Supplementary Information Table 2 Crystallographic data for sulfones **5** to **7, 9** to **12, 15** and **16**.

Compound	**5**	**6**	**7**	**9**	**10**	**11**	**12**	**15**	**R-16**
Formula	$C_{13}H_{10}F_2O_2S$	$C_{15}H_{16}O_4S$	$C_{13}H_{10}FNO_4S$	$C_{16}H_{18}O_4S$	$C_{14}H_{12}F_2O_2S$	$C_{14}H_{13}NO_5S$	$C_{14}H_{13}NO_5S$	$C_{14}H_{14}O_2S$	$C_{16}H_{18}O_4S$
Formula Weight	268.27	292.34	295.28	306.36	282.30	307.31	307.31	246.31	306.36
T/K	100(2)	150(2)	120(2)	291(2)	100(2)	120(2)	123(2)	100(2)	180(2)
Crystal System	Orthorhombic	Monoclinic	Monoclinic	Monoclinic	Monoclinic	Orthorhombic	Monoclinic	Monoclinic	Monoclinic
Space Group	*Pca2₁*	*Pc*	*Pc*	*Cc*	*Cc*	$P2_12_12_1$	$P2_1/c$	*Pn*	$P2_1$
a/Å	8.7490(9)	15.345(14)	13.0726(6)	17.924(4)	16.3313(11)	5.13970(10)	13.691(3)	7.4697(8)	7.0952(3)
b/Å	5.3330(5)	5.395(2)	5.2890(2)	9.756(3)	19.8342(14)	10.62070(10)	12.8075(13)	5.6810(7)	12.2671(5)
c/Å	24.881(3)	8.604(7)	8.9303(3)	8.6720(17)	8.2586(5)	24.9841(5)	7.9667(10)	14.0467(16)	8.6368(4)
α/°	90	90	90	90	90	90	90	90	90
β/°	90	105.57(3)	90.231(3)	92.355(8)	109.308(2)	90	93.450(13)	91.800(2)	94.274(2)
γ/°	90	90	90	90	90	90	90	90	90
V/Å^3	1160.9(2)	686.2(9)	617.44(4)	1515.2(6)	2524.6(3)	1363.81(4)	1394.4(4)	595.78(12)	749.64(6)
Z	4	2	2	4	8	4	4	2	2
ρ_{calc}/gcm^{-3}	1.535	1.415	1.588	1.343	1.485	1.497	1.464	1.373	1.357
μ/mm^{-1}	0.295	0.246	0.288	0.226	0.275	0.259	0.253	0.257	0.229
2θ max/°	54.44	50.90	54.90	50.18	55.96	54.88	60.22	56.60	54.92
Total reflections	3939	2756	8984	7227	21292	17154	13717	6696	6258
Unique reflections	2355	2556	2674	2647	6027	3108	4067	2936	3212
Refls I>2σ(I)	2144	1966	2607	1898	5865	2978	3598	2702	3052
R_{int}	0.0231	0.0359	0.0246	0.0547	0.0276	0.0298	0.0131	0.0368	0.0466
Parameters	163	183	181	193	345	191	203	155	193
R_1 [F, I>2σ(I)]	0.0296	0.0809	0.0263	0.0420	0.0249	0.0280	0.0294	0.0354	0.0319
wR_2 (F^2, all data)	0.0718	0.2263	0.0675	0.0800	0.0670	0.0840	0.0836	0.0810	0.0810
Flack	0.05(7)	0.3(2)	-0.01(5)	0.07(7)	0.02(3)	-0.02(6)	-	0.003(63)	-0.08(6)
Hooft [a]	0.10(4)	0.16(7)	-0.01(2)	0.09(6)	0.021(16)	-0.006(19)	-	0.03(5)	-0.07(3)

[a] as implemented in PLATON