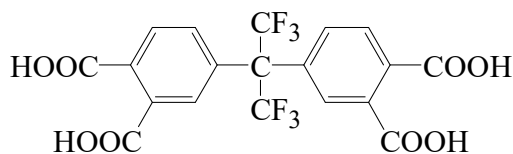




>>Entry Name: **2,2-Bis(3,4-dicarboxyphenyl)-1,1,1,3,3,3-hexafluoropropane**, 9CI

Synonym(s): 4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bis(1,2-benzenedicarboxylic acid), 9CI. 4,4'-[Trifluoro-1-(trifluoromethyl)ethylidene]diphthalic acid, 8CI. 4,4'-(Hexafluoroisopropylidene)diphthalic acid



CAS Registry Number: 3016-76-0

Related CAS Registry Numbers(s): 59301-66-5 69068-52-6 71550-47-5

Molecular Formula: C₁₉H₁₀F₆O₈

Molecular Weight: 480.274

Accurate Mass: 480.027988

Percentage Composition: C 47.52%; H 2.10%; F 23.73%; O 26.65%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 231-234° (225°)

Other Data: Resolidifies and remelts as anhydride

>>Derivative: 1,1'-Di-Me ester

CAS Registry Number: 189894-20-0

Molecular Formula: C₂₁H₁₄F₆O₈

Molecular Weight: 508.327

Accurate Mass: 508.059288

Percentage Composition: C 49.62%; H 2.78%; F 22.42%; O 25.18%

Physical Description: No phys. props. accessible

>>Derivative: 2,2'-Di-Me ester

CAS Registry Number: 65292-38-8

Molecular Formula: C₂₁H₁₄F₆O₈

Molecular Weight: 508.327

Accurate Mass: 508.059288

Percentage Composition: C 49.62%; H 2.78%; F 22.42%; O 25.18%

Physical Description: No phys. props. accessible

>>Derivative: Bis(anhydride)

Synonym(s): 5,5'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bis-1,3-isobenzofurandione, 9CI

CAS Registry Number: 1107-00-2

Molecular Formula: C₁₉H₆F₆O₆

Molecular Weight: 444.243

Accurate Mass: 444.006858

Percentage Composition: C 51.37%; H 1.36%; F 25.66%; O 21.61%

Physical Description: Cryst. (AcOH/Ac₂O or by subl.)

Melting Point: Mp 252-253° (244-247°)

Aldrich: 38644-8

References:

U.S. Pat., 1963, 3 310 573; *CA*, **68**, 14078x, (*synth, anhydride*)

Netherlands Pat., 1964, 6 406 896; *CA*, **62**, 14585b, (*synth, anhydride*)

U.S. Pat., 1967, 3 356 648; *CA*, **68**, 30419q, (*synth, anhydride*)

Linde, H.G. *et al.*, *Anal. Chem.*, 1983, **55**, 1443, (*props*)

Huang, W. *et al.*, *Polymer*, 1997, **38**, 2033-2039, (*1,1'-di Me ester, 2,2'-di-Me ester, pmr*)