



Library
Indian Institute of Science Education and Research
Mohali



DSpace@IISERMohali (/jspui/)

/ Thesis & Dissertation (/jspui/handle/123456789/1)

/ Master of Science (/jspui/handle/123456789/2)

/ MS-09 (/jspui/handle/123456789/393)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/643>

Title: Study of C–H···F and Other Weak Interactions in a Series of Fluorine Substituted N-Phenethyl-Nphenyl Benzamide

Authors: Dudi, Shivcharan (/jspui/browse?type=author&value=Dudi%2C+Shivcharan)

Keywords: Chemistry
Hydrogen Bonds
Fluorine

Issue Date: 25-Jun-2015

Publisher: IISER-M

Abstract: A series of fluorine substituted N-Phenethyl-N-phenyl benzamide compounds have been synthesized that involved three steps. These compounds have been characterized to study the importance of C–H···F and other weak interactions in crystal engineering in the absence of strong hydrogen bond. The effect of fluorine substitution on the molecular solid-state organization and conformation in the crystalline lattice has been discussed in terms of changes in supramolecular aggregation. It was observed that these compounds utilizes C–H···F and C–H···O hydrogen bonds in cooperation with C–H··· π and π ··· π interactions in molecular packing. Further, various synthetic techniques have been employed to synthesize fluorinated isoquinoline compounds to study the importance of fluorine mediated interactions in these compounds. Unfortunately, these compounds were not synthesized.

URI: <http://hdl.handle.net/123456789/643> (<http://hdl.handle.net/123456789/643>)

Appears in MS-09 (/jspui/handle/123456789/393)
Collections:

Files in This Item:


File	Description	Size	Format
------	-------------	------	--------

MS-09119.pdf
(/jspui/bitstream/123456789/643/3/MS-09119.pdf)

2.07 Adobe
MB PDF

[View/Open \(/jspui/bitstream/123456789/643/3/MS-09119.pdf\)](/jspui/bitstream/123456789/643/3/MS-09119.pdf)

[Show full item record \(/jspui/handle/123456789/643?mode=full\)](/jspui/handle/123456789/643?mode=full)

 [\(/jspui/handle/123456789/643/statistics\)](/jspui/handle/123456789/643/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.