

# Acid/Acid Co-crystal Literature Systems

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## Systems that Form Co-crystals

- 2-methylbenzoic acid/2-chlorobenzoic acid - H. Lettre, *Chem. Ber.* **1936**, 1151 & D. Braga *et al.* *CrystEngComm.* **2008**, 1848.
- 3,4-dimethylbenzoic acid/3,5-diaminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 3-nitrobenzoic acid/ 3-bromobenzoic acid - H. Lettre, *Chem. Ber.* **1940**, 386
- 3-nitrobenzoic acid/3-chlorobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 3-nitrobenzoic acid/3-iodobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-cyanobenzoic acid/3,5-dimethoxybenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-nitrobenzoic acid/4-chlorobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-nitrobenzoic acid/4-bromobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 3,5-dimethoxybenzoic acid/3,5-diaminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-nitrobenzoic acid/4-iodobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-methyl 3-nitrobenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-hydroxy 3-nitrobenzoic acid/3,5-diaminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 3-nitrobenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-methyl 3-nitrobenzoic acid/4-methylbenzoic acid - D. Harper *et al.*, *J. Chem. Soc C.*, **1970**, 1784
- 3-nitrobenzoic acid/3-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-nitrobenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-methyl 3-nitrobenzoic acid/3,4-dimethylbenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-methyl 3-nitrobenzoic acid/3,5-diaminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 3-nitrobenoic acid/3-aminobenzoic acid (Salt) - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 3-nitrobenzoic acid/4-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-hydroxy 3-nitrobenzoic acid/4-amino 3-methoxybenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726
- 4-bromobenzoic acid/4-aminobenzoic acid - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 4-chlorobenzoic acid/4-aminobenzoic acid - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 4-cyanobenzoic acid/3,4-dimethylbenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-nitrocinnamic acid/3,4-dimethoxycinnamic acid - C.V.K. Sharma *et al.* *J. Chem. Soc. Perkin Trans. 2*, **1993**, 2209
- 4-nitrobenzoic acid/3-(dimethylamino)benzoic acid - C.B. Aakeröy *et al.* *CrystEngComm.* **2004**, 19-24
- 4-nitrobenzoic acid/3-aminobenzoic acid - C.K. Quah *et al.* *Acta Crystogr. Section E*, **2008**, o2333
- 4-nitrobenzoic acid/4-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386 & A.G. Pinkus *et al.*, *Chem. Commun.* **1986**, 1439
- 4-acetoxybenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 3-nitrobenzoic acid/4-methoxybenzoic acid (anisic acid) - H. Lettre, *Chem. Ber.*, **1940**, 1150
- 4-cyanobenzoic acid/3,5-diaminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-hydroxy 3-nitrobenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-nitrobenzoic acid/4-methoxybenzoic acid (anisic Acid) - H. Lettre, *Chem. Ber.*, **1940**, 1150
- 4-nitrobenzoic acid/4-methoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3-nitrobenzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-nitrobenzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 3-nitrobenzoic acid/4-amino 3-methoxybenozic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 4-methyl 3-nitrobenzoic acid/4-amino 3-methylbenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726

- 4-cyanobenzoic acid/4-aminobenzoic acid - K. Chadwick *et al.*, *Cryst. Growth Des.*, **2009**, 1278  
3-nitrobenoic acid/4-aminobenzoic acid - G. Smith *et al.*, *J. Chem. Cryst.*, **1997**, 307  
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4-cyanobenzoic acid/4-amino 3-methylbenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726  
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3-nitrobenzoic acid:4-amino 3-methylbenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726  
3,5-dinitrobenzoic acid/3,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439  
4-nitrobenzoic acid/4-(dimethylamino)benzoic acid - C.V.K. Sharma *et al.* *Chem. Commun.*, **1992**, 832.  
4-nitrobenzoic acid/4-(dimethylamino)cinnamic acid - C.V.K. Sharma *et al.* *J. Chem. Soc. Perkin Trans. 2*, **1993**, 2209  
3,5-dinitrobenzoic acid/4-t-butylbenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439  
3,4-dinitrobenzoic acid/3,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439  
3,5-dinitrobenzoic acid/3,5-diaminobenzoic acid (salt) - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726  
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3,5-dinitrobenzoic acid/4-(methylamino)benzoic acid hydrate - VR Pedirreddi *et al.* *Tetrahedron Lett.*, **2002**, 4927  
3,4-dinitrobenzoic acid/4-aminobenzoic acid - M.C. Etter *et al.*, *Chem. Mat.*, **1989**, 10  
3,5-dinitrobenzoic acid/4-(dimethylamino)benzoic acid - C.V.K. Sharma *et al.* *J. Chem. Soc. Perkin Trans. 2*, **1993**, 2209 & A. Parkin *et al.*, *Cryst. Growth Des.*, **2007**, 531  
3,5-dinitrobenzoic acid/4-(dimethylamino)cinnamic acid - C.V.K. Sharma *et al.* *J. Chem. Soc. Perkin Trans. 2*, **1993**, 2209  
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4-chloro 3,5-dinitrobenzoic acid/4-aminobenzoic acid - M.C. Etter *et al.* *Tetrahedron Lett.*, **1989**, 3617  
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4-methoxybenzoic acid (anisic acid)/2-nitrobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 1150  
benzoic acid/dichloroacetic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580 & J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722.  
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4-nitrodichlorohydrocinnamic acid/acetic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580  
benzoic acid/trichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
3-methylbenzoic acid/trichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
2-methylbenzoic acid/trichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
cinnamic acid:trichloroacetic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580 & J. Kendall *J. Am. Chem. Soc.*, **1914**, 1722  
4-methylbenzoic acid/trichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
cinnamic acid/dichloroacetic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580 & J. Kendall *J. Am. Chem. Soc.*, **1914**, 1722  
4-nitrodibromohydrocinnamic acid/acetic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580  
4-nitrodibromohydrocinnamic acid/propionic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580  
4-nitrodichlorohydrocinnamic acid/propionic acid - P. Pfeiffer, *Chem. Ber.*, **1914**, 1580  
2-methyl 3,5-dinitrobenzoic acid/2,4-dimethoxybenzoic acid - A.G. Pinkus, *Chem. Commun.*, **1986**, 1439

- 2-methyl 3,5-dinitrobenzoic acid/3,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 2-nitrobenzoic acid/2-aminobenzoic acid - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 2-nitrobenzoic acid/3-aminobenzoic acid (salt) - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 2-nitrobenzoic acid/4-aminobenzoic acid - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 2,4-dichlorobenzoic acid/4-amino 3-methylbenzoic acid - C.C. Seaton *et al.*, *Cryst Growth Des.*, **2010**, 726
- 2,4-dichlorobenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 2,4,6-trinitrobenzoic acid/1,3,5-trinitrobenzene/4-aminobenzoic acid - DE Lynch *et al.*, *Chem. Commun.*, **1992**, 300
- 2,5-dichlorobenzoic acid/2,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 2,5-dichlorobenzoic acid/3,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 2,6-dichlorobenzoic acid/2,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 2,6-dihydroxybenzoic acid/methyl red (1:1, only one half dimer) - D.E. Cohen *et al.*, *Cryst. Growth Des.*, **2007**, 492
- 2,6-dihydroxybenzoic acid/methyl red (2:1, only one half dimer) - DE Cohen *et al.*, *Cryst. Growth Des.*, **2007**, 492
- 3-nitrobenoic acid/2-aminobenzoic acid - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 3-nitrophthalic acid/4-amino 3-methoxybenzoic acid (salt) - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726
- 3,4-dinitrobenzoic acid/2,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3,4-dinitrobenzoic acid/2,4,6-dimethylbenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3,4-dinitrobenzoic acid/2,6-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3,5-dinitrobenzoic acid/2,4-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3,5-dinitrobenzoic acid/2,4,6-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3,5-dinitrobenzoic acid/2,6-dimethoxybenzoic acid - A.G. Pinkus *et al.*, *Chem. Commun.*, **1986**, 1439
- 3,5-dinitrobenzoic acid/phenoxyacetic acid hydrate - DE Lynch *et al.*, *Aust J. Chem.*, **1991**, 1017
- 3,5-dinitrocinnamic acid/2,5-dimethoxycinnamic acid - C.V.K. Sharma *et al.*, *J. Chem. Soc. Perkin Trans. 2*, **1993**, 2209
- 4-aminobenzoic acid/4-nitrophenoxyacetic acid - G. Smith *et al.*, *J. Chem Cryst.*, **1997**, 307
- 4-aminobenzoic acid/2-carboxyphenoxyacetic acid - K.A. Byriel *et al.*, *Aust. J. Chem.*, **1991**, 1459
- 4-aminobenzoic acid/nicotinic acid (Homodimers) - S.R. Jebas *et al.*, *Acta Crystogr. Section C*, **2006**, o5621
- 4-nitrocinnamic acid/2,5-dimethoxycinnamic acid - C.V.K. Sharma *et al.*, *J. Chem. Soc. Perkin Trans. 2*, **1993**, 2209
- benzoic acid/2-aminobenzoic acid (1:2) - E. Vitale, *Atti X<sup>o</sup> Congr. Intern. Chim.*, **1939**, 380
- benzoic acid/2,3,4,5,6-pentafluorobenzoic acid - L.S. Reddy *et al.*, *Chem - Asian J.*, **2007**, 205.

### Systems that do not Form Co-crystals

- 4-acetoxybenzoic acid/3,5-dimethoxybenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726.
- benzoic acid/3-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410
- 4-nitrobenzoic acid/3-nitrobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386
- 4-methoxybenzoic acid (anisic Acid)/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 1150
- 3-methylbenzoic acid/4-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410

- 4-methylbenzoic acid/4-methoxybenzoic acid (anisic Acid) - H. Lettre, *Chem. Ber.* **1940**, 1150  
3-Hydroxybenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.* **1937**, 1410  
3-bromobenzoic acid/4-bromobenzoic acid - H. Lettre, *Chem. Ber.* **1937**, 1410  
benzoic acid/3-aminobenzoic acid - E. Vitale, *Atti X° Congr. Intern. Chim.*, **1939**, 380  
benzoic acid/4-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
3-hydroxybenzoic acid/3-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1936**, 1151  
4-methylbenzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1936**, 1151  
4-bromobenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
4-chlorobenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
3-chlorobenzoic acid/3-Hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1936**, 1151  
3-chlorobenzoic acid/4-chlorobenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
3-bromobenzoic acid/3-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
benzoic acid/4-methoxybenzoic acid (anisic Acid) - H. Lettre, *Chem. Ber.*, **1940**, 1150  
(-) mandelic acid/ (+) 4-methoxymandelic acid - H. Lettre, *Chem. Ber.*, **1940**, 1150  
(+) mandelic acid/ (+) 4-methoxymandelic acid - H. Lettre, *Chem. Ber.*, **1940**, 1150  
(rac) mandelic acid/(rac) 4-methoxymandelic acid - H. Lettre, *Chem. Ber.*, **1940**, 1150  
4-hydroxybenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726  
3,5-diaminobenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726  
4-cyanobenzoic acid/4-acetoxybenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726  
3-chlorobenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
benzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
3-bromobenzoic acid/benzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
3,4-dimethylbenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726  
4-iodobenzoic acid/4-methoxybenzoic acid (anisic acid) - H. Lettre, *Chem. Ber.*, **1940**, 1150  
3,5-dimethoxybenzoic acid/3,4-dimethylbenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726  
3-hydroxybenzoic acid/4-hydroxybenzoic acid - H. Lettre *Chem. Ber.* **1937**, 1410  
4-bromobenzoic acid/4-methoxybenzoic acid (anisic acid) - H. Lettre *Chem. Ber.* **1940**, 1150  
4-chlorobenzoic acid/4-methoxybenzoic acid (anisic acid) - H. Lettre *Chem. Ber.* **1940**, 1150  
3-nitrobenzoic acid/3-hydroxybenzoic acid - H. Lettre, *Chem. Ber.* **1940**, 386  
4-bromobenzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
4-chlorobenzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1936**, 1151  
benzoic acid/4-aminobenzoic acid - E. Vitale, *Atti X° Congr. Intern. Chim.*, **1939**, 380  
4-amino 3-nitrobenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.* *Cryst. Growth Des.*, **2010**, 726  
3,5-dimethoxybenzoic acid/4-aminobenzoic acid - C.C. Seaton *et al.*, *Cryst. Growth Des.*, **2010**, 726  
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2-bromobenzoic acid/4-bromobenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
2-bromobenzoic acid/2-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
2-chlorobenzoic acid/2-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1936**, 1151  
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2-chlorobenzoic acid/4-chlorobenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
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2-hydroxybenzoic acid/4-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
2-methylbenzoic acid/3-methylbenzoic acid - H. Lettre, *Chem. Ber.*, **1937**, 1410  
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2-methylbenzoic acid/2-hydroxybenzoic acid - H. Lettre, *Chem. Ber.*, **1936**, 1151  
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2-nitrobenzoic acid/2-iodobenzoic acid - H. Lettre, *Chem. Ber.*, **1940**, 386  
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benzoic acid/acetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
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crotonic acid/dichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
crotonic acid/trichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
dichloroacetic acid/trichloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
phenylacetic acid/chloroacetic acid - J. Kendall, *J. Am. Chem. Soc.*, **1914**, 1722  
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### Systems that form Solid Solutions

2-nitrobenzoic acid/2-bromobenzoic acid (Partial) - H. Lettre, *Chem. Ber.*, **1940**, 386  
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4-bromobenzoic acid/4-chlorobenzoic acid - H. Lettre, *Chem. Ber.*, **1938**, 416  
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3-chlorobenzoic acid/3-iodobenzoic acid - H. Lettre, *Chem. Ber.*, **1938**, 416  
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