

Comparative Solubility Studies

Solubility Studies of Cesium- and Potassium-Salts in Various Solvents

	CsF		KF		Cs₂CO₃		K₂CO₃	
	[g/l]	[mmol/l]	[g/l]	[mmol/l]	[g/l]	[mmol/l]	[g/l]	[mmol/l]
DMF	0.7	5.27	0.083	1.429	2.353	7.2	0.305	2.209
DMSO	0.39	2.93	0.0225	0.387	0.319	0.98	0.037	0.2678
THF	0.0005	0.00376	< 0.0004	< 0.0069	0.0074	0.023	0.0025	0.0181
CH₃CN	0.1	0.752	0.003	0.052	0.0711	0.22	0.001	0.0072
N-MP	< 0.0011	< 0.019	0.001	0.0172	< 0.0025	< 0.0077	0.002	0.0145
DME	0.0091	0.0685	< 0.001	< 0.0172	0.0074	0.023	0.003	0.0217

Abbreviations:

DMF N,N-Dimethylformamide
DMSO Dimethylsulfoxide
THF Tetrahydrofuran

CH₃CN Acetonitrile
N-MP N-Methyl-2-pyrrolidinone
DME 1,2-Dimethoxyethane

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Normalized Solubilities of Cesium- and Potassium-Salts in Various Solvents

Solubility in DMF:	Cs₂CO₃	CsF	K₂CO₃	KF
	5.1	: 3.7	: 1.6	: 1
Solubility in DMSO:	CsF	Cs₂CO₃	KF	K₂CO₃
	10.9	: 3.7	: 1.4	: 1
Solubility in THF:	Cs₂CO₃	K₂CO₃	KF	CsF
	6.1	: 4.8	: 1.8	: 1
Solubility in CH ₃ CN:	CsF	Cs₂CO₃	KF	K₂CO₃
	104.4	: 30.6	: 7.2	: 1
Solubility in DME:	CsF	KF	K₂CO₃	Cs₂CO₃
	2.5	: 2.2	: 1.9	: 1
Solubility in N-MP:	CsF	Cs₂CO₃	K₂CO₃	KF
	4.0	: 1.3	: 1.3	: 1

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