

# SPI Polyols, Inc.

## POLYOLS COMPARISON CHART

Raw Material	% Relative Sweetness vs. Sucrose	Calorie Content (Kcal/g)			Laxation Threshold (g/day)	Solubility at 25°C (g/100g H <sub>2</sub> O)	Heat of Solution (cal/g)	Melting Point (°C)	Degree of Hygroscopicity % ERH @ 20°C	Molecular Weight	GRAS USA	Canada
		USA	Canada	Japan								
Sorbitol	60	2.6	2.6	3	50	235g	-26.5	99-101	Medium	182	Yes	Yes*
Mannitol	50	1.6	1.6	2	20	22g	-28.9	165-169	Very Low	182	Food Additive	Yes*
HSH	30-40	3**	3	2.3-3.4	70-140	soluble	n/a	n/a	Medium	HP+	Yes <sup>1</sup>	Yes*
Maltitol Solution	70-80	3**	3	2.3-3.4	70-80	soluble	n/a	n/a	Medium	HP+	Yes <sup>1</sup>	Yes*
Maltitol	90	2.1	3	2	100	175g	-5.5	144-147	Low	344	Yes <sup>1</sup>	Yes*
Xylitol	100	2.4	3	3	50	200g	-36.6	92-95	High	152.17	Food Additive	Yes*
Lactitol Monohydrate	30-40	2	2	2	20-50	140g	-13.9	95-101	Low	362.33	Yes <sup>1</sup>	Yes*
Anhydrous Isomalt	40	2	2	2	50	39g	-9.4	145-150	Very Low	344.32	Yes <sup>1</sup>	Yes
Erythritol	60-70	0.2	2.6	0	High	61g	-42.9	119-123	Very Low	122	Yes <sup>1</sup>	Pending
Glycerin	55-75	4.3	4.3	-	High	soluble	+16.0	17.8	Medium	99	Yes	Yes
Polydextrose	0	1	1	1	90	80g	+9.0	130	High	<22,000	Food Additive	Yes*
Sucrose	100	4	4	4	None	185g	-4.3	160-186	Low	342	Yes	Yes
Fructose	117	4	4	4	None	400g	-8.0	102-105	High	180	Yes	Yes
Maltose	30	4	4	4	None	70g	-8.0	120-125	Medium	342	Food	Food

\*Extended to Use in Unstandardized Food

\*\*Based on solids

<sup>1</sup> Self-Affirmed GRAS

Supplied courtesy of SPI Polyols, Inc., 321 Cherry Lane, New Castle, DE 19720, Phone: 1-800-789-9755

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