

Cesium Formate

Chemical properties

Chemical formula	HCOOCs
Chemical structure	
Molecular weight (g/mol)	177.92

Physical properties 2.20 s.g. brine

Appearance	Clear liquid
Colour	Colourless
Viscosity (CP)	
at 26.7°C	6.7
at 37.8°C	4.6
at 71.0°C	3.0
pH (buffered)	10.0 – 11.0
Dissociation constant (pKa)	3.75
Vapour pressure (Pa) (for 2.28 s.g. CsFo brine)	
at 20°C	483
at 30°C	1,042
at 40°C	1,911
Boiling point (°C)	131
Coefficient of thermal conductivity (W/m/K)	
at 10°C	0.338
at 70°C	0.368
Heat capacity (J/g/K) at 10 – 70°C	1.38
Coefficient of friction at 93°C	
metal-to-metal	0.166
metal-to-sandstone	0.151
Turbidity (NTUs)	< 5
Typical ion content (ppm)	
Monovalent ions (Rb, K, Na, Li)	25,000
Divalent ions (Ba, Ca, Mg, Sr)	< 100
Chlorides (Cl)	< 1,000
Sulphates (SO ₄)	< 150