,-$
$0.00029688,0.00003765,0.00147263,-0.00102614,0.00157003,-0.00022531,-$
$0.00026489,0.00012110,0.00087956,0.00055166,0.00020728,-$
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0.00005357,0.00022327,0.00013774,0.00002736,-0.00011327,-
$0.00003840,0.00002179,-0.00003030,-0.00001117,0.00000238,-$
$0.00000835,0.00004300,-0.00001606,-0.40804125,-0.19200999,-$
$0.25599651,0.46447279,-0.00033854,-0.00037636,-0.00023251,-$
$0.00018693,0.00003069,0.00010472,-0.00003380,-0.00042063,-$
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$0.00054008,0.00022504,0.00002636,0.00051893,0.00002516,-0.00000718,-$
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$0.00006396,0.00005195,0.00005447,-0.00000312,-$
$0.00006310,0.00002379,0.00004143,0.00003672,-0.00000976,-0.00001554,-$ $0.00001096,-0.00000973,0.00000322,0.00000321,-0.00102559,0.00091037,-$
$0.00086656,-0.00108865,0.00016209,-0.00092573,-0.00128509,-0.00313288,-$
$0.00099799,0.00490438,-0.00544171,0.00433798,-0.03804282,-0.02510514,-$
$0.02819393,-0.00253917,0.00007708,-0.00193619,0.00012634,-$
$0.00025853,0.00013723,-0.00078582,-0.00140415,-0.00058936,-0.00019094,-$
$0.00091422,-0.00017067,-0.00041537,0.00006424,-0.00027978,-$
0.00035842,0.00016480,0.00002920,0.00019131,-0.00013926,0.00000865,-
$0.00009771,0.00003008,0.00001522,0.00030549,-0.00022268,-0.00001654,-$
$0.00008847,0.00008179,0.00001195,0.00017610,-0.00010106,-0.00006052,-$
$0.00005833,0.00000202,0.00005746,0.00001574,0.00000216,-0.00001041,-$
$0.00001339,0.00004975,-0.00003473,0.00000598,-0.00001322,0.00000380,-$
$0.00063121,0.00039166,0.00006566,0.00022719,-$
0.00026787,0.00005156,0.00031749,-0.00002662,-
0.00012256,0.00065924,0.00031255,0.00004455,-0.00035178,-
0.00005472,0.00006881,-0.00006229,-0.00000289,0.00002280,-
$0.00007630,0.00013352,0.00001718,-0.19204584,-0.23692398,-$
$0.14500272,0.21927064,0.23165602,-0.00021170,-0.00001547,-0.00011004,-$
0.00010220,-0.00

1\1\GINC-ACID10\Freq\RB3LYP\6-31G(d)\C24H15N3O6\WINKLER\13-Sep2016\0<br>\#N Geom=AllCheck Guess=TCheck SCRF=Check GenChk RB3LYP/631G(d) Freq<br>Title<br>0,1\N,-
$1.1401903877,0.7577732869,0.0144617401 \backslash C, 0.0826720638,1.3094158965,0.0143$ $672534 \backslash \mathrm{~N}, 1.2261866429,0.608207938,0.0139165625 \backslash \mathrm{C}, 1.092513972,-$
$0.7266172174,0.0135180922 \backslash \mathrm{~N},-0.0865112887,-1.3663533129,0.0135674073 \backslash \mathrm{C},-$
$1.1756840739,-0.5831834696,0.014062193 \backslash C, 2.3284296408,-$
$1.5484450986,0.012919009 \backslash C, 3.5896133783,-$
$0.9318426151,0.0131400316 \backslash C, 4.7488770009,-$
1.6995803864,0.0125841997\C,4.662984125,-
3.0989243532,0.0117735747\C,3.4057109758,-
3.7183505391,0.0115475627\C,2.2482616759,-
$2.9506941969,0.0121261525 \backslash \mathrm{H}, 1.2724924368,-$
$3.4219046119,0.0119727392 \backslash H, 3.6454627214,0.150323436,0.0137592061 \backslash \mathrm{H}, 5.721$ 5124362,-1.2206940972,0.012772477\H,3.3587886788,-
$4.8021754951,0.010916616 \backslash \mathrm{C},-2.5053637508,-1.2426068299,0.0141250296 \backslash \mathrm{C},-$
$3.6796776068,-0.4720637117,0.0145208426$ IC,-2.6020892048,-
2.6431064378,0.0137975795\C,-3.8466351731,-3.2631476504,0.0138667694\C,-5.0155556488,-2.4891041075,0.0142592757\C,-4.9232500296,$1.0905654,0.0145853889 \backslash \mathrm{H},-3.5999529373,0.6085848988,0.0147695643 \backslash \mathrm{H},-$ $5.8383092278,-0.5078432348,0.0148957946 \backslash \mathrm{H},-1.6929648434,-$ 3.2327680685,0.0135025055\H,-3.9181455502,-
$4.344924074,0.0136126733 \backslash C, 0.1766135797,2.7906499402,0.0147616084 \backslash C, 1.431$ 1330907,3.4222270386,0.0145904612\C,1.5174236803,4.8084132122,0.014930077 \C,0.3525028282,5.5877730851,0.015457089\C,-
$0.9023745657,4.9626204397,0.0156335346 \backslash C,-$
$0.9878215806,3.574781762,0.01528334841 \mathrm{H},-$
$1.9530418665,3.0822856712,0.015399103 \backslash \mathrm{H},-$
1.803450182,5.5654879992,0.0160356863\H,2.3271184832,2.8128174366,0.01418 16237\H,2.4796510128,5.3094018123,0.0147898087\C,0.5036221955,7.068404954 $9,0.0157950049 \backslash 0,1.5658812784,7.6572063633,0.0155856007 \backslash \mathrm{O},-$
$0.6853021335,7.7231128823,0.0163394529 \backslash C, 5.8700371511,-$
$3.9696517089,0.0111345348 \backslash 0,5.849362635,-5.1839991961,0.0103906983 \backslash \mathrm{H},-$
$0.463908874,8.6727906505,0.0164876452 \backslash \mathrm{C},-6.3731260866,-$
$3.0991589712,0.0143503532 \backslash \bigcirc,-7.4145149093,-2.4742097096,0.0146787463 \backslash \mathrm{O},-$
$6.3448330076,-4.4561548059,0.0140134191 \backslash \mathrm{H},-7.2777858606,-$
4.7398863844,0.0141027738\O,7.0311450898,-
3.2667551767,0.0114906088\H,7.7432820157,-
3.9329178437,0.0110185815<br>Version=EM64L-G09RevD.01\State=1-A\HF=$1539.2795012 \backslash R M S D=3.353 \mathrm{e}-09 \backslash \mathrm{RMSF}=2.425 \mathrm{e}-$
05\ZeroPoint=0.353128\Thermal=0.3798692\Dipole $=0.000178,0.0001152,0.0002695$
\DipoleDeriv=-1.210724,-0.6152929,0.0000576,-0.6220184,-1.7277905,-
$0.0003074,0.0000229,-0.0003112,-0.2255822,1.0180206,0.0907227,-$
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$1.062974,0.5364137,0.0003587,0.5299413,-1.8762089,-0.0006257,0.0003583,-$
$0.0006043,-0.2255565,2.047764,-0.6945062,-0.0006813,-$
0.6850411,1.4710996,0.0005511,-0.0007075,0.0005846,0.2069031,-
$2.1347291,0.088729,0.0004829,0.0822808,-0.8041025,-0.0001821,0.0005029,-$
0.0002203,-0.2256463,2.2120155,0.589633,-
$0.0002788,0.5993992,1.3058623,0.0001989,-0.0002735,0.0002351,0.2069536,-$ $0.4290899,0.2965724,0.0002084,0.3051353,-0.190102,-0.0001275,0.000227,-$ $0.0001288,-0.0056582,-0.1222136,-0.1219315,-$ $0.000069,0.1283589,0.0349678,0.000068,0.0000272,0.0001133,-$ $0.0909517,0.1598189,0.1068629,0.0000459,-0.0449429,-0.0837249,0.0000097,-$ $0.0000449,-0.0000086,-0.0952467,-0.5986359,0.3961427,0.0002833,0.3683137,-$ $0.2265807,-0.0001771,0.0002785,-0.0001959,0.027497,-0.0851579,-0.130016,-$ 0.0000842,0.0381956,0.1260025,0.0001198,0.0000207,0.0001451,-
$0.08905,0.0251101,0.180297,0.0000913,-0.095603,-0.0834763,0.0000092,-$
0.0000234,-0.0000565,-0.0917801,0.0321306,-0.0680369,-0.000034,-
$0.0909183,0.0993617,0.0000042,-0.0000595,0.0000185,0.1071221,0.145912,-$ $0.0444874,-0.0000218,-0.0200635,-0.0146226,-0.0000714,0.0000075,-$
$0.0000783,0.1072515,-0.0118374,-0.0351772,-0.0000123,-0.05966,0.0685454,-$ $0.0000223,-0.0000182,-0.0000261,0.1149721,0.0970967,-0.0041579,-0.0000003,-$ $0.0066672,-0.0134523,-0.0000712,-0.0000066,-0.0000719,0.1137622,-0.5104198,-$ $0.2581996,0.0000303,-0.2499225,-0.1089535,0.0000199,0.0000279,0.0000205,-$ $0.0056369,-0.0925183,0.1639194,0.0000392,-0.1119051,0.0348409,0.0000517,-$ $0.000048,-0.0000095,-0.0917511,-0.0072548,-0.1948991,-0.0000538,0.0555051,-$ $0.0800769,-0.0000092,0.0000164,0.0000397,-0.0910096,-$
0.0491455,0.1660016,0.0000282,0.0141455,0.1259005,0.0000531,-
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$0.1745914,0.0000162,0.0000293,0.0000061,0.0275291,0.1127207,-0.1527594,-$
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0.000001,-
$0.0000329,0.1071566,0.0188141,0.0517559,0.0000303,0.0493616,0.0648186,-$
0.0000209,0.0000325,-
0.0000208,0.1137735,0.0532242,0.0734116,0.0000255,0.0980289,0.0779427,-0.0000283,0.0000213,-0.0000261,0.1072531,0.0894919,0.0011523,0.0000061,--$0.0235541,-0.0329952,-0.0000326,-0.0000028,-0.0000396,0.1149961,0.0108377,-$ $0.0515807,-0.0000204,-0.0428106,-0.629742,-0.0001688,-0.0000167,-0.0001473,-$ $0.0056357,-0.0196233,0.0698423,-0.0000019,-0.2061233,-0.0386422,0.0000738,-$ $0.0000741,0.0000063,-0.0917948,0.0332483,0.0304038,-$
$0.000022,0.1984513,0.0068945,-0.0000349,0.0000153,0.0000148,-$
$0.0890611,0.0116123,-0.0165581,0.0000002,-0.0441625,-0.8364513,-0.0002282,-$
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$0.1967427,0.0722823,0.0001005,-0.0000809,0.0000469,-0.0952317,-0.0015851,-$ $0.0584971,-0.0000433,0.1915343,-0.0862048,-0.000055,0.0000321,0.0000029,-$ $0.0910056,-0.0024941,-0.0656787,0.0000131,-$
0.0410995,0.133812,0.0000226,0.0000151,0.000032,0.1073014,0.0073656,0.07077 12,0.0000492,0.0463324,0.0491937,-0.0000323,0.0000403,-
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$0.0000102,0.0000398,-0.0000232,0.1071045,0.0096054,-0.0438552,0.0000183,-$
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0.0004018,-0.373668,2.3890847,-0.5778251,-0.0004804,-
0.34244,1.6159015,0.0008467,-0.0003653,0.0008601,0.3090049,-
0.9177588,0.3514626,0.0002487,0.3210609,-1.2298294,-0.0005693,0.0002365,-$0.0005649,-0.3589607,0.2672122,-0.172352,-0.0000202,-$
$0.0587129,0.3208331,0.0000175,0.0000078,0.0000546,0.3444294,2.2074495,0.446$ 8997,-0.0002339,0.6822151,1.7970065,0.0002279,-
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$0.7045125,-0.0000719,0.0001738,-0.0000782,-0.3589447,-0.5625888,-0.2278773,-$
$0.0000187,-0.495374,-1.3919023,-0.0001499,-0.0000858,-0.0002054,-$
0.3736968,0.2071159,0.0240365,0.0000287,0.1375968,0.3807331,-
$0.0000168,0.0000565,0.0000023,0.3443992,-1.4982691,-0.0442795,0.0000348,-$
$0.3119162,-0.4566652,-0.0000354,-0.0001199,-0.0000493,-0.3736976,0.4073195,-$
0.0220735,-0.0000149,0.0914759,0.1806054,-0.0001079,0.0000564,-
$0.0001001,0.3443955 \backslash$ Polar $=446.9067805,0.0180639,446.892825,-$
$0.0762888,0.1165874,93.4008988 \backslash \mathrm{PG}=\mathrm{C} 01$
[X(C24H15N3O6)]NImag=0<br>0.50472257,0.10594955,0.59404347,-
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12,0.06896013,-0.17699441,-0.00004189,-
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$0.01282255,0.00002419,-0.00003291,0.00467300,0.00000019,-0.00007455,-$ 0.07736810,-
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$0.01420185,0.43526463,0.00001039,-$
$0.00005024,0.03928892,0.00001890,0.00000626,-0.01277543,-0.00001050,-$ $0.00000095,0.03926689,0.00001232,-0.00001796,-0.07740056,-$
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$0.01436921,0.00000596,0.02249222,-0.05683987,-0.00002148,-$
$0.00868660,0.04238709,0.00001344,-0.10407406,-0.01645948,0.00001949,-$ 0.24840967,0.10053918,0.00007086,0.68660416,0.01005159,-0.31382538,-$0.00007383,-0.11279424,-0.04854265,0.00000861,0.04241640,-0.07311857,-$ 0.00002864,0.03950513,0.07825541,0.00001618,0.07608466,-0.19442149,-$0.00005705,0.00885214,0.67336294,0.00001339,-0.00006897,-0.07735138,-$ $0.00003859,-0.00000450,0.00464462,0.00001198,-0.00002794,-$
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$0.00001871,0.00425049,0.00004048,-0.00003972,-$
$0.07237937,0.00001145,0.00000202,0.00426433,-0.00000187,-$
$0.00000097,0.00907243,-0.00004288,0.00028754,0.15612996,-0.00044331,-$ $0.00180402,-0.00000078,0.00029476,-0.00151887,-0.00000012,-0.00522793,-$ 0.00280152,-0.00000114,-
0.03608624,0.00025974,0.00000363,0.00417674,0.00207003,-0.00000039,-0.00326640,0.00287397,0.00000249,-0.27072475,-0.05275255,-
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0.25419635,0.12183614,0.00006337,0.65521330,-0.00258035,-0.00213904,--
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0.00001209,0.,--
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0.00000081,0.06133413,-0.00031423,-
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$0.00046494,0.00031308,0.00000021,0.00015282,0.00092637,0.00000060,0.000239$ 88,0.00222965,0.00000114,-0.00018619,-0.00002212,0.00000002,-0.00001999,-
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0.00000025,0.00013925,0.00000005,-0.00000002,0.00000495,-0.00000001,--
0.00000001,0.00000366,-0.00000002,-0.00000003,0.00000119,0.00000003,-0.00000002,-0.00000053,0.00000002,0.00000003,0.00000330,-
0.00000003,0.,0.00000533,0.,0.00000001,-0.00000847,0.,0.,-
$0.00000297,0.00000003,0.00000001,-0.00000198,0 .,-0.00000001,-0.00000366,0 .,-$
0.000000005,0.00005792,0.00000025,0.00000067,-
0.00056257,0.00000005,0.00000077,-0.00156270,-
$0.00000006,0.00000031,0.00264395,0.00001429,-0.00000358,0.01901802,-$
0.00000045,-0.00000274,0.00012956,0.00000009,0.00000005,0.00003926,-
0.00000021,0.00000100,-0.00036554,0.00000002,0.00000010,-0.00026603,-
0.00000025,0.,0.00064228,0.00000004,0.00000007,0.00000218,-
0.00000003,0.,0.00000296,-
0.00000002,0.00000004,0.00000173,0.00000001,0.00000006,-
0.00000069,0.00000004,-
0.00000002,0.00000565,0.00000003,0.00000004,0.00000767,-0.00000002,-
$0.00000003,-0.00001306,0 ., 0.00000001,-0.00000652,0 .,-0.00000001,-0.00000312,-$
$0.00000002,0 .,-0.00000222,0 .,-0.00000016,-$
$0.00000769,0.00000002,0.00000006,0.00000622,-$
$0.00000005,0.00000006,0.00001014,-0.00000011,0 .,-0.00000543,0.00000004,-$
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0.00009446,0.00000028,0.00181287,0.00074958,-0.00000014,-
0.00012516,0.00003249,0.00000003,-
$0.00000730,0.00006584,0.00000003,0.00001156,0.00000340,0.00000001,-$
$0.00013836,0.00008331,0.00000004,-0.00000618,-0.00003401,0 .,-0.00001747,-$ $0.00000138,0.00000003,0.00003410,-0.00004811,-0.00000005,0.00003519,-$
$0.00000246,0 .,-0.00001085,-0.00000302,0 ., 0.00000300,0.00000451,0 .,-$
$0.00035271,-0.00126024,-0.00000023,-0.00050201,-0.00243817,-$
$0.00000058,0.00116310,-0.00017613,-0.00000038,-0.00443958,-$
$0.00148084,0.00000057,-0.00131838,-0.04056946,-0.00000811,-$
$0.00646485,0.00141531,0.00000177,-0.00051523,-0.00024454,0.00000001,-$ 0.00005689,-0.00063964,-0.00000013,-0.00002682,0.00007419,0.00000002,-$0.00239124,-0.00248470,-0.00000016,-0.00005799,-0.00012394,-$ $0.00000001,0.00005597,-0.00003978,-0.00000004,0.00001037,-0.00000078,0 .,-$ $0.00000991,-0.00016819,-0.00000004,-0.00003457,0.00002662,0 .,-0.00001249,-$ $0.00002443,-0.00000001,-0.00002017,0.00006415,0.00000003,0.00000830,-$ $0.00000505,0 ., 0.00001997,0.00003030,0 .,-0.00000520,-0.00000586,0 .,-$
$0.00003345,0.00037188,0.00000009,-0.00004930,-0.00016932,-$
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$0.00000015,-0.00011726,0.00013467,0.00000011,-$
0.00002276,0.00002700,0.00000002,-0.12811658,-
0.02996174,0.00000430,0.00515752,0.06839737,0.00002071,0.58109817,-$0.00154192,-0.00149865,-0.00000014,0.00099759,0.00107423,0.00000012,-$ $0.00091169,-0.00017808,0.00000014,0.00163471,-0.00018563,-0.00000050,-$ $0.00238735,-0.00007841,0.00000056,0.00324689,0.00158108,-0.00000025,-$ $0.00025496,0.00006656,0.00000009,0.00001442,0.00013821,0.00000005,0.000018$ $18,0.00004147,0.00000003,-0.00030097,0.00016324,0.00000012,0.00002473,-$ $0.00008693,-0.00000007,-0.00012764,-0.00000576,0.00000005,0.00006785,-$ 0.00011923,-0.00000008,0.00008316,-0.00000128,0.,-0.00001897,-0.00000408,0.,-$0.00001850,0.00001579,0.00000001,-0.00115415,-0.00098750,-0.00000005,-$ 0.00094666,-0.00030225,0.00000011,-
0.00083854,0.00001873,0.00000037,0.00096735,-0.00435324,-0.00000147,--$0.01373214,-0.03011543,-0.00000719,-0.00287358,0.00316765,0.00000090,-$ 0.00027206,-0.00015241,0.00000006,0.00096367,0.00151510,0.00000019,-$0.00031642,-0.00002892,0.00000004,-0.00173289,0.00051537,0.00000041,-$ $0.00009249,-0.00019941,-0.00000001,0.00007839,-0.00008381,-$ $0.00000005,0.00000223,0.00001516,0 .,-0.00000655,-0.00026311,-0.00000007,-$ $0.00005678,0.00001323,0.00000001,0.00000855,0.00000331,-0.00000002,-$ 0.00002252,0.00008953,0.00000005,0.00001894,0.00000919,0.,0.00002828,0.0000 4812,0.,-0.00001002,-0.00001173,0.,0.00003937,0.00061919,0.00000016,--$0.00013900,-0.00030617,-0.00000004,0.00010377,-0.00022376,-$
0.00000010,0.00056030,-0.00042956,-0.00000030,-
0.00020121,0.00032890,0.00000021,-
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$0.00000016,0 .,-0.00000598,0.00000026,-0.00000005,-0.00000635,-$
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0.00000007,0.00000555,-0.00000003,0.,0.00000873,0.,-0.00000002,-
$0.00001380,0.00000001,0 .,-0.00000325,-0.00000004,-0.00000001,-$
0.00000233,0.,0.00000003,-0.00000675,-0.00000021,0.,0.00008156,-
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$0.00000235,0.00864767,0.00000063,0.00000015,0.00156410,-$
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09,0.00000002,0.,0.00000324,-0.00000007,0.,0.00000149,0.00000003,-
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0.00000001,0.00000001,-0.00000743,0.00000003,-0.00000002,-
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$0.00000541,-0.00000002,-0.00000004,0.00000478,0.00000002,-$
$0.00000002,0.00000682,0.00000010,-0.00000012,-0.00000793,-$
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$0.00007063,0.00008477,0.03812401,0.00009858,0.00011342,0.00000002,-$
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0.00000229,0.00000221,0.,0.00001770,-0.00001141,-
0.00000001,0.00000254,0.00000171,0.,-0.00000244,0.00000126,0.,-
0.00000249,0.00000430,0.,-0.00000432,0.00000043,0.,0.00000160,0.00000073,0.,-
$0.00000255,-0.00000027,0,0.00002955,0.00010923,0.00000002,0.00027543,-$
0.00017462,-0.00000015,0.00001181,-
$0.00004402,0.00000002,0.00028662,0.00026879,-$
$0.00000006,0.00183828,0.00054557,0.00000071,-$
$0.00025189,0.00002799,0.00000013,-0.00002621,0.00001558,0 ., 0.00002287,-$
$0.00008747,0 .,-0.00000661,-0.00000952,0 ., 0.00015473,-0.00018284,-$
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0.00000735,0.00000530,0.00000002,-0.00000156,-
0.00000053,0.,0.00000154,0.00002624,0.,0.00000406,-
0.00000417,0.,0.00000279,0.00000339,0.,0.00000362,-0.00000768,0.,-
0.00000167,0.00000044,0.,-0.00000342,-
$0.00000466,0 ., 0.00000091,0.00000053,0 ., 0.00000623,-$
$0.00006015,0 ., 0.00000732,0.00002761,0 .,-0.00001620,0.00002510,0.00000002,-$
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0.00030585,0.00002363,0.00000006,0.00042258,0.00002387,-0.00000008,-0.00058994,-0.00024989,0.00000004,0.00004934,-0.00001424,0.,-0.00000080,$0.00002451,0 .,-0.00000367,-0.00000451,0,, 0.00005713,-0.00003340,-0.00000003,-$ $0.00000140,0.00001746,0.00000002,0.00001252,-0.00000103,0 .,-$ $0.00001444,0.00002127,0.00000001,-$ $0.00001423,0.00000062,0 ., 0.00000348,0.00000132,0 ., 0.00000094,-$ $0.00000192,0 ., 0.00044112,0.00011983,-0.00000004,0.00017807,-0.00067488,-$ $0.00000008,-0.00006070,0.00037337,0.00000006,0.00122378,-0.00008483,-$ 0.00000013,0.00297553,-0.00701917,-0.00000356,-0.00181756,-$0.00001074,0.00000021,-0.00014500,-0.00002529,0.00000003,-0.00005456,-$ 0.00022336,-0.00000009,0.00001665,-0.00000871,-0.00000001,-0.00042198,0.00054265,0.00000027,0.00001649,0.00003742,0.00000001,-0.00001426,0.00001613,0.00000002,-0.00000044,-
$0.00000399,0 ., 0.00000090,0.00004939,0 ., 0.00000912,-0.00000165,0 ., 0.00000066,-$ $0.00000079,0 ., 0.00000489,-0.00001336,0 .,-0.00000375,-0.00000226,0 .,-$ $0.00000542,-0.00000896,0 ., 0.00000194,0.00000202,0 .,-0.00001102,-0.00011878,-$ 0.00000003,0.00002845,0.00005970,0.,-0.00001779,0.00004238,0.00000003,-$0.00011819,0.00008516,0.00000006,0.00004373,-0.00006542,-$ 0.00000004,0.00000429,-0.00000950,0.,-0.06194511,--0.02473112,0.00000342,0.00579766,0.00864682,0.00000275,-0.08135498,-0.07577998,-0.00000071,0.13532330,0.09891251,0.00000006,0.00000006,-0.00002512,-0.00000005,0.00000002,0.00003443,0.00000004,0.,-0.00001893,--0.00000006,0.00000002,0.00001764,0.00000008,0.,-0.00002003,-0.00000013,-$0.00000003,-0.00000457,0.00000003,-0.00000002,-0.00000115,0 ., 0 .,-0.00000209,-$ $0.00000003,-0.00000002,-0.00000162,0 .,-$
$0.00000001,0.00000056,0.00000002,0.00000004,-0.00000349,0 ., 0 .,-$
$0.00000537,0 ., 0 ., 0.00000811,0 ., 0 ., 0.00000232,0.00000002,0 ., 0.00000175,0 .,-$
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0.00000007,0.00017705,0.,0.,0.00002949,-0.00000018,0.00000024,-0.00023059,0.,-0.00000003,-0.00000030,-0.00000001,0.,-0.00000208,0.00000003,0.,-0.00000143,-
$0.00000002,0 ., 0.00000044,0 ., 0 .,-0.00000260,0.00000002,0 .,-$
$0.00000403,0 ., 0 ., 0.00000554,-$
$0.00000001,0 ., 0.00000318,0 ., 0 ., 0.00000226,0 ., 0 ., 0.00000158,0 .,-$
$0.00000001,0.00000456,0 ., 0 .,-0.00000397,0 ., 0 .,-0.00000586,-$
0.00000003,0.00000004,0.00000565,0.,-0.00000003,-0.00000704,0.,0.,0.00000426,-
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0.00658886,0.00005288,0.00000787,-0.01645093,-0.00004071,-
$0.00000212,0.01340270,-0.00071838,0.00075311,0.00000029,0.00075442,-$ 0.00164954,-0.00000048,-0.00142363,0.00223622,0.00000099,0.00337244,--0.00234997,-0.00000160,-0.00244356,0.00066612,0.00000091,0.00166498,-0.00035025,-0.00000049,-0.00187932,0.00027121,0.00000034,-
$0.00013070,0.00008873,-0.00000002,-0.00464720,-0.00101685,-0.00000018,-$ $0.04647438,-0.01226253,-0.00000372,0.00013933,0.00667881,0.00000401,-$ $0.00182405,0.00019476,0.00000050,-0.00046659,0.00030025,0.00000017,-$ $0.00013341,0.00025511,0.00000017,-$
$0.00196015,0.00187066,0.00000132,0.00126267,-0.00020493,-0.00000034,-$ 0.00025782,-0.00002326,0.,-0.00003209,-0.00012910,-0.00000003,-0.00000750,-0.00000568,0.00000002,-0.00001150,0.00006987,0.,-0.00027580,-
0.00014700,0.00000004,0.00001449,0.00000037,-0.00000002,0.00006641,-0.00000151,0.,-0.00001706,0.00000322,0.00000002,0.00007996,0.00008052,-$0.00000002,0.00001502,-0.00001511,0 .,-0.00007750,0.00028340,0.00000005,-$ $0.00006462,0.00010064,0.00000004,-0.00007128,-0.00006168,0 .,-$ $0.00000637,0.00037719,0.00000012,0.00004380,0.00000023,-$ $0.00000002,0.00013667,0.00006911,-0.00000001,0.00004258,-0.00007893,-$ $0.00000003,-0.00001505,0.00001629,0.00000002,-0.00007221,-0.00012947,-$
$0.00000001,0.00000638,0.00002041,0.00000001,-0.00007618,-0.00078795,-$
0.00000021,0.00018901,0.00037808,0.00000007,-
$0.00012377,0.00027712,0.00000009,-0.24280090,-0.07792757,-0.00003549,-$ $0.00243493,-0.05305361,-0.00003063,0.00002458,-0.00004863,-$
$0.00000001,0.00063415,0.00034645,-0.00000006,-0.00037552,-$
0.00004953,0.00000008,-0.00016311,-0.00025432,-
$0.00000005,0.00003031,0.00005568,0.00000002,0.56052315,0.00002355,0.000097$ 61,0.00000003,0.00000660,-0.00016144,-0.00000003,-
0.00005816,0.00018547,0.00000004,0.00014935,0.00002398,0.,0.00008998,0.0000 1867,-0.00000004,-0.00002450,-
0.00004673,0.,0.00037876,0.00053198,0.00000021,-
0.00057113,0.00131356,0.00000125,0.00134961,-0.00417464,-
0.00000295,0.01463191,0.01502203,0.00000279,0.00239225,-0.00342419,-$0.00000318,0.00167651,0.00101738,0.00000051,0.00027261,-0.00020087,-$ 0.00000004,-0.00013590,0.00007802,0.00000006,0.00263246,0.00025271,-
0.00000014,0.00140149,0.00019216,-0.00000014,0.00000830,0.00000030,-0.00000002,-0.00001103,0.00000417,0.00000002,0.00002726,-0.00000154,0.,-$0.00001367,-0.00000943,0 ., 0.00001492,0.00000256,0 ., 0.00000331,0.00001073,0 .,-$ $0.00000344,0.00000163,0 .,-0.00000088,0.00000001,0 .,-0.00000621,-$ $0.00001076,0 ., 0.00000892,0.00000255,0 .,-0.00000528,0.00001809,0 .,-$
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0.00000704,0.00003155,0.00000001,0.00001437,0.00000942,0.,0.00001700,-0.00000596,0.,0.00000716,-0.00000876,0.,0.00000022,0.00000052,0.,-0.00001358,--0.00001258,0.,-0.00000233,0.00001234,0.,-0.00005271,-
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0.00000043,0.00000121,-0.00077753,0.00000132,-
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$0.00000002,-0.00000204,0 .,-0.00000002,-0.00000740,0 .,-0.00000001,-$
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0.00000001,0.,0.00000216,-0.00000003,0.00000001,0.00000282,0.,0.,-0.00000327,0.00000003,-0.00000002,-0.00000234,0.00000001,0.,-0.00001380,0.,0.,-0.00000672,-0.00000002,0.00000002,-0.00000796,0.,-$0.00000001,0.00001005,0.00000002,-0.00000003,0.00000680,-0.00000948,-$ $0.00005340,-0.06105052,-0.00004267,-0.00005405,0.02874922,0,0.00000002,-$ $0.00000581,-0.00000005,-0.00000005,-$
$0.00000546,0 ., 0.00000001,0.00000485,0.00000003,0.00000004,0.00000680,0 ., 0 .,-$
$0.00000495,-0.00010379,0.00027745,0.03812291,0.00012683,-0.00010891,-$
0.00000006,-0.00014250,0.00028194,0.00000008,0.00024436,-0.00036228,--
0.00000013,-0.00054921,0.00039596,0.00000026,0.00039675,-0.00009230,-$0.00000015,-0.00026956,0.00005812,0.00000009,0.00033535,-0.00026493,-$ 0.00000017,0.00023705,0.00019124,0.00000012,0.00065465,-0.00101226,-$0.00000065,-0.00328067,-0.00592141,-0.00000306,-$
$0.00084440,0.00147415,0.00000094,-0.00043563,-0.00058807,-0.00000032,-$
$0.00008165,0.00011305,0.00000008,-0.00000504,-0.00001562,-$
$0.00000001,0.00018153,0.00043522,0.00000022,-0.00022349,-$
$0.00008565,0 ., 0.00004454,0.00000562,0 ., 0.00000645,0.00002217,0 ., 0.00000181,-$
$0.00000111,0 ., 0.00000172,-0.00001034,0 ., 0.00004925,0.00002671,0 .,-0.00000373,-$
$0.00000103,0 .,-0.00001191,0.00000047,0 ., 0.00000288,-0.00000087,0 .,-$
0.00001026,-0.00001293,0.,-0.00000355,0.00000277,0.,0.00001211,-0.00005167,-$0.00000001,0.00000478,-0.00000863,0 ., 0.00001432,0.00000771,0 .,-0.00000080,-$ 0.00006764,-0.00000002,-0.00000512,0.00000219,0.,-0.00002155,-0.00001366,0.,$0.00000631,0.00001304,0 ., 0.00000303,-0.00000244,0 ., 0.00001078,0.00002228,0 .,-$ $0.00000163,-0.00000039,0 ., 0.00000742,0.00015310,0.00000004,-0.00003138,-$ $0.00007345,-0.00000001,0.00002852,-0.00005658,-0.00000002,-$ $0.05005042,0.03413250,0.00002550,0.01068358,0.00227700,0.00000007,-$ 0.00000583,0.00001055,0.,-0.00011808,-
$0.00006092,0.00000002,0.00007076,0.00000833,-$
0.00000002,0.00003094,0.00004492,0.,-0.00000661,-0.00001031,0.,-
0.26001576,0.18731389,0.00013589,0.30297569,0.00000788,-0.00003420,0.,-
0.00001813,0.00006515,0.00000003,0.00004036,-0.00008046,-0.00000004,--
0.00007185,0.00008635,0.00000006,0.00005855,-0.00002042,0.,-
0.00001639,0.00002374,0.,0.00006733,-0.00018595,-
$0.00000012,0.00017439,0.00014753,0 .,-0.00005783,-0.00045045,0 .,-0.00349938,-$
$0.00190885,-0.00000422,-0.00037124,0.00058350,0.00000011,-$
0.00023622,0.00003566,0.00000033,-
$0.00004757,0.00003002,0.00000005,0.00001031,-0.00001021,-$
$0.00000002,0.00019862,0.00051466,0.00000038,-0.00005376,0.00002381,-$
$0.00000010,0.00000400,-0.00000088,0 ., 0.00000253,0.00000241,0 .,-$
0.00000390,0.00000003,0.,0.00000309,0.00000049,0.,0.00000119,0.00000164,0.,-
0.00000082,-0.00000160,0.,-0.00000027,-
$0.00000039,0 ., 0.00000052,0.00000014,0 .,-0.00000038,0.00000056,0 .,-0.00000153,-$
0.00000046,0.,0.00000346,-0.00001089,0.,0.00000259,-
$0.00000786,0 ., 0.00000443,0.00000630,0 ., 0.00000064,-0.00001505,0 .,-0.00000304,-$ $0.00000203,0 .,-0.00000606,0.00000019,0 .,-0.00000199,0.00000280,0 ., 0.00000037,-$
$0.00000040,0 ., 0.00000361,0.00000773,0 ., 0.00000058,-$
$0.00000276,0 ., 0.00001681,0.00002518,0 .,-0.00001542,-0.00001402,0 .,-$
$0.00000462,-0.00000464,0 .,-0.01805710,0.02346247,0.00001300,0.00222166,-$
$0.00533594,0.00000066,0.00000132,0.00000035,0 .,-$
$0.00001191,0.00000580,0 ., 0.00000915,-0.00000392,0 ., 0.00000203,-0.00000467,0 .,-$ $0.00000079,0.00000090,0 ., 0.23781425,-0.25938189,-0.00017046,-$
0.21816948,0.24245054,0.00000002,0.00000003,-0.00001877,-0.00000004,0.00000003,0.00001754,0.00000002,0.,-0.00002001,-$0.00000001,0.00000003,-0.00000461,0.00000001,0 .,-0.00002520,-0.00000001,-$ $0.00000002,0.00003437,0.00000006,-0.00000008,-$
$0.00000651,0.00000006,0 ., 0.00015928,-0.00000011,0.00000002,-0.00045748,-$ $0.00000142,-0.00000416,0.00539442,-0.00000022,0.00000007,0.00045887,-$ $0.00000017,0.00000023,-0.00042703,-0.00000003,0.00000004,-0.00005080,0 .,-$ $0.00000001,0.00002932,0.00000010,0.00000041,-0.00023247,0 .,-$
0.00000009,0.00017624,0.00000001,-0.00000002,-0.00000027,-0.00000001,0.,-0.00000207,0.00000002,0.00000001,-0.00000403,0.,0.,-
0.00000256,0.,0.,0.00000041,0.00000002,0.,-0.00000143,0.,0.,0.00000226,-0.00000002,0.,0.00000158,-0.00000001,0.,0.00000552,0.,0.,0.00000316,0.,-0.00000003,-0.00000111,0.,0.,-0.00000539,0.00000002,0.,-0.00000346,-
$0.00000001,0 ., 0.00000058,0 ., 0 .,-0.00000165,0.00000002,0 .,-$
$0.00000207,0 ., 0 ., 0.00000233,-$
$0.00000001,0 ., 0.00000175,0 ., 0 ., 0.00000811,0 ., 0 ., 0.00000434,0 ., 0 ., 0.00000568,0 ., 0$.
,-0.00000708,0.,0.,-0.00000494,-
$0.00000766,0.00000940,0.00460345,0.00000009,0.00000055,-$
0.00657486,0.,0.,0.00000425,0.,0.,0.00000460,0.,0.,-0.00000402,0.,0.,-
0.00000583,0.,0.,0.00000427,0.00016793,-0.00016675,-0.01644473,-
$0.00015866,0.00016036,0.01338606 \backslash 1-0.00004672,0.00004302,-$
$0.00000081,0.00008463,-0.00002983,-0.00000058,-0.00001776,0.00000692,-$
$0.00000090,-0.00001911,-0.00001622,0.00000456,-0.00004706,0.00001581,-$
$0.00000168,0.00000010,-0.00001073,0.00000375,0.00005216,0.00001776,-$
$0.00000260,0.00007686,-0.00003255,0 ., 0.00001262,0.00001439,0.00000048,-$
$0.00006389,-0.00002589,0.00000043,-0.00006741,0.00003664,0.00000029,-$
$0.00001838,-0.00001027,-0.00000091,-0.00002190,0.00001204,0.00000054,-$
$0.00003098,-0.00000558,0.00000018,0.00001719,-$
0.00001763,0.00000017,0.00002672,0.00000670,-0.00000014,0.00000039,-
0.00002213,-0.00000167,0.00005539,-0.00004358,0.00000023,0.00001476,-
0.00000225,-0.00000061,-
0.00006018,0.00004409,0.00000082,0.00001565,0.00002186,-0.00000060,-0.00000924,0.00001076,-0.00000059,0.00001851,0.00000030,-0.00000023,--$0.00000273,-0.00000195,0.00000047,-0.00001248,-0.00001121,0.00000025,-$ $0.00001886,-0.00000060,-0.00000026,-0.00001040,0.00005847,0.00000026,-$ $0.00000879,-0.00000477,-0.00000014,0.00005071,0.00000827,-$
$0.00000016,0.00003468,-0.00003969,-0.00000092,0.00001917,0.00001209,-$
$0.00000011,-0.00007143,0.00000342,0.00000040,0.00004538,-0.00003481,-$
0.00000053,-0.00001756,-0.00000938,-
0.00000011,0.00001399,0.00001188,0.00000014,-0.00000978,-0.00000392,-$0.00000025,-0.00000333,-0.00001219,0.00000363,-0.00002659,0.00001497,-$ 0.00000160,0.00001000,0.00002067,-0.00000060,0.00007494,-0.00000592,-0.00000263,-0.00000588,-0.00000225,0.00000091,0.00000612,-0.00001053,-$0.00000030,-0.00003242,-0.00002074,0.00000122,-0.00000529,-0.00000465,-$ $0.00000047,0.00003165,-0.00000130,-0.00000029,-0.00000233,-0.00000542,-$ $0.00000006,-0.00004189,0.00002520,0.00000114,0.00001079,0.00000074,-$ $0.00000013 \backslash \backslash @ 3,0.00004634,0.00002374,0.00001733,-0.00000283,-0.00003482,-$
$0.00003998,0.00002369,0.00001148,0.00003239,0.00001212,-$
$0.00000320,0.00001292,-0.00002157,0.00001475,-0.00002025,-0.00002222,-$
0.00001067,0.00003224,0.00000121,-0.00000962,-0.00001135<br>\@

## TATB (1,3,5-triazine-2,4,6,-tribenzoic acid)

The BTB molecule was optimized using Gaussian® 09 [ $\left.{ }^{7}\right]$ with B3LYP//6-31G*.

| Energy: | -965912.4624218 |  |  |
| :--- | ---: | ---: | ---: |
| N | -0.31172 | 1.33316 | 0.00010 |
| C | 0.95712 | 0.89757 | 0.00012 |
| N | 1.31008 | -0.39655 | 0.00015 |
| C | 0.29846 | -1.27761 | 0.00013 |
| N | -0.99878 | -0.93623 | 0.00011 |
| C | -1.25600 | 0.38039 | 0.00011 |
| C | 0.63612 | -2.72290 | 0.00008 |
| C | 1.97738 | -3.13740 | 0.00040 |
| C | 2.29624 | -4.49078 | 0.00035 |
| C | 1.27525 | -5.45157 | -0.00005 |
| C | -0.06509 | -5.04180 | -0.00038 |
| C | -0.38269 | -3.68972 | -0.00030 |
| H | -1.41640 | -3.36476 | -0.00054 |
| H | 2.75925 | -2.38714 | 0.00070 |
| H | 3.33293 | -4.80800 | 0.00062 |
| H | -0.84159 | -5.79938 | -0.00068 |
| C | -2.67650 | 0.81061 | 0.00006 |
| C | -3.00440 | 2.17634 | -0.00005 |
| C | -3.70617 | -0.14360 | 0.00014 |
| C | -5.03766 | 0.25700 | 0.00011 |
| C | -5.35924 | 1.62159 | -0.00001 |
| C | -4.33413 | 2.57740 | -0.00009 |
| H | -2.20618 | 2.90914 | -0.00012 |
| H | -4.60177 | 3.62872 | -0.00017 |
| H | -3.44761 | -1.19591 | 0.00024 |
| H | -5.83068 | -0.48225 | 0.00017 |
| C | 2.04007 | 1.91251 | 0.00008 |
| C | 3.38673 | 1.51348 | 0.00001 |
| C | 4.39900 | 2.46441 | -0.00006 |
| C | 4.08397 | 3.83013 | -0.00004 |
| C | 2.74146 | 4.23409 | 0.00003 |
| C | 1.72867 | 3.28138 | 0.00009 |
| H | 0.68806 | 3.58361 | 0.00013 |
| H | 2.49780 | 5.29051 | 0.00004 |
| H | 3.62219 | 0.45578 | -0.00001 |
| H | 5.44324 | 2.17042 | -0.00013 |
| C | 5.20817 | 4.80548 | -0.00013 |
| O | 6.38544 | 4.50696 | -0.00027 |
|  |  |  |  |


| O | 4.79028 | 6.09682 | -0.00006 |
| :--- | ---: | ---: | ---: |
| C | 1.55839 | -6.91272 | -0.00014 |
| O | 0.71162 | -7.78338 | -0.00051 |
| H | 5.60203 | 6.63716 | -0.00015 |
| C | -6.76624 | 2.10688 | -0.00004 |
| O | -7.09701 | 3.27549 | -0.00015 |
| O | -7.67503 | 1.09874 | 0.00004 |
| H | -8.54915 | 1.53098 | 0.00000 |
| O | 2.88583 | -7.19581 | 0.00027 |
| H | 2.94847 | -8.16894 | 0.00017 |

1\1\GINC-ACID10\Freq\RB3LYP\6-31G(d)\C24H15N3O6\WINKLER\13-Sep2016\0<br>\#N Geom=AllCheck Guess=TCheck SCRF=Check GenChk RB3LYP/631G(d) Freq<br>Title<br>0,1\N,1.1401903877,0.7577732869,0.0144617401\C,0.0826720638,1.3094158965,0.0143 672534\N,1.2261866429,0.608207938,0.0139165625\C,1.092513972,-
$0.7266172174,0.0135180922 \backslash \mathrm{~N},-0.0865112887,-1.3663533129,0.0135674073 \backslash \mathrm{C},-$
1.1756840739,-0.5831834696,0.014062193\C,2.3284296408,-
$1.5484450986,0.012919009 \backslash C, 3.5896133783,-$
$0.9318426151,0.0131400316$ IC,4.7488770009,-
1.6995803864,0.0125841997\C,4.662984125,-
3.0989243532,0.0117735747\C,3.4057109758,-
$3.7183505391,0.0115475627 \backslash C, 2.2482616759,-$
$2.9506941969,0.0121261525 \backslash \mathrm{H}, 1.2724924368,-$
$3.4219046119,0.0119727392 \backslash \mathrm{H}, 3.6454627214,0.150323436,0.0137592061 \backslash \mathrm{H}, 5.721$ 5124362,-1.2206940972,0.012772477\H,3.3587886788,-
4.8021754951,0.010916616\C,-2.5053637508,-1.2426068299,0.0141250296\C,-
3.6796776068,-0.4720637117,0.0145208426\C,-2.6020892048,-
2.6431064378,0.0137975795\C,-3.8466351731,-3.2631476504,0.0138667694\C,-
$5.0155556488,-2.4891041075,0.0142592757 \backslash \mathrm{C},-4.9232500296,-$
$1.0905654,0.0145853889 \backslash \mathrm{H},-3.5999529373,0.6085848988,0.0147695643 \backslash \mathrm{H},-$
$5.8383092278,-0.5078432348,0.01489579461 \mathrm{H},-1.6929648434,-$
3.2327680685,0.0135025055\H,-3.9181455502,-
$4.344924074,0.0136126733 \backslash C, 0.1766135797,2.7906499402,0.0147616084 \backslash \mathrm{C}, 1.431$ 1330907,3.4222270386,0.0145904612\C,1.5174236803,4.8084132122,0.014930077
\C,0.3525028282,5.5877730851,0.015457089\C,-
$0.9023745657,4.9626204397,0.0156335346$ IC,-
$0.9878215806,3.574781762,0.0152833484 \backslash \mathrm{H},-$
1.9530418665,3.0822856712,0.015399103\H,-
1.803450182,5.5654879992,0.0160356863\H,2.3271184832,2.8128174366,0.01418 16237\H,2.4796510128,5.3094018123,0.0147898087\C,0.5036221955,7.068404954 9,0.0157950049\O,1.5658812784,7.6572063633,0.0155856007\O,-
$0.6853021335,7.7231128823,0.0163394529 \backslash C, 5.8700371511,-$
$3.9696517089,0.0111345348 \backslash \mathrm{O}, 5.849362635,-5.1839991961,0.0103906983 \backslash \mathrm{H},-$ $0.463908874,8.6727906505,0.0164876452 \backslash \mathrm{C},-6.3731260866,-$
$3.0991589712,0.0143503532 \backslash О,-7.4145149093,-2.4742097096,0.0146787463 \backslash \mathrm{O},-$
$6.3448330076,-4.4561548059,0.0140134191 \backslash \mathrm{H},-7.2777858606,-$
4.7398863844,0.0141027738\O,7.0311450898,-
3.2667551767,0.0114906088\H,7.7432820157,-
3.9329178437,0.0110185815<br>Version=EM64L-G09RevD.01\State=1-A\HF=$1539.2795012 \backslash R M S D=3.353 \mathrm{e}-09 \backslash \mathrm{RMSF}=2.425 \mathrm{e}-$
05\ZeroPoint=0.353128\Thermal=0.3798692\Dipole $=0.000178,0.0001152,0.0002695$
\DipoleDeriv=-1.210724,-0.6152929,0.0000576,-0.6220184,-1.7277905,-
$0.0003074,0.0000229,-0.0003112,-0.2255822,1.0180206,0.0907227,-$
$0.0001646,0.1001259,2.5006834,0.0006468,-0.0001254,0.0006066,0.2069222,-$
$1.062974,0.5364137,0.0003587,0.5299413,-1.8762089,-0.0006257,0.0003583,-$
$0.0006043,-0.2255565,2.047764,-0.6945062,-0.0006813,-$
0.6850411,1.4710996,0.0005511,-0.0007075,0.0005846,0.2069031,-
$2.1347291,0.088729,0.0004829,0.0822808,-0.8041025,-0.0001821,0.0005029,-$
0.0002203,-0.2256463,2.2120155,0.589633,-
$0.0002788,0.5993992,1.3058623,0.0001989,-0.0002735,0.0002351,0.2069536,-$ $0.4290899,0.2965724,0.0002084,0.3051353,-0.190102,-0.0001275,0.000227,-$
$0.0001288,-0.0056582,-0.1222136,-0.1219315,-$
$0.000069,0.1283589,0.0349678,0.000068,0.0000272,0.0001133,-$
$0.0909517,0.1598189,0.1068629,0.0000459,-0.0449429,-0.0837249,0.0000097,-$
$0.0000449,-0.0000086,-0.0952467,-0.5986359,0.3961427,0.0002833,0.3683137,-$
$0.2265807,-0.0001771,0.0002785,-0.0001959,0.027497,-0.0851579,-0.130016,-$
$0.0000842,0.0381956,0.1260025,0.0001198,0.0000207,0.0001451,-$
0.08905,0.0251101,0.180297,0.0000913,-0.095603,-0.0834763,0.0000092,-
0.0000234,-0.0000565,-0.0917801,0.0321306,-0.0680369,-0.000034,-
$0.0909183,0.0993617,0.0000042,-0.0000595,0.0000185,0.1071221,0.145912,-$
$0.0444874,-0.0000218,-0.0200635,-0.0146226,-0.0000714,0.0000075,-$
$0.0000783,0.1072515,-0.0118374,-0.0351772,-0.0000123,-0.05966,0.0685454,-$
$0.0000223,-0.0000182,-0.0000261,0.1149721,0.0970967,-0.0041579,-0.0000003,-$
$0.0066672,-0.0134523,-0.0000712,-0.0000066,-0.0000719,0.1137622,-0.5104198,-$
$0.2581996,0.0000303,-0.2499225,-0.1089535,0.0000199,0.0000279,0.0000205,-$
0.0056369,-0.0925183,0.1639194,0.0000392,-0.1119051,0.0348409,0.0000517,-
$0.000048,-0.0000095,-0.0917511,-0.0072548,-0.1948991,-0.0000538,0.0555051,-$
0.0800769,-0.0000092,0.0000164,0.0000397,-0.0910096,-
$0.0491455,0.1660016,0.0000282,0.0141455,0.1259005,0.0000531,-$
$0.0000055,0.0000319,-0.0952089,-0.6508306,-0.3382924,0.0000462,-0.3661068,-$
$0.1745914,0.0000162,0.0000293,0.0000061,0.0275291,0.1127207,-0.1527594,-$
$0.0000724,0.015485,-0.0721267,0.0000062,-0.0000328,0.0000366,-$
$0.0891309,0.151298,0.0219987,-0.0000043,-0.0010644,-0.0201463,-0.0000302,-$ 0.000001,-
$0.0000329,0.1071566,0.0188141,0.0517559,0.0000303,0.0493616,0.0648186,-$
0.0000209,0.0000325,-
0.0000208,0.1137735,0.0532242,0.0734116,0.0000255,0.0980289,0.0779427,-0.0000283,0.0000213,-0.0000261,0.1072531,0.0894919,0.0011523,0.0000061,-$0.0235541,-0.0329952,-0.0000326,-0.0000028,-0.0000396,0.1149961,0.0108377,-$ $0.0515807,-0.0000204,-0.0428106,-0.629742,-0.0001688,-0.0000167,-0.0001473,-$ $0.0056357,-0.0196233,0.0698423,-0.0000019,-0.2061233,-0.0386422,0.0000738,-$ $0.0000741,0.0000063,-0.0917948,0.0332483,0.0304038,-$
$0.000022,0.1984513,0.0068945,-0.0000349,0.0000153,0.0000148,-$
$0.0890611,0.0116123,-0.0165581,0.0000002,-0.0441625,-0.8364513,-0.0002282,-$
$0.0000043,-0.000223,0.0275511,0.0040178,-0.044901,-0.0000416,-$
$0.1967427,0.0722823,0.0001005,-0.0000809,0.0000469,-0.0952317,-0.0015851,-$
$0.0584971,-0.0000433,0.1915343,-0.0862048,-0.000055,0.0000321,0.0000029,-$
0.0910056,-0.0024941,-0.0656787,0.0000131,-
0.0410995,0.133812,0.0000226,0.0000151,0.000032,0.1073014,0.0073656,0.07077

12,0.0000492,0.0463324,0.0491937,-0.0000323,0.0000403,-
$0.0000341,0.1149561,0.0136625,0.0802656,0.000048,0.0574902,0.1177264,-$ $0.0000102,0.0000398,-0.0000232,0.1071045,0.0096054,-0.0438552,0.0000183,-$ $0.0463208,0.0742836,0.0000034,0.000017,-0.0000018,0.1137501,1.4105558,-$ $0.2218204,-0.0004236,0.0130127,2.5942913,0.0006288,-$
$0.0003555,0.0006666,0.3089096,-0.8608325,-0.2881756,0.0000832,-0.3184617,-$ $1.2868034,-0.0001541,0.0000887,-0.0001453,-0.3589523,-$
$0.8709257,0.67363,0.0003496,0.406261,-1.0838923,-0.0003359,0.0002639,-$
$0.0004018,-0.373668,2.3890847,-0.5778251,-0.0004804,-$
0.34244,1.6159015,0.0008467,-0.0003653,0.0008601,0.3090049,-
0.9177588,0.3514626,0.0002487,0.3210609,-1.2298294,-0.0005693,0.0002365,-
0.0005649,-0.3589607,0.2672122,-0.172352,-0.0000202,-
0.0587129,0.3208331,0.0000175,0.0000078,0.0000546,0.3444294,2.2074495,0.446 8997,-0.0002339,0.6822151,1.7970065,0.0002279,-
$0.0001643,0.0002803,0.3089555,-1.4429043,-0.0176935,0.00019,-0.0480756,-$
$0.7045125,-0.0000719,0.0001738,-0.0000782,-0.3589447,-0.5625888,-0.2278773,-$
0.0000187,-0.495374,-1.3919023,-0.0001499,-0.0000858,-0.0002054,-
0.3736968,0.2071159,0.0240365,0.0000287,0.1375968,0.3807331,-
0.0000168,0.0000565,0.0000023,0.3443992,-1.4982691,-0.0442795,0.0000348,-
$0.3119162,-0.4566652,-0.0000354,-0.0001199,-0.0000493,-0.3736976,0.4073195,-$
$0.0220735,-0.0000149,0.0914759,0.1806054,-0.0001079,0.0000564,-$
$0.0001001,0.3443955 \backslash$ Polar $=446.9067805,0.0180639,446.892825,-$
$0.0762888,0.1165874,93.4008988 \backslash \mathrm{PG}=\mathrm{C} 01$
$[\mathrm{X}(\mathrm{C} 24 \mathrm{H} 15 \mathrm{~N} 3 \mathrm{O} 6)] \mathrm{NImag}=0 \backslash \backslash 0.50472257,0.10594955,0.59404347,-$
0.00005752,0.00013413,0.08014146,-0.28447892,-
$0.05522986,0.00002640,0.66977273,-0.07956120,-0.15801472,-$
$0.00000716,0.00134191,0.69078305,0.00001959,-0.00001322,-0.07744945,-$
$0.00009882,0.00014218,0.20394599,-0.08822505,-0.02232739,0.00002039,-$
0.26608376,0.09330199,0.00006681,0.48034977,0.04298793,0.07421023,0.000000

12,0.06896013,-0.17699441,-0.00004189,-
0.09166652,0.61893349,0.00004086,0.00001689,0.03929774,0.00005864,-$0.00004830,-0.07744917,-0.00011064,0.00018725,0.08015024,-0.02028028,-$ $0.04909587,-0.00001258,0.04248898,0.04538520,0.00000409,-0.13110533,-$
$0.00885621,0.00000937,0.68429911,-0.04911448,-0.06149620,-$
$0.00000322,0.10133129,-0.06867569,-0.00004539,-0.03317610,-0.31127145,-$
$0.00006728,-0.01006770,0.67586867,-0.00001453,-0.00000517,-$
$0.01282255,0.00002419,-0.00003291,0.00467300,0.00000019,-0.00007455,-$
0.07736810,-
0.00010871,0.00016771,0.20390491,0.04244888,0.09793553,0.00002952,-
$0.09366841,0.00654633,0.00001997,0.02464323,-0.10817000,-0.00003158,-$
$0.26976714,-0.06674502,0.00002126,0.66447971,0.03258743,-0.05658676,-$
0.00003725,0.00657799,0.01182836,0.00000612,-0.04287126,-0.03869911,-
$0.00001616,-0.09120283,-0.17327571,-0.00001318,-$
0.01420185,0.43526463,0.00001039,-
$0.00005024,0.03928892,0.00001890,0.00000626,-0.01277543,-0.00001050,-$ $0.00000095,0.03926689,0.00001232,-0.00001796,-0.07740056,-$
$0.00013589,0.00012044,0.08009833,-0.12879909,-$
0.01436921,0.00000596,0.02249222,-0.05683987,-0.00002148,-
$0.00868660,0.04238709,0.00001344,-0.10407406,-0.01645948,0.00001949,-$
0.24840967,0.10053918,0.00007086,0.68660416,0.01005159,-0.31382538,-
$0.00007383,-0.11279424,-0.04854265,0.00000861,0.04241640,-0.07311857,-$
0.00002864,0.03950513,0.07825541,0.00001618,0.07608466,-0.19442149,-$0.00005705,0.00885214,0.67336294,0.00001339,-0.00006897,-0.07735138,-$ 0.00003859,-0.00000450,0.00464462,0.00001198,-0.00002794,-
$0.01279760,0.00003578,0.00002574,0.00457868,0.00006323,-0.00005988,-$
$0.07743266,-0.00010110,0.00014291,0.20385939,-$
$0.00231208,0.00377708,0.00000038,0.00447125,-$
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0.17479266,0.04939993,0.00003885,-
0.05398864,0.01105341,0.00001824,0.00288934,-0.00818489,-
0.00000138,0.65980684,0.00377814,0.00087873,0.00000140,-0.00751646,-$0.00306656,-0.00000296,0.03559490,-0.04211203,-0.00002396,0.04946328,-$ $0.13343469,-0.00003868,-0.00754467,0.01630379,0.00000562,-0.00664485,-$ $0.00150608,-0.00000183,0.03100666,0.68435844,0.00000046,0.00000022,-$ $0.00487077,-0.00000096,-0.00000286,0.00906214,0.00001223,-$
$0.00001871,0.00425049,0.00004048,-0.00003972,-$
$0.07237937,0.00001145,0.00000202,0.00426433,-0.00000187,-$
$0.00000097,0.00907243,-0.00004288,0.00028754,0.15612996,-0.00044331,-$
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0.03608624,0.00025974,0.00000363,0.00417674,0.00207003,-0.00000039,-$0.00326640,0.00287397,0.00000249,-0.27072475,-0.05275255,-$
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$0.00000266,0.01268942,0.01949976,0.00000793,0.00665112,-0.00304397,-$ $0.00000391,0.00018451,0.00077303,-0.00000039,-0.10775867,-0.17034806,-$ $0.00004695,-0.01473369,0.75501598,-0.00000004,-0.00000019,-0.00005650,-$ $0.00000002,0.00000061,-0.00025560,0.00000018,-$
$0.00000162,0.00096430,0.00001262,0.00000882,0.00227790,0.00000373,-$
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0.00005296,-0.06663741,-
0.00006210,0.00035777,0.13614129,0.00086688,0.00101972,0.00000036,-0.00117500,0.00084744,0.00000006,0.00200367,-0.00096880,-0.00000013,-$0.00090230,-0.00593641,-0.00000275,-$
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$0.00000120,0.00000094,-$
$0.00077374,0.00002593,0.00003234,0.00672893,0.00005989,-0.00009310,-$ $0.06043954,-0.00004404,0.00031481,0.13454634,-$
$0.00039683,0.00133487,0.00000071,-0.00047625,-0.00158277,-0.00000041,-$
$0.00067182,0.00075620,0.00000020,0.00185633,-0.00257998,-0.00000196,-$
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0.12860277,0.00805387,0.00001097,0.65967448,0.00126886,0.00074105,0.000000 28,-0.00186806,0.00137883,0.00000032,0.00228070,-0.00234534,-0.00000087,-$0.00229113,-0.00051604,0.00000008,-0.00051600,0.00016877,0.00000011,-$ $0.00025819,-0.00144783,-0.00000058,-0.02790483,-0.04159458,-$
$0.00001561,0.07096998,-0.03355737,-0.00003222,-0.04969830,-0.31951878,-$ $0.00014599,0.03305792,0.69197501,0.00000079,0.00000032,0.00004667,-$ $0.00000103,0.00000103,0.00001897,0.00000149,-0.00000148,-0.00013177,-$
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$0.00762496,0.00003822,-0.00002625,0.00756297,-0.00002243,-0.00015162,-$ $0.06253867,-0.00003435,0.00031945,0.14358170,-0.00120272,-0.00095131,-$ $0.00000060,0.00256940,-0.00085041,-0.00000025,-$
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$0.00000139,0.00036572,-0.00055437,-0.00000050,-$
$0.00057042,0.00113129,0.00000108,0.03467783,0.07044273,0.00003618,-$ $0.06561335,0.00543967,0.00000937,0.02711818,-0.07726950,-0.00004646,-$ $0.27549719,-0.05430138,-$
$0.00000833,0.67955284,0.00016361,0.00087006,0.00000005,-0.00072252,-$ $0.00060484,0.00000078,0.00207067,-0.00153364,-0.00000125,-0.00391750,-$ 0.00499281,-0.00000612,-0.00159085,0.00134627,0.00000177,0.00105181,-$0.00033099,-0.00000040,0.02548414,-0.03246095,-0.00002598,0.00427859,-$ $0.00117979,0.00000244,-0.03358856,-0.01958232,-0.00001281,-0.11223718,-$ 0.17049537,-0.00005026,-0.01535241,0.75575876,0.00000041,0.00000094,-$0.00004117,-0.00000131,-0.00000014,-0.00077420,0.00000197,-$
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$0.00000041,0.30787928,-0.00004334,-0.00005767,-$
$0.00000001,0.00003997,0.00002093,0.00000005,-0.00008232,-0.00001053,-$ $0.00000011,0.00054057,0.00078458,0.00000030,0.00035211,-0.00017855,-$ $0.00000001,0.00005535,0.00009925,0.00000006,0.00311903,-0.00188852,-$
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0.00000462,0.00777194,0.00000030,0.00000063,-0.00034463,-0.00000007,--$0.00000259,0.00560235,-0.00000100,-0.00000527,0.00381650,-0.00000670,-$ $0.00017823,-0.03909957,-0.00000169,-0.00001105,0.00335993,-$
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$0.00003890,0.00001352,0.00000004,-0.00001024,0.00001622,0 ., 0.65102192,-$ $0.04057912,-0.03490320,-0.00000381,0.00636922,-0.00463293,-0.00000555,-$ $0.00326899,0.00174763,0.00000269,0.00589723,-0.00325681,-$ $0.00000569,0.01629163,0.01565319,0.00000040,-0.04266977,-0.12152211,-$ $0.00000501,0.00077406,0.00111798,0.00000027,0.00026044,-0.00036363,-$ 0.00000018,0.00009503,0.00014361,0.00000011,-0.00003384,0.00001055,0.,-0.00000354,0.00000545,0.,-0.00009674,-
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0.00000010,-0.00000682,0.00000002,-0.00000005,-0.00000705,-0.00000007,-
0.00000004,0.00000032,0.00000005,-0.00000007,-
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$0.00000257,0.02704938,-0.02778668,-0.00001553,-0.00300517,-0.00141847,-$ $0.00000031,-0.00036018,-0.00357786,-0.00000101,0.00145688,0.00002177,-$ $0.00000038,0.00148016,0.00168350,0.00000046,-0.00033555,-0.00023357,-$ 0.00000001,0.00001263,0.00004583,0.00000002,0.00001930,-0.00003776,-$0.00000002,0.00010360,0.00000811,-0.00000002,-0.00012360,-$ $0.00002236,0 ., 0.00024563,-0.00014630,-0.00000009,-0.00000743,0.00001910,0 .,-$ $0.00003314,-0.00001439,-0.00000001,0.00000492,0.00000207,0 ., 0.00001231,-$ 0.00001034,-0.00000001,-0.00008467,-0.00003890,-0.00000002,-0.00005280,-
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$0.11654675,0.00000934,0.12490020,0.12164721,0.00000038,-0.00000032,-$ $0.00006058,-0.00000075,0.00000159,-0.00353481,-0.00000024,0.00000011,-$ $0.00016152,0.00000020,-0.00000008,0.00024715,-$
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0.00000029,-0.00324850,-0.00414106,0.00000132,-
0.00099865,0.00102857,0.00000074,0.00001957,0.00009346,-
$0.00000031,0.27277586,0.00042654,0.00017092,0.00000004,0.00042613,0.000193$ $27,0.00000089,-0.00217033,-0.00250393,-0.00000023,0.00034968,-0.00063082,-$ $0.00000017,0.00043979,0.00024529,-0.00000010,-0.00022212,-0.00002448,0 .,-$ $0.00007540,0.00005036,0.00000006,-0.00010950,-0.00024878,-$
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0.00000052,0.00000062,-0.00348046,-0.00000070,-0.00000107,-0.00005395,-
0.00000030,0.00000012,-0.00045006,0.00000009,-
$0.00000017,0.00031180,0.00000003,-0.00000007,0.00024151,-0.00000003,-$
$0.00000003,-0.00003161,-0.00000003,0.00000020,-0.00010717,0.00000001,-$
$0.00000003,-0.00001618,0 ., 0 ., 0.00001190,0 ., 0 .,-0.00000272,-0.00000001,0 .,-$
$0.00000904,0 ., 0 ., 0.00000163,-$
$0.00000002,0 ., 0.00025761,0 ., 0 ., 0.00000697,0 ., 0 ., 0.00000484,0 ., 0 .,-0.00001415,0 .,-$ 0.00000001,0.00000026,0.,0.,-0.00000555,-0.00000002,0.,-
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0.00000345,0.,0.,0.00000167,0.,0.,0.00000281,0.,0.,0.00000514,0.,0.,0.00000179,0. 00000347,-0.00000231,0.00351535,0.00009667,-0.00006569,-
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$0.00000330,0.00000036,0 ., 0.00000119,0.00000021,0 .,-0.00000889,-0.00000418,-$ $0.00000001,0.00000061,-$
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$0.00143734,0.00055300,0.00000047,0.00017978,-0.00011853,-0.00000008,-$ $0.00010722,0.00009002,0.00000003,0.00010445,-0.00008018,-0.00000004,-$
$0.00012273,0.00013250,0.00000004,0.00000549,-0.00001661,0 ., 0.00001752,-$
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0.00000285,0.00001154,0.,-0.00001429,-0.00001766,0.00000002,0.00001135,-$0.00000980,0 ., 0.00000216,-0.00000033,0 ., 0.00000918,-0.00005254,-0.00000001,-$ $0.00000358,-0.00000692,0 .,-0.00002229,0.00000706,0 .,-0.00000090,-$
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0.000000027,0.00031651,0.00116268,0.00000133,0.12497905,0.12247027,-
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0.00000027,0.00033593,-0.00000084,-0.00000036,-
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0.00000772,-0.00000001,0.,0.00000572,-0.00016051,0.00014753,0.20031556,-
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0.00000002,0.00000565,0.00000003,0.00000004,0.00000767,-0.00000002,-0.00000003,-0.00001306,0.,0.00000001,-0.00000652,0.,-0.00000001,-0.00000312,-
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0.00000002,0.00000682,0.00000010,-0.00000012,-0.00000793,-
$0.00000003,0.00000008,0.00001001,0 ., 0.00000002,-0.00000493,0.00001450,-$ $0.00004614,-0.06104248,0.00001582,-0.00003632,0.02875468,-$
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$0.00000003,0.00000004,0.00000565,0 .,-0.00000003,-0.00000704,0 ., 0 ., 0.00000426,-$
$0.00001409,-0.00000548,0.00460698,0.00000088,0.00000272,-$
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$0.00000212,0.01340270,-0.00071838,0.00075311,0.00000029,0.00075442,-$
$0.00164954,-0.00000048,-0.00142363,0.00223622,0.00000099,0.00337244,-$
0.00234997,-0.00000160,-0.00244356,0.00066612,0.00000091,0.00166498,-
0.00035025,-0.00000049,-0.00187932,0.00027121,0.00000034,-
$0.00013070,0.00008873,-0.00000002,-0.00464720,-0.00101685,-0.00000018,-$ $0.04647438,-0.01226253,-0.00000372,0.00013933,0.00667881,0.00000401,-$ $0.00182405,0.00019476,0.00000050,-0.00046659,0.00030025,0.00000017,-$ $0.00013341,0.00025511,0.00000017,-$
$0.00196015,0.00187066,0.00000132,0.00126267,-0.00020493,-0.00000034,-$ 0.00025782,-0.00002326,0.,-0.00003209,-0.00012910,-0.00000003,-0.00000750,-0.00000568,0.00000002,-0.00001150,0.00006987,0.,-0.00027580,-
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$0.00000002,0.00013667,0.00006911,-0.00000001,0.00004258,-0.00007893,-$ $0.00000003,-0.00001505,0.00001629,0.00000002,-0.00007221,-0.00012947,-$
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$0.00000001,0.00063415,0.00034645,-0.00000006,-0.00037552,-$
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61,0.00000003,0.00000660,-0.00016144,-0.00000003,-
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Klene, J. E. Knox, J. B. Cross, V. Bakken, C. Adamo, J. Jaramillo, R. Gomperts, R. E. Stratmann, O. Yazyev, A. J. Austin, R. Cammi, C. Pomelli, J. W. Ochterski, R. L. Martin, K. Morokuma, V. G. Zakrzewski, G. A. Voth, P. Salvador, J. J. Dannenberg, S. Dapprich, A. D. Daniels, O. Farkas, J. B. Foresman, J. V. Ortiz, J. Cioslowski, D. J. Fox, Gaussian, Inc., Wallingford CT, 2013.
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