



## Enamel Dissolution in Various Beverages

Beverage	Container	pH	14-day weight loss (%)	14-day weight loss (mg/cm <sup>2</sup> )
Coca-Cola	Bottle	2.48	1.39 ± 0.34	2.78 ± 0.71
Diet Coca-Cola	Bottle	3.22	1.49 ± 0.29	3.07 ± 0.06
Pepsi-Cola	Can	2.60	1.40 ± 0.22	3.31 ± 0.43
Diet Pepsi-Cola	Can	2.94	1.46 ± 0.23	3.22 ± 0.24
Dr. Pepper	Bottle	2.90	1.72 ± 0.36	3.21 ± 0.24
Diet Dr. Pepper	Bottle	2.99	1.52 ± 1.00	2.99 ± 1.24
Mountain Dew	Bottle	3.14	6.17 ± 1.13	14.31 ± 0.94
Diet Mountain Dew	Bottle	3.27	8.01 ± 1.46	14.82 ± 2.23
Sprite	Can	3.27	3.93 ± 1.30	8.60 ± 1.94
Diet Sprite	Can	3.34	3.65 ± 1.27	6.43 ± 0.37
Canada Dry ginger ale	Can	2.94	3.48 ± 0.71	6.31 ± 0.65
A&W root beer	Can	4.80	-0.01 ± 0.12	-0.03 ± 0.28
Arizona iced tea	Can	2.94	4.86 ± 0.59	9.03 ± 1.21
Brewed black tea	N/A	5.36	0.22 ± 0.07	0.35 ± 0.12
Brewed black coffee	N/A	6.25	0.19 ± 0.03	0.34 ± 0.03
Tap water (control)	N/A	6.70	-0.02 ± 0.08	-0.05 ± 0.13

## Means and Standard Deviations of the Physiochemical Properties of Sports and Energy Drinks

	Mean ± Standard Deviation		
	Fluoride (ppm)	pH (0-14)	Titrateable Acidity (mL of 1.0 M NaOH)
<b>Sports Drinks</b>			
Propel Grape	0.20 ± 0.01	2.98 ± 0.09	3.11 ± 0.02
Powerade Option	0.06 ± 0.00	2.78 ± 0.07	3.03 ± 0.03
Gatorade Rain	0.36 ± 0.03	3.08 ± 0.02	3.32 ± 0.01
Powerade White	0.12 ± 0.02	2.76 ± 0.02	3.63 ± 0.15
Powerade Blue	0.12 ± 0.01	2.86 ± 0.03	3.60 ± 0.10
Powerade Red	0.08 ± 0.01	2.77 ± 0.01	3.50 ± 0.10
Powerade Advance	0.11 ± 0.02	2.77 ± 0.02	3.83 ± 0.05
Propel Mango	0.78 ± 0.07	3.23 ± 0.03	2.93 ± 0.06
Fuze	0.57 ± 0.08	3.09 ± 0.02	3.37 ± 0.21
Thirst Quencher	0.05 ± 0.01	2.85 ± 0.02	3.77 ± 0.06
Speedo	0.79 ± 0.09	3.06 ± 0.37	3.27 ± 0.06
Gatorade Blue	0.05 ± 0.01	2.92 ± 0.03	4.83 ± 0.06
Hydr8	0.35 ± 0.05	2.69 ± 0.01	4.40 ± 0.10
<b>Energy Drinks</b>			
Red Bull	0.42 ± 0.02	3.37 ± 0.06	10.79 ± 0.66
5-Hour Energy	0.14 ± 0.00	2.81 ± 0.01	13.73 ± 0.36
MDX	0.03 ± 0.00	2.70 ± 0.06	5.93 ± 0.38
Full Throttle Fury	0.16 ± 0.10	2.94 ± 0.01	9.83 ± 0.32
Rip It	0.39 ± 0.13	3.25 ± 0.01	10.13 ± 0.61
Red Bull Sugar Free	0.28 ± 0.09	3.27 ± 0.01	13.43 ± 0.86
Monster Assault	0.02 ± 0.01	3.49 ± 0.01	13.63 ± 1.38
Von Dutch	0.03 ± 0.01	3.10 ± 0.01	14.03 ± 0.50
Rockstar	0.005 ± 0.00	2.53 ± 0.01	14.53 ± 0.45