

Hydrophobe Compatibility Matrix (HCM)

	Arg, R	Lys, K	Asp, D	Gln, Q	Asn, N	Glu, E	His, H	Ser, S	Thr, T	Pro, P	Tyr, Y	Cys, C	Gly, G	Ala, A	Met, M	Trp, W	Leu, L	Val, V	Phe, F	Ile, I
HM	-7.5	-4.6	-3.0	-2.9	-2.7	-2.6	-1.7	-1.1	-0.8	-0.3	0.1	0.2	0.7	1.0	1.1	1.5	2.2	2.3	2.5	3.1

	Arg, R	Lys, K	Asp, D	Gln, Q	Asn, N	Glu, E	His, H	Ser, S	Thr, T	Pro, P	Tyr, Y	Cys, C	Gly, G	Ala, A	Met, M	Trp, W	Leu, L	Val, V	Phe, F	Ile, I
Arg, R	20.0	14.8	11.9	11.8	11.4	11.2	9.6	8.5	7.9	7.1	6.4	6.3	5.4	4.8	4.6	3.9	2.6	2.4	2.1	1.0
Lys, K	14.8	20.0	17.1	17.0	16.6	16.4	14.8	13.7	13.1	12.3	11.6	11.5	10.6	10.0	9.8	9.1	7.8	7.6	7.3	6.2
Asp, D	11.9	17.1	20.0	19.8	19.5	19.3	17.7	16.6	16.0	15.1	14.5	14.3	13.4	12.8	12.7	11.9	10.7	10.5	10.1	9.1
Gln, Q	11.8	17.0	19.8	20.0	19.6	19.5	17.8	16.8	16.1	15.3	14.7	14.5	13.6	13.0	12.8	12.1	10.9	10.7	10.3	9.2
Asn, N	11.4	16.6	19.5	19.6	20.0	19.8	18.2	17.1	16.5	15.7	15.0	14.9	14.0	13.4	13.2	12.5	11.2	11.0	10.7	9.6
Glu, E	11.2	16.4	19.3	19.5	19.8	20.0	18.4	17.3	16.7	15.9	15.2	15.0	14.1	13.5	13.4	12.7	11.4	11.2	10.9	9.8
His, H	9.6	14.8	17.7	17.8	18.2	18.4	20.0	18.9	18.3	17.5	16.8	16.6	15.8	15.2	15.0	14.3	13.0	12.8	12.5	11.4
Ser, S	8.5	13.7	16.6	16.8	17.1	17.3	18.9	20.0	19.4	18.5	17.9	17.7	16.8	16.2	16.1	15.3	14.1	13.9	13.5	12.5
Thr, T	7.9	13.1	16.0	16.1	16.5	16.7	18.3	19.4	20.0	19.2	18.5	18.4	17.5	16.9	16.7	16.0	14.7	14.5	14.2	13.1
Pro, P	7.1	12.3	15.1	15.3	15.7	15.9	17.5	18.5	19.2	20.0	19.3	19.2	18.3	17.7	17.5	16.8	15.5	15.4	15.0	13.9
Tyr, Y	6.4	11.6	14.5	14.7	15.0	15.2	16.8	17.9	18.5	19.3	20.0	19.8	18.9	18.4	18.2	17.5	16.2	16.0	15.7	14.6
Cys, C	6.3	11.5	14.3	14.5	14.9	15.0	16.6	17.7	18.4	19.2	19.8	20.0	19.1	18.5	18.3	17.6	16.4	16.2	15.8	14.7
Gly, G	5.4	10.6	13.4	13.6	14.0	14.1	15.8	16.8	17.5	18.3	18.9	19.1	20.0	19.4	19.2	18.5	17.3	17.1	16.7	15.6
Ala, A	4.8	10.0	12.8	13.0	13.4	13.5	15.2	16.2	16.9	17.7	18.4	18.5	19.4	20.0	19.8	19.1	17.8	17.7	17.3	16.2
Met, M	4.6	9.8	12.7	12.8	13.2	13.4	15.0	16.1	16.7	17.5	18.2	18.3	19.2	19.8	20.0	19.3	18.0	17.8	17.5	16.4
Trp, W	3.9	9.1	11.9	12.1	12.5	12.7	14.3	15.3	16.0	16.8	17.5	17.6	18.5	19.1	19.3	20.0	18.7	18.6	18.2	17.1
Leu, L	2.6	7.8	10.7	10.9	11.2	11.4	13.0	14.1	14.7	15.5	16.2	16.4	17.3	17.8	18.0	18.7	20.0	19.8	19.5	18.4
Val, V	2.4	7.6	10.5	10.7	11.0	11.2	12.8	13.9	14.5	15.4	16.0	16.2	17.1	17.7	17.8	18.6	19.8	20.0	19.6	18.6
Phe, F	2.1	7.3	10.1	10.3	10.7	10.9	12.5	13.5	14.2	15.0	15.7	15.8	16.7	17.3	17.5	18.2	19.5	19.6	20.0	18.9
Ile, I	1.0	6.2	9.1	9.2	9.6	9.8	11.4	12.5	13.1	13.9	14.6	14.7	15.6	16.2	16.4	17.1	18.4	18.6	18.9	20.0

HM: Hydrophobe Momeent

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