

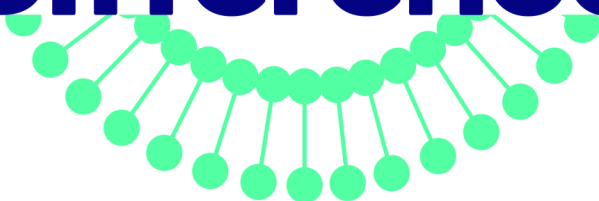
Phase Transition Temperature for Glycerophospholipids

Phosphatidylcholine		Phosphatidylglycerol (Sodium Salt)	
Product	T _m (°C)	Product	T _m (°C)
<u>12:0 PC (DLPC)</u>	-2	<u>12:0 PG (DLPG)</u>	-3
<u>13:0 PC</u>	14	<u>14:0 PG (DMPG)</u>	23
<u>14:0 PC (DMPC)</u>	24	<u>16:0 PG (DPPG)</u>	41
<u>15:0 PC</u>	35	<u>18:0 PG (DSPG)</u>	55
<u>16:0 PC (DPPC)</u>	41	<u>18:1 PG (DOPG)</u>	-18
<u>17:0 PC</u>	50	<u>16:0-18:1 PG (POPG)</u>	-2
<u>18:0 PC (DSPC)</u>	55	Phosphatidylserine (Sodium Salt)	
<u>19:0 PC</u>	62	<u>14:0 PS (DMPS)</u>	35
<u>20:0 PC</u>	66	<u>16:0 PS (DPPS)</u>	54
<u>21:0 PC</u>	71	<u>18:0 PS (DSPS)</u>	68
<u>22:0 PC</u>	75	<u>18:1 PS (DOPS)</u>	-11
<u>23:0 PC</u>	79.5	<u>16:0-18:1 PS (POPS)</u>	14
<u>24:0 PC</u>	80.3	Phosphatidic Acid (Sodium Salt)	
<u>16:1 PC</u>	-36	<u>12:0 PA (DLPA)</u>	31
<u>18:1c9 PC (DOPC)</u>	-17	<u>14:0 PA (DMPA)</u>	52
<u>18:1t9 PC</u>	12	<u>16:0 PA (DPPA)</u>	65
<u>18:1c6 PC</u>	1	<u>18:0 PA (DSPA)</u>	75
<u>22:1c13 PC</u>	13	<u>18:1 PA (DOPA)</u>	-4
<u>18:2 PC</u>	-57	<u>16:0-18:1 PA (POPA)</u>	28

Phase Transition Temperature for Glycerophospholipids

<u>18:3 PC</u>	-60	Cardiolipin		
<u>20:4 PC</u>	-69	<u>14:0 CL</u>	47	
<u>14:0-16:0 PC</u>	35	<u>16:0 CL</u>	62.2	
<u>14:0-18:0 PC</u>	40	Phosphatidylethanolamine		
<u>16:0-14:0 PC</u>	27	Product	Tm (°C)	Th (°C)
<u>16:0-18:0 PC</u>	49	<u>12:0 PE (DLPE)</u>	29	
<u>16:0-18:1 PC (POPC)</u>	-2	<u>14:0 PE (DMPE)</u>	50	
<u>16:0-22:6 PC</u>	-27	<u>16:0 PE (DPPE)</u>	63	118
<u>18:0-14:0 PC</u>	30	<u>18:0 PE (DSPE)</u>	74	100
<u>18:0-16:0 PC</u>	44	20:0 PE	83	96
<u>18:0-18:1 PC</u>	6	<u>18:1c9 PE (DOPE)</u>	-16	10
<u>18:1-16:0 PC</u>	-9	<u>18:1t9 PE</u>	38	64
<u>18:1-18:0 PC</u>	9	<u>18:2 PE</u>	-40	-15
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.		<u>18:3 PE</u>		-30
Lipid Thermotropic Phase Transition Database (LIPIDAT) – NIST Standard Reference Database 34		<u>16:0-18:1 PE (POPE)</u>	25	71

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