Scattering length densities (ρ) for various polymers and solvents. The columns headed M and ρ_m are the molecular mass and bulk density, respectively. G3 PBE Dendrimer etc. are Third (Fourth, …) generation poly(benzyl ether) dendrimers.[1, 2] HBP H20 is a pseudo second generation hyperbranched polymer, the molecular mass and formula are approximate.[3] The radiation wavelength was assumed 1.54 Å, little dispersion in the scattering length densities is seen for most compounds.
Source: http://www.ncnr.nist.gov/resources/sldcalc.html.

				Cu Kα X-rays	SANS
Compound	Formula	M / Da	ρ_m / g-cc^{-1}	ρ /10^{-6}Å^{-2}	ρ /10^{-6}Å^{-2}
Polymers					
Ethylene Monomer	-C_2H_4-	28	0.92	8.73	-0.33
	-C_2D_4-	32	1.1	9.33	8.24
Styrene Monomer	-C_8H_8-	104	1.05	9.60	1.41
	-C_8D_8-	112	1.13	9.59	6.42
Poly(ethylene oxide) Monomer	-C_2H_4O-	44	1.13	10.5	0.639
	-C_2D_4O-	48	~1.22	10.5	7.00
Lactide Monomer	-$C_3H_4O_2$-	72	1.25	11.2	1.73
	-$C_3D_4O_2$-	76	~1.3	11.1	5.99
Glycolide Monomer	-$C_2H_2O_2$-	58	~1.3	11.5	2.35
Caprolactone Monomer	-$C_6H_{10}O_2$-	114	1.15	10.6	0.86
G3 PBE Dendrimer	$C_{105}H_{92}O_{15}$	1,592	1.19	10.7	1.98
G4 PBE Dendrimer	$C_{217}H_{188}O_{31}$	3,288	1.21	10.9	2.03
d-G4 PBE Dendrimer	$C_{217}D_{112}H_{76}O_{31}$	3,400	~1.21	11.2	5.84
G5 PBE Dendrimer	$C_{441}H_{380}O_{63}$	7,688	1.22	11.0	2.06
G6 PBE Dendrimer	$C_{889}H_{764}O_{127}$	13,464	1.19	10.7	2.01
HBP H20	$C_{74}H_{126}O_{45}$	1734	~1.2	11.0	1.17
PAMAM Dendrimer[4]					1.48
PAMAM Monomer	$C_5H_9N_2O$	113	~1.1	10.1	1.41
Solvents					
Water	H_2O	18	1.00	9.46	-0.56
	D_2O	20	1.11	9.42	6.37
THF	C_4H_8O	72	0.886	8.36	0.18
	C_4D_8O	80	0.985	8.34	6.35
Chloroform	$CHCl_3$	119	1.49	12.5	2.38
	$CDCl_3$	120	1.50	12.5	3.16
NMP	C_5H_8NO	98	1.03	9.47	1.17
Benzene	C_6H_6	78	0.874	7.99	1.18
	C_6D_6	84	0.950	8.07	5.43
Cyclohexane	C_6H_{12}	84	0.779	7.56	-0.278
	C_6D_{12}	96	0.893	7.57	6.70
m-Terphenyl	$C_{18}H_{14}$	230	1.05	9.46	1.85
Methanol	CH_3OH	32	0.791	7.57	-0.373
	CD_3OH	35	0.867	7.58	4.28

[1] C. J. Hawker and J. M. J. Fréchet, "Preparation of polymers with controlled molecular architecture. A new convergent approach to dendritic macromolecules," J. Am. Chem. Soc., **112** (1990) 7638-7647.
[2] M. E. Mackay, G. Hay and C. J. Hawker, "On the thermodynamic properties of dendrimers compared to linear polymers: General observations," J. Poly. Sci. Part B: Poly. Phys., **39** (2001) 1766-1777.
[3] E. Malmström, M. Johansson and A. Hult, "Hyperbranched aliphatic polyesters," Macromolecules, **28** (1995) 1689-1703.
[4] Determined from contrast matching of G7 PAMAM in d/h Methanol, A. Topp, B. Bauer, D. Tomalia and E. Amis, "Effect of Solvent Quality on the Molecular Dimensions of PAMAM Dendrimers," Macromolecules, **32** (1999) 7232-7237.