


 Cite this: *RSC Adv.*, 2024, 14, 22418

Correction: Analyzing the impact of the size of fluoro and chloro substituents on induced mesomorphism in hydrogen bonded liquid crystals

 M. K. Sonali,^a Rajeev K. Sinha,^b Silpa Elizabeth Peter,^a N. V. Anil Kumar,^a Nirmal Mazumder,^c Sindhoora Kaniyala Melanthota,^c Mohammed Azeezulla Nazrulla^a and Poornima Bhagavath^{*a}

DOI: 10.1039/d4ra90077d

rsc.li/rsc-advances

 Correction for 'Analyzing the impact of the size of fluoro and chloro substituents on induced mesomorphism in hydrogen bonded liquid crystals' by M. K. Sonali *et al.*, *RSC Adv.*, 2024, 14, 20398–20409, <https://doi.org/10.1039/D3RA08569D>

The authors regret that the names of the hydrogen bonded compounds in Tables 1–3 were not correctly given in the original article. The corrected versions of Tables 1–3 are shown herein.

Table 1 DSC phase transition temperature (°C) and the corresponding enthalpy (J g⁻¹) of P18 with fluorobenzoic acids^a

Hydrogen bonded compound	Method	Transition	Transition temperatures (°C) (enthalpy J g ⁻¹)	(ΔT) _{LC}
P18:2FBA	DSC (h)	Cryst → SmA	72.0 (4.57)	13.24
	DSC (c)	SmA → Iso	89.45 (83.45)	
P18:3FBA	DSC (h)	Iso → SmA	74.26 (1.50)	12.79
		SmA → Cryst	61.02 (68.67)	
	DSC (c)	Cryst → SmA	74.06 (5.06)	
		SmA → Iso	101.41 (58.58)	
P18:4FBA	DSC (h)	Iso → SmA	78.78 (1.72)	28.02
		SmA → Cryst ¹	65.99 (34.15)	
		Cryst ¹ → Cryst ²	61.92 (6.04)	
	DSC (c)	Cryst ¹ → Cryst ²	73.53 (20.22)	
		Cryst ² → SmA	89.58 (73.03)	
		Iso → SmA	107.36 (5.93)	
DSC (c)	Iso → SmA	103.33 (1.86)		
	SmA → Cryst ¹	75.31(26.88)		
	Cryst ¹ → Cryst ²	67.03 (64.09)		

^a DSC (h) is heating cycle, DSC (c) is cooling cycle. (ΔT)_{LC} is the thermal range of mesomorphism obtained from the cooling cycle.

^aDepartment of Chemistry, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576 104, Karnataka, India. E-mail: poornima.nayak@manipal.edu

^bDepartment of Physics, Birla Institute of Technology Mesra, Ranchi, 835215, Jharkhand, India

^cDepartment of Biophysics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, 576104, India


Correction

Table 2 DSC phase transition temperature ($^{\circ}\text{C}$) and the corresponding enthalpy (J g^{-1}) of P18 with chlorobenzoic acids

Hydrogen bonded compound	Method	Transition	Transition temperatures ($^{\circ}\text{C}$) (enthalpy J g^{-1})	$(\Delta T)_{\text{LC}}$
P18:2ClBA	DSC (h)	Cryst \rightarrow SmA	51.27 (13.88)	9.02
		SmA \rightarrow Iso	71.68 (84.68)	
	DSC (c)	Iso \rightarrow SmA	58.38 (21.57)	
P18:3ClBA	DSC (h)	SmA \rightarrow Cryst	49.36 (29.04)	9.13
		Cryst \rightarrow SmA	72.75 (18.40)	
	DSC (c)	Iso \rightarrow SmA	68.69 (53.48)	
P18:4ClBA	DSC (h)	SmA \rightarrow Cryst	59.56 (23.20)	20.06
		Cryst \rightarrow SmA	75.46 (36.78)	
	DSC (c)	Iso \rightarrow SmA	82.16 (29.29)	
		SmA \rightarrow Cryst	62.10 (52.71)	

Table 3 DSC phase transition temperature ($^{\circ}\text{C}$) and the corresponding enthalpy (J g^{-1}) of P8 with fluoro and chlorobenzoic acids

Hydrogen bonded compound	Method	Transition	Transition temperatures ($^{\circ}\text{C}$) (enthalpy J g^{-1})	$(\Delta T)_{\text{LC}}$
P8:2FBA	DSC (h)	Cryst \rightarrow Iso	66.42 (50.09)	25.64
		Iso \rightarrow SmA	53.69 (1.61)	
	DSC (c)	SmA \rightarrow Cryst	28.05 (26.61)	
P8:3FBA	DSC (h)	Cryst \rightarrow Iso	91.52 (59.96)	25.14
		Iso \rightarrow SmA	69.08 (3.34)	
	DSC (c)	SmA \rightarrow Cryst	43.94 (51.45)	
P8:4FBA	DSC (h)	Cryst \rightarrow SmA	61.44 (40.49)	56.57
		SmA \rightarrow Iso	^a	
	DSC (c)	Iso \rightarrow SmA	99.71 (6.09)	
P8:3ClBA	DSC (h)	SmA \rightarrow Cryst	43.14(41.65)	12.84
		Cryst \rightarrow Iso	72.00(51.88)	
	DSC (c)	Iso \rightarrow SmA	66.03 (5.86)	
P8:4ClBA	DSC (h)	SmA \rightarrow Cryst	53.19(48.92)	52.42
		Cryst \rightarrow SmA	91.73 (35.04)	
	DSC (c)	Iso \rightarrow SmA	117.26 (6.34)	
		SmA \rightarrow Cryst	109.57 (2.55)	
		SmA \rightarrow Cryst	57.15(20.28)	

^a Not resolved.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

