	graph regularized MF
	data: (compand i, compound j, miscibility outcome)
	acompany Ce (0,1)
1000	M: missibility matrix CXC, symmetric MT=M.
	element (i,j) of DM, mij is miscibility outcome.
	suppose only a fraction of entries are observed;
	Note C {1,, c} x {1,, c}
	also, each compound i has class label given by $\phi(i)$,
	protein, surfaciont de,
	model: 2 Place dimensional latent representation for compand L
	we wish to learn there
	= = o(1 = 1)
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
PO	d(Zį-Žį) Zį • Žį = Žį Ž; (ω Θ
	ro if vectors point in
	Altable, otherwise
27 14	printe many the
	note: model as of now doesn't account for class labels,
	141
	(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)
	V ≤ 11 → 11 ² = (100 × 10)
	$+ \underbrace{\times \underbrace{\times}_{(i,j)} \vec{c}_{i} - \vec{c}_{j} ^{2} \mathbb{I}(\phi(i), \phi(j))}$
	Second term is graph regularization, indicator function;
	excurages compareds from time do there two belong to.
	class to congregate,
	I hyperparan controls percelly be closed to drift own from such other.
	O hyperparan contents peralty for closes to anti-away from each other.