

Phase transition temperature for Glycerophospholipids

Product	T _m (°C)	T _h (°C)
Phosphatidylcholine		
12:0 PC (DLPC)	-2	
13:0 PC	14	
14:0 PC (DMPC)	24	
15:0 PC	35	
16:0 PC (DPPC)	41	
17:0 PC	50	
18:0 PC (DSPC)	55	
19:0 PC	62	
20:0 PC	66	
21:0 PC	71	
22:0 PC	75	
23:0 PC	79.5	
24:0 PC	80.3	
16:1 PC	-36	
18:1c9 PC (DOPC)	-17	
18:1t9 PC	12	
18:1c6 PC	1	
22:1c13 PC	13	
18:2 PC	-57	
18:3 PC	-60	
20:4 PC	-69	
14:0-16:0 PC	35	
14:0-18:0 PC	40	
16:0-14:0 PC	27	
16:0-18:0 PC	49	
16:0-18:1 PC (POPC)	-2	
16:0-22:6 PC	-27	
18:0-14:0 PC	30	
18:0-16:0 PC	44	
18:0-18:1 PC	6	
18:1-16:0 PC	-9	
18:1-18:0 PC	9	

Product	T _m (°C)	T _h (°C)
Phosphatidylglycerol (Sodium Salt)		
12:0 PG (DLPG)	-3	
14:0 PG (DMPG)	23	
16:0 PG (DPPG)	41	
18:0 PG (DSPG)	55	
18:1 PG (DOPG)	-18	
16:0-18:1 PG (POPG)	-2	
Phosphatidylserine (Sodium Salt)		
14:0 PS (DMPS)	35	
16:0 PS (DPPS)	54	
18:0 PS (DSPS)	68	
18:1 PS (DOPS)	-11	
16:0-18:1 PS (POPS)	14	
Phosphatidic Acid (Sodium Salt)		
12:0 PA (DLPA)	31	
14:0 PA (DMPA)	52	
16:0 PA (DPPA)	65	
18:0 PA (DSPA)	75	
18:1 PA	-4	
16:0-18:1 PA (POPA)	28	
Cardiolipin		
14:0 CL	47	
16:0 CL	62.2	
Phosphatidylethanolamine		
12:0 PE (DLPE)	29	
14:0 PE (DMPE)	50	
16:0 PE (DPPE)	63	118
18:0 PE (DSPE)	74	100
20:0 PE	83	96
18:1c9 PE (DOPE)	-16	10
18:1t9 PE	38	64
18:2 PE	-40	-15
18:3 PE		-30
16:0-18:1 PE (POPE)	25	71

References

Thermotropic Phase Transitions of Pure Lipids in Model Membranes and Their Modifications by Membrane Proteins, Dr. John R. Silvius, Lipid-Protein Interactions, John Wiley & Sons, Inc., New York, 1982. Reprinted with permission from John Wiley & Sons, Inc.

Lipid Thermotropic Phase Transition Database (LIPIDAT) – NIST Standard Reference Database 34

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