

3. Consider the acids listed in the following table.

Name	Formula	K_a (25 °C)
bromoacetic acid	CH_2BrCOOH	1.38×10^{-3}
dibromoacetic acid	CHBr_2COOH	3.31×10^{-2}
tribromoacetic acid	CBr_3COOH	1.91×10^{-1}

Which of the following identifies the strongest acid and classifies it correctly as monoprotic, diprotic or triprotic?

	Strongest acid	Classification
(a)	bromoacetic acid	monoprotic
(b)	dibromoacetic acid	diprotic
(c)	tribromoacetic acid	monoprotic
(d)	tribromoacetic acid	triprotic