imChem Silica Characteristics

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TECHNICAL NOTES

imChem Silica Characteristics

Shaper Phases

Shaper Phases	Type of Endcapping	Particle Size (µm)	Pore Size (Å)	Pore Volume (ml/g)	Surface Area (m2/g)	Carbon Load (%)	pH Range	Temperature Limit (°C)	Purity (%)	Type of Bonding
C18 Global	TMS	1.8, 3, 5	100	0.8	310	17	2.0 – 8.0	60	99.999	Monomeric
C8 Global	TMS	1.8, 3, 5	100	0.8	310	10	2.0 – 8.0	60	99.999	Monomeric
C18 Extreme	High Density TMS	1.8, 3, 5	100	0.8	310	18	2.0 – 10.0	60	99.999	Polymeric
C8 Extreme	High Density TMS	1.8, 3, 5	100	0.8	310	10	2.0 – 10.0	60	99.999	Polymeric
C18 AQ	Polar	1.8, 3, 5	100	0.8	310	12	2.0 – 8.0	60	99.999	Hybrid
C8 AQ	Polar	1.8, 3, 5	100	0.8	310	9	2.0 – 8.0	60	99.999	Hybrid

Surf Phases

Surf Phases	Type of Endcapping	Particle Size (µm)	Pore Size (Å)	Pore Volume (ml/g)	Surface Area (m2/g)	Carbon Load (%)	pH Range	Temperature Limit (°C)	Purity (%)	Type of Bonding
C18	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	17	2.0 – 8.0	60	99.995	Monomeric
C8	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	10	2.0 – 8.0	60	99.995	Monomeric
C4	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	7	2.0 – 8.0	60	99.995	Monomeric
C30	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	18	2.0 – 8.0	60	99.995	Monomeric
CN	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	6.5	2.0 – 8.0	60	99.995	Monomeric
Phenyl	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	12	2.0 – 8.0	60	99.995	Monomeric
Phenyl-Hexyl	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	14	2.0 – 8.0	60	99.995	Monomeric
NH2	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	9	2.0 – 8.0	60	99.995	Monomeric
SCX	None	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	5 (0.57 mmol/g)	2.0 – 8.0	60	99.995	Monomeric
Silica	None	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	---	2.0 – 8.0	60	99.995	---
C18 Wax	Base- deactivated TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	17	2.0 – 10.0	60	99.995	Monomeric
C8 Wax	Base- deactivated TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	10	2.0 – 10.0	60	99.995	Monomeric
C18 Polar	None	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	17	2.0 – 5.0	60	99.995	Monomeric
C8 Polar	None	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	10	2.0 – 5.0	60	99.995	Monomeric

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C18 Extreme	High Density TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	18	2.0 – 10.0	60	99.995	Polymeric
C8 Extreme	High Density TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	10	2.0 – 10.0	60	99.995	Polymeric
C18 AQ	Polar	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	12	2.0 – 8.0	60	99.995	Hybrid
C8 AQ	Polar	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	9	2.0 – 8.0	60	99.995	Hybrid
C18 TriF	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	18	2.0 – 10.0	60	99.995	Polymeric
C8 TriF	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	10	2.0 – 10.0	60	99.995	Polymeric
C18 Polar TriF	None	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	18	2.0 – 10.0	60	99.995	Polymeric
C8 Polar TriF	None	1.7, 1.9, 3, 3.5, 4, 5, 10	100	0.8	310	10	2.0 – 10.0	60	99.995	Polymeric
BIO C18	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	300	0.8	100	17	2.0 – 8.0	60	99.995	Monomeric
BIO C8	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	300	0.8	100	10	2.0 – 8.0	60	99.995	Monomeric
BIO C4	TMS	1.7, 1.9, 3, 3.5, 4, 5, 10	300	0.8	100	7	2.0 – 8.0	60	99.995	Monomeric

Coral Phases

Coral Phases	Type of Endcapping	Particle Size (µm)	Pore Size (Å)	Pore Volume (ml/g)	Surface Area (m2/g)	Carbon Load (%)	pH Range	Temperature Limit (°C)	Purity (%)	Type of Bonding
C18 Global	TMS	3, 5, 10, 15, 30, 60, 140	100	0.8	310	17	2.0 – 8.0	60	99.99	Monomeric
C8 Global	TMS	3, 5, 10, 15, 30, 60, 140	100	0.8	310	10	2.0 – 8.0	60	99.99	Monomeric
Silica	----	3, 5, 10, 15, 30, 60, 140	100	0.8	310	---	2.0 – 8.0	60	99.99	---
C18 Extreme	High Density TMS	3, 5, 10, 15, 30, 60, 140	100	0.8	310	18	2.0 – 10.0	60	99.99	Polymeric
C8 Extreme	High Density TMS	3, 5, 10, 15, 30, 60, 140	100	0.8	310	10	2.0 – 10.0	60	99.99	Polymeric
C18 AQ	Polar	3, 5, 10, 15, 30, 60, 140	100	0.8	310	12	2.0 – 8.0	60	99.99	Hybrid
C8 AQ	Polar	3, 5, 10, 15, 30, 60, 140	100	0.8	310	9	2.0 – 8.0	60	99.99	Hybrid