

Cesium Formate

Chemical properties

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

Physical properties 18.34 ppg brine

Appearance	Clear liquid
Colour	Colourless
Viscosity (CP)	
at 80°F	6.7
at 100°F	4.6
at 160°F	3.0
pH (buffered)	10.0 – 11.0
Dissociation constant (pKa)	3.75
Vapour pressure (psi) (for 19.0 ppg CsFo brine)	
at 60°F	0.07
at 80°F	0.15
at 100°F	0.29
Boiling point (°F)	267
Coefficient of thermal conductivity (BTU/h/ft/°F)	
at 50°F	0.586
at 150°F	0.637
Heat capacity (BTU/lb/°F) at 50 – 160°F	0.331
Coefficient of friction at 200°F	
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