

MARKETS AND PROFITABILITY

Market Analytics: Phenol - 2022

July 2022



This Report was prepared by NexantECA, the Energy and Chemicals Advisory company ("NexantECA"). Except where specifically stated in this Report, the information contained herein is prepared on the basis of information that is publicly available, and contains no confidential third party technical information to the best knowledge and belief of NexantECA. The information has not been independently verified or otherwise examined to determine its accuracy, completeness or financial feasibility. Neither NexantECA, Subscriber nor any person acting on behalf of either shall have any liabilities for any loss or damage arising from or connected to the use of any information contained in this Report. NexantECA does not represent or warrant that any assumed conditions will come to pass.

The Report is for Subscriber's internal use only and shall be kept strictly confidential. The Report should not be otherwise reproduced, distributed or used without first obtaining prior written consent by NexantECA. Each Subscriber agrees to use reasonable effort to protect the confidential nature of the Report.

Copyright © by NexantECA (BVI) Ltd. 2022. All rights reserved.



Contents

1	Executive Summary	1
1.1	Cumene	1
1.2	Phenol	4
1.3	Acetone	7
1.4	Bisphenol-A	10
1.5	Polycarbonate	13
2	The Propylene and Derivatives Industry.....	16
2.1	Current Performance of the Propylene Market	16
2.1.1	Consumption	16
2.1.2	Supply	19
2.1.3	Supply, Demand and Trade	22
2.2	Phenol Chain	23
2.2.1	Cumene	23
2.2.2	Phenol	23
2.2.3	Acetone	23
2.2.4	Bisphenol A	24
2.2.5	Polycarbonate	24
2.3	Sustainability	25
2.4	Market Coverage.....	26
3	Phenol/Acetone Value Chain and Industry Integration	27
3.1	Phenol/Acetone Value Chain	27
3.2	Industry Integration.....	29
4	Cumene	31
4.1	Global	31
4.1.1	Key Developments	31
4.1.2	Demand	31
4.1.3	Supply	34
4.1.4	Supply, Demand and Trade	36
4.2	North America	38
4.2.1	Key Developments	38
4.2.2	Demand	38
4.2.3	Supply	40
4.2.4	Supply, Demand and Trade	41
4.3	South America	43
4.3.1	Key Developments	43
4.3.2	Demand	43
4.3.3	Supply	44
4.3.4	Supply, Demand and Trade	44
4.4	Western Europe	45
4.4.1	Key Developments	45



4.4.2	Demand	45
4.4.3	Supply	46
4.4.4	Supply, Demand and Trade	48
4.5	Central Europe	49
4.5.1	Key Developments	49
4.5.2	Demand	49
4.5.3	Supply	49
4.5.4	Supply, Demand and Trade	50
4.6	Eastern Europe	51
4.6.1	Key Developments	51
4.6.2	Demand	51
4.6.2.1	Russia	51
4.6.2.2	Other Eastern Europe	51
4.6.3	Supply	52
4.6.3.1	Russia	52
4.6.3.2	Other Eastern Europe	52
4.6.4	Supply, Demand and Trade	53
4.6.4.1	Russia	53
4.6.4.2	Other Eastern Europe	53
4.7	Middle East	55
4.7.1	Key Developments	55
4.7.2	Demand	55
4.7.3	Supply	57
4.7.4	Supply, Demand and Trade	58
4.8	Africa	59
4.8.1	Demand	59
4.8.2	Supply	59
4.8.3	Supply, Demand and Trade	59
4.9	Asia Pacific	60
4.9.1	Key Developments	60
4.9.2	Demand	60
4.9.2.1	China	60
4.9.2.2	North-East Asia	60
4.9.2.3	South-East Asia	61
4.9.2.4	South Asia	62
4.9.2.5	Other Asia and Australasia	62
4.9.3	Supply	64
4.9.3.1	China	64
4.9.3.2	North-East Asia	64
4.9.3.3	South-East Asia	65
4.9.3.4	South Asia	65
4.9.3.5	Other Asia and Australasia	65
4.9.4	Supply, Demand and Trade	67
4.9.4.1	China	67



4.9.4.2	North-East Asia	67
4.9.4.3	South-East Asia	67
4.9.4.4	South Asia	68
5	Phenol	70
5.1	Global	70
5.1.1	Key Developments	70
5.1.2	Demand	70
5.1.3	Supply	74
5.1.4	Supply, Demand and Trade	76
5.2	North America	78
5.2.1	Key Developments	78
5.2.2	Demand	78
5.2.3	Supply	80
5.2.4	Supply, Demand and Trade	81
5.3	South America	84
5.3.1	Key Developments	84
5.3.2	Demand	84
5.3.3	Supply	86
5.3.4	Supply, Demand and Trade	86
5.4	Western Europe	88
5.4.1	Key Developments	88
5.4.2	Demand	88
5.4.3	Supply	90
5.4.4	Supply, Demand and Trade	92
5.5	Central Europe	94
5.5.1	Key Developments	94
5.5.2	Demand	94
5.5.3	Supply	96
5.5.4	Supply, Demand and Trade	97
5.6	Eastern Europe	98
5.6.1	Key Developments	98
5.6.2	Demand	98
5.6.2.1	Russia	98
5.6.2.2	Other Eastern Europe	99
5.6.3	Supply	100
5.6.3.1	Russia	100
5.6.3.2	Other Eastern Europe	100
5.6.4	Supply, Demand and Trade	101
5.6.4.1	Russia	101
5.6.4.2	Other Eastern Europe	102
5.7	Middle East	104
5.7.1	Key Developments	104
5.7.2	Demand	104
5.7.3	Supply	106



5.7.4	Supply, Demand and Trade	106
5.8	Africa	108
5.8.1	Key Developments	108
5.8.2	Demand	108
5.8.3	Supply	110
5.8.4	Supply, Demand and Trade	111
5.9	Asia Pacific	112
5.9.1	Key Developments	112
5.9.2	Demand	112
5.9.2.1	China	112
5.9.2.2	North-East Asia	114
5.9.2.3	South-East Asia	117
5.9.2.4	South Asia	119
5.9.2.5	Other Asia and Australasia	121
5.9.3	Supply	123
5.9.3.1	China	123
5.9.3.2	North-East Asia	124
5.9.3.3	South-East Asia	125
5.9.3.4	South Asia	126
5.9.3.5	Other Asia and Australasia	126
5.9.4	Supply, Demand and Trade	128
5.9.4.1	China	128
5.9.4.2	North-East Asia	129
5.9.4.3	South-East Asia	130
5.9.4.4	South Asia	132
5.9.4.5	Other Asia and Australasia	132
6	Acetone	135
6.1	Global	135
6.1.1	Key Developments	135
6.1.2	Demand	135
6.1.2.1	Solvent/Others	136
6.1.2.2	Bisphenol A	137
6.1.2.3	Methyl Methacrylate	137
6.1.2.4	Methyl Isobutyl Ketone	137
6.1.2.5	Methyl Isobutyl Ketone	137
6.1.2.6	Isopropanol	138
6.6.2.1	Russia	163
6.6.2.2	Other Eastern Europe	164
6.6.3.1	Russia	165
6.6.3.2	Other Eastern Europe	165
6.6.4.1	Russia	166
6.6.4.2	Other Eastern Europe	167
6.9.2.1	China	177
6.9.2.2	North-East Asia	179



6.9.2.3	South-East Asia	182
6.9.2.4	South Asia.....	183
6.9.2.5	Other Asia and Australasia	183
6.9.3.1	China	185
6.9.3.2	North-East Asia.....	186
6.9.3.3	South-East Asia	187
6.9.3.4	South Asia.....	187
6.9.3.5	Other Asia and Australasia	188
7	Bisphenol-A	193
7.1	Global	193
7.1.1	Key Developments	193
7.1.2	Demand.....	193
7.1.2.1	Polycarbonate (PC).....	193
7.1.2.2	Epoxy Resin	194
7.1.2.3	Others	195
7.1.3	Supply	197
7.1.4	Supply, Demand and Trade	199
7.2	North America	201
7.2.1	Key Developments	201
7.2.2	Demand.....	201
7.2.3	Supply	203
7.2.4	Supply, Demand and Trade	204
7.3	South America	206
7.3.1	Key Developments	206
7.3.2	Demand.....	206
7.3.3	Supply	207
7.3.4	Supply, Demand and Trade	208
7.4	Western Europe	209
7.4.1	Key Developments	209
7.4.2	Demand.....	209
7.4.3	Supply	211
7.4.4	Supply, Demand and Trade	212
7.5	Central Europe	213
7.5.1	Key Developments	213
7.5.2	Demand.....	213
7.5.3	Supply	214
7.5.4	Supply, Demand and Trade	215
7.6	Eastern Europe	216
7.6.1	Key Developments	216
7.6.2	Demand.....	216
7.6.2.1	Russia	216
7.6.2.2	Other Eastern Europe	217
7.6.3	Supply	218
7.6.3.1	Russia	218



7.6.3.2	Other Eastern Europe	218
7.6.4	Supply, Demand and Trade	219
7.6.4.1	Russia	219
7.6.4.2	Other Eastern Europe	219
7.7	Middle East	221
7.7.1	Key Developments	221
7.7.2	Demand	221
7.7.3	Supply	223
7.7.4	Supply, Demand and Trade	224
7.8	Africa	225
7.8.1	Key Developments	225
7.8.2	Demand	225
7.8.3	Supply	225
7.8.4	Supply, Demand and Trade	226
7.9	Asia Pacific	227
7.9.1	Key Developments	227
7.9.2	Demand	227
7.9.2.1	China	227
7.9.2.2	North-East Asia	229
7.9.2.3	South-East Asia	231
7.9.2.4	South Asia	232
7.9.2.5	Other Asia and Australasia	233
7.9.3	Supply	235
7.9.3.1	China	235
7.9.3.2	North-East Asia	236
7.9.3.3	South-East Asia	237
7.9.3.4	South Asia	238
7.9.3.5	Other Asia and Australasia	238
7.9.4	Supply, Demand and Trade	241
7.9.4.1	China	241
7.9.4.2	North-East Asia	241
7.9.4.3	South-East Asia	242
7.9.4.4	South Asia	242
8	Polycarbonate	245
8.1	Global	245
8.1.1	Key Developments	245
8.1.2	Demand	245
8.1.3	Supply	249
8.1.4	Supply, Demand and Trade	251
8.2	North America	253
8.2.1	Key Developments	253
8.2.2	Demand	253
8.2.3	Supply	256
8.2.4	Supply, Demand and Trade	257



8.3	South America	259
8.3.1	Key Developments	259
8.3.2	Demand	259
8.3.3	Supply	260
8.3.4	Supply, Demand and Trade	261
8.4	Western Europe	262
8.4.1	Key Developments	262
8.4.2	Demand	262
8.4.3	Supply	265
8.4.4	Supply, Demand and Trade	266
8.5	Central Europe	267
8.5.1	Key Developments	267
8.5.2	Demand	267
8.5.3	Supply	269
8.5.4	Supply, Demand and Trade	270
8.6	Eastern Europe	271
8.6.1	Key Developments	271
8.6.2	Demand	271
8.6.2.1	Russia	271
8.6.2.2	Other Eastern Europe	273
8.6.3	Supply	274
8.6.3.1	Russia	274
8.6.3.2	Other Eastern Europe	274
8.6.4	Supply, Demand and Trade	275
8.6.4.1	Russia	275
8.6.4.2	Other Eastern Europe	276
8.7	Middle East	278
8.7.1	Key Developments	278
8.7.2	Demand	278
8.7.3	Supply	281
8.7.4	Supply, Demand and Trade	282
8.8	Africa	283
8.8.1	Key Developments	283
8.8.2	Demand	283
8.8.3	Supply	284
8.8.4	Supply, Demand and Trade	285
8.9	Asia Pacific	286
8.9.1	Key Developments	286
8.9.2	Demand	286
8.9.2.1	China	286
8.9.2.2	North-East Asia	288
8.9.2.3	South-East Asia	294
8.9.2.4	South Asia	301
8.9.2.5	Other Asia and Australasia	303



8.9.3	Supply	304
8.9.3.1	China	304
8.9.3.2	North-East Asia	306
8.9.3.3	South-East Asia	307
8.9.3.4	South Asia	307
8.9.3.5	Other Asia and Australasia	307
8.9.4	Supply, Demand and Trade	309
8.9.4.1	China	309
8.9.4.2	North-East Asia	309
8.9.4.3	South-East Asia	309
8.9.4.4	South Asia	310

Appendices

A	Methodology	313
A.1	Market Dynamics Forecasting Methodology	313
A.1.1	Capacity Availability and Forecasting	313
A.1.2	End-Use Consumption Forecasting	313
A.1.2.1	End-Use Sector Growth	314
A.1.2.2	Penetration (New Application Growth)	314
A.1.2.3	Short-term Influences	315
A.1.2.4	Monomer Consumption Forecasting	315
A.1.3	Production and Trade Forecasting	316
B	The Phenol Industry – Technology	317
B.1	Cumene	317
B.2	Phenol	318
B.3	Acetone	319
B.4	Bisphenol A	320
B.4.1	HCl Catalyzed Process	320
B.4.2	Ion Exchange Resin Process	321
B.5	Polycarbonate	322

Figures

Figure 1	Global Propylene Demand, 2021-e	18
Figure 2	Global GDP Growth vs Propylene Consumption Growth	18
Figure 3	Global Combined Propylene Consumption	18
Figure 4	Regional Propylene Capacity	21
Figure 5	Global Propylene Production by Process	21
Figure 6	Regional Propylene Capacity Addition	21
Figure 7	Global Propylene Supply and Demand	22
Figure 8	Phenol/Acetone Value Chain	27
Figure 9	Integration of Leading Producers in the Phenol/Acetone Value Chain	30
Figure 10	Global Cumene Consumption by End-Use, 2021-e	32
Figure 11	Global GDP Growth vs Cumene Consumption Growth	32
Figure 12	Global Cumene Consumption by Region	33



Figure 13	Global Cumene Capacity by Marketer, 2021-e	34
Figure 14	Global Cumene Capacity Additions.....	35
Figure 15	Global Cumene Capacity.....	35
Figure 16	Global Cumene Supply and Demand.....	37
Figure 17	Global Cumene Net Exports (Imports)	37
Figure 18	North America Cumene Consumption, 2021-e	39
Figure 19	North America Cumene Supply, Demand and Trade.....	41
Figure 20	United States Cumene Supply, Demand and Trade	42
Figure 21	South America Cumene Supply, Demand and Trade	44
Figure 22	Western Europe Cumene Consumption, 2021-e	46
Figure 23	Western Europe Cumene Supply, Demand and Trade.....	48
Figure 24	Central Europe Cumene Supply, Demand and Trade	50
Figure 25	Russia Cumene Supply, Demand and Trade.....	53
Figure 26	Total Eastern Europe Russia Cumene Supply, Demand and Trade.....	54
Figure 27	Middle East Cumene Consumption, 2021-e.....	56
Figure 28	Middle East Cumene Supply, Demand and Trade	58
Figure 29	Asia Pacific Cumene Consumption, 2021-e.....	63
Figure 30	Asia Pacific Cumene Supply, Demand and Trade	68
Figure 31	China Cumene Supply, Demand and Trade	69
Figure 32	Global Phenol Consumption by End-Use, 2021-e	72
Figure 33	Global GDP Growth vs Phenol Consumption Growth.....	73
Figure 34	Global Phenol Consumption by Region	73
Figure 35	Global Phenol Capacity by Marketer, 2021-e.....	75
Figure 36	Global Phenol Capacity Additions	75
Figure 37	Global Phenol Capacity	75
Figure 38	Global Phenol Supply and Demand	77
Figure 39	Global Phenol Net Exports (Imports).....	77
Figure 40	North America Phenol Consumption, 2021-e.....	79
Figure 41	North America Phenol Supply, Demand and Trade	82
Figure 42	United States Phenol Supply, Demand and Trade	83
Figure 43	South America Phenol Consumption, 2021-e	85
Figure 44	South America Phenol Supply, Demand and Trade	87
Figure 45	Western Europe Phenol Consumption, 2021-e.....	90
Figure 46	Western Europe Phenol Supply, Demand and Trade	93
Figure 47	Central Europe Phenol Consumption, 2021-e.....	95
Figure 48	Central Europe Phenol Supply, Demand and Trade	97
Figure 49	Russia Phenol Consumption, 2021-e	99
Figure 50	Russia Phenol Supply, Demand and Trade	101
Figure 51	Other Eastern Europe Phenol Supply, Demand and Trade	102
Figure 52	Total Eastern Europe Phenol Supply, Demand and Trade	103
Figure 53	Middle East Phenol Consumption, 2021-e	105
Figure 54	Middle East Phenol Supply, Demand and Trade	107
Figure 55	Africa Phenol Consumption, 2021-e.....	109
Figure 56	Africa Phenol Supply, Demand and Trade	111



Figure 57	Asia Pacific Phenol Consumption, 2021-e	122
Figure 58	Asia Pacific Phenol Supply, Demand and Trade	133
Figure 59	China Phenol Supply, Demand and Trade.....	134
Figure 60	Global Acetone Consumption by End-Use, 2021-e	139
Figure 61	Global GDP Growth vs Acetone Consumption Growth.....	139
Figure 62	Global Acetone Consumption by Region	140
Figure 63	Global Acetone Capacity by Marketer, 2021-e.....	142
Figure 64	Global Acetone Capacity Additions	142
Figure 65	Global Acetone Capacity	142
Figure 66	Global Acetone Supply and Demand	144
Figure 67	Global Acetone Net Exports (Imports).....	144
Figure 68	North America Acetone Consumption, 2021-e.....	146
Figure 69	North America Acetone Supply, Demand and Trade	149
Figure 70	United States Acetone Supply, Demand and Trade	150
Figure 71	South America Acetone Consumption, 2021-e	152
Figure 72	South America Acetone Supply, Demand and Trade	154
Figure 73	Western Europe Acetone Consumption, 2021-e.....	156
Figure 74	Western Europe Acetone Supply, Demand and Trade	159
Figure 75	Central Europe Acetone Consumption, 2021-e.....	161
Figure 76	Central Europe Acetone Supply, Demand and Trade	162
Figure 77	Russia Acetone Consumption, 2021-e.....	164
Figure 78	Russia Acetone Supply, Demand and Trade	166
Figure 79	Other Eastern Europe Acetone Supply, Demand and Trade	167
Figure 80	Total Eastern Europe Acetone Supply, Demand and Trade	168
Figure 81	Middle East Acetone Consumption, 2021-e	170
Figure 82	Middle East Acetone Supply, Demand and Trade	172
Figure 83	Africa Acetone Consumption, 2021-e.....	174
Figure 84	Africa Acetone Supply, Demand and Trade	176
Figure 85	Asia Pacific Acetone Consumption, 2021-e	184
Figure 86	Asia Pacific Acetone Supply, Demand and Trade	191
Figure 87	China Acetone Supply, Demand and Trade.....	192
Figure 88	Global BPA Demand, 2021-e	195
Figure 89	Global GDP Growth vs. BPA Consumption Growth	196
Figure 90	Global BPA Consumption by Region	196
Figure 91	Global BPA Capacity Share by Marketer, 2021-e	198
Figure 92	Global BPA Capacity	198
Figure 93	Global BPA Capacity Additions	198
Figure 94	Global BPA Supply and Demand	200
Figure 95	Global BPA Net Exports(Imports).....	200
Figure 96	North America BPA Consumption, 2021-e.....	202
Figure 97	North America BPA Supply, Demand and Trade	204
Figure 98	United States BPA Supply, Demand and Trade	205
Figure 99	South America BPA Supply, Demand and Trade	208
Figure 100	Western Europe BPA Consumption, 2021-e.....	210



Figure 101 Western Europe BPA Supply, Demand and Trade	212
Figure 102 Central Europe BPA Consumption, 2021-e.....	214
Figure 103 Central Europe BPA Supply, Demand and Trade	215
Figure 104 Russia BPA Consumption, 2021-e	217
Figure 105 Russia BPA Supply, Demand and Trade	219
Figure 106 Total Eastern Europe BPA Supply, Demand and Trade	220
Figure 107 Middle East BPA Consumption, 2021-e	222
Figure 108 Middle East BPA Supply, Demand and Trade	224
Figure 109 Africa BPA Supply, Demand and Trade	226
Figure 110 Asia Pacific BPA Consumption, 2021-e	234
Figure 111 Asia Pacific BPA Supply, Demand and Trade.....	243
Figure 112 China BPA Supply, Demand and Trade.....	244
Figure 113 Global Polycarbonate Demand, 2021-e	247
Figure 114 Global GDP Growth vs. Polycarbonate Consumption Growth	247
Figure 115 Global Polycarbonate Consumption by Region	248
Figure 116 Global Polycarbonate Capacity Share by Marketer, 2021-e	249
Figure 117 Global Polycarbonate Capacity Additions	250
Figure 118 Global Polycarbonate Capacity	250
Figure 119 Global Polycarbonate Supply and Demand	252
Figure 120 Global Polycarbonate Net Exports(Imports)	252
Figure 121 North America Polycarbonate Consumption, 2021-e	255
Figure 122 North America Polycarbonate Supply, Demand and Trade	257
Figure 123 United States Polycarbonate Supply, Demand and Trade.....	258
Figure 124 South America Polycarbonate Consumption, 2021-e	260
Figure 125 South America Polycarbonate Supply, Demand and Trade.....	261
Figure 126 Western Europe Polycarbonate Consumption, 2021-e	264
Figure 127 Western Europe Polycarbonate Supply, Demand and Trade	266
Figure 128 Central Europe Polycarbonate Consumption, 2021-e.....	269
Figure 129 Central Europe Polycarbonate Supply, Demand and Trade	270
Figure 130 Russia Polycarbonate Consumption, 2021-e	272
Figure 131 Other Eastern Europe Polycarbonate Consumption, 2021-e.....	273
Figure 132 Russia Polycarbonate Supply, Demand and Trade	275
Figure 133 Other Eastern Europe Polycarbonate Supply, Demand and Trade	276
Figure 134 Total Eastern Europe Polycarbonate Supply, Demand and Trade	277
Figure 135 Middle East Polycarbonate Consumption, 2021-e	280
Figure 136 Middle East Polycarbonate Supply, Demand and Trade	282
Figure 137 Africa Polycarbonate Consumption, 2021-e.....	284
Figure 138 Africa Polycarbonate Supply, Demand and Trade	285
Figure 139 Asia Pacific Polycarbonate Consumption, 2021-e	303
Figure 140 Asia Pacific Polycarbonate Supply, Demand and Trade.....	310
Figure 141 China Polycarbonate Supply, Demand and Trade	311
Figure 142 End-Use Consumption Drivers	314
Figure 143 Monomer Consumption Drivers	315
Figure 144 Trade Considerations	316



Tables

Table 1	Global Cumene Consumption by End-Use	32
Table 2	Global Cumene Consumption by Region	33
Table 3	Global Cumene Supply and Demand.....	37
Table 4	North America Cumene Consumption by End-Use.....	39
Table 5	North America Cumene Consumption by Country	39
Table 6	Cumene Capacity in North America	40
Table 7	North America Cumene Supply, Demand and Trade.....	41
Table 8	United States Cumene Supply, Demand and Trade	42
Table 9	South America Cumene Consumption by End-Use	43
Table 10	South America Cumene Consumption by Country	43
Table 11	Cumene Capacity in South America	44
Table 12	South America Cumene Supply, Demand and Trade	44
Table 13	Western Europe Cumene Consumption by End-Use.....	46
Table 14	Cumene Capacity in Western Europe	47
Table 15	Western Europe Cumene Supply, Demand and Trade.....	48
Table 16	Central Europe Cumene Consumption	49
Table 17	Cumene Capacity in Central Europe	49
Table 18	Central Europe Cumene Supply, Demand and Trade	50
Table 19	Russia Cumene Consumption.....	51
Table 20	Cumene Capacity in Russia	52
Table 21	Russia Cumene Supply, Demand and Trade	53
Table 22	Total Eastern Europe Cumene Supply, Demand and Trade.....	54
Table 23	Middle East Cumene Consumption by End-Use.....	56
Table 24	Middle East Cumene Consumption by Country	56
Table 25	Cumene Capacity in the Middle East	57
Table 26	Middle East Cumene Supply, Demand and Trade	58
Table 27	Asia Pacific Cumene Consumption by End-Use	63
Table 28	Asia Pacific Cumene Consumption by Country	63
Table 29	Cumene Capacity in Asia Pacific	66
Table 30	Asia Pacific Cumene Supply, Demand and Trade	68
Table 31	China Cumene Supply, Demand and Trade	69
Table 32	Global Phenol Consumption by End-Use.....	72
Table 33	Global Phenol Consumption by Region	73
Table 34	Global Phenol Supply and Demand	77
Table 35	North America Phenol Consumption by End-Use	79
Table 36	North America Phenol Consumption by Country.....	79
Table 37	Phenol Capacity in North America	81
Table 38	North America Phenol Supply, Demand and Trade	82
Table 39	United States Phenol Supply, Demand and Trade	83
Table 40	South America Phenol Consumption by End-Use	85
Table 41	South America Phenol Consumption by Country	85
Table 42	Phenol Capacity in South America	86



Table 43	South America Phenol Supply, Demand and Trade	87
Table 44	Western Europe Phenol Consumption by End-Use	90
Table 45	Phenol Capacity in Western Europe	91
Table 46	Western Europe Phenol Supply, Demand and Trade	93
Table 47	Central Europe Phenol Consumption	95
Table 48	Phenol Capacity in Central Europe	96
Table 49	Central Europe Phenol Supply, Demand and Trade	97
Table 50	Russia Phenol Consumption	99
Table 51	Other Eastern Europe Phenol Consumption	99
Table 52	Phenol Capacity in Russia.....	100
Table 53	Russia Phenol Supply, Demand and Trade	101
Table 54	Other Eastern Europe Phenol Supply, Demand and Trade	102
Table 55	Total Eastern Europe Phenol Supply, Demand and Trade	103
Table 56	Middle East Phenol Consumption by End-Use	105
Table 57	Middle East Phenol Consumption by Country.....	105
Table 58	Phenol Capacity in the Middle East.....	106
Table 59	Middle East Phenol Supply, Demand and Trade	107
Table 60	Africa Phenol Consumption by End-Use	109
Table 61	Africa Phenol Consumption by Country	109
Table 62	Phenol Capacity in Africa	110
Table 63	Africa Phenol Supply, Demand and Trade	111
Table 64	Asia Pacific Phenol Consumption by End-Use.....	122
Table 65	Asia Pacific Phenol Consumption by Country	122
Table 66	Phenol Capacity in Asia Pacific	127
Table 67	Asia Pacific Phenol Supply, Demand and Trade	133
Table 68	China Phenol Supply, Demand and Trade	134
Table 69	Global Acetone Consumption by End-Use.....	139
Table 70	Global Acetone Consumption by Region	140
Table 71	Global Acetone Supply and Demand	144
Table 72	North America Acetone Consumption by End-Use	146
Table 73	North America Acetone Consumption by Country	146
Table 74	Acetone Capacity in North America	148
Table 75	North America Acetone Supply, Demand and Trade	149
Table 76	United States Acetone Supply, Demand and Trade	150
Table 77	South America Acetone Consumption by End-Use	152
Table 78	South America Acetone Consumption by Country	152
Table 79	Acetone Capacity in South America.....	153
Table 80	South America Acetone Supply, Demand and Trade	154
Table 81	Western Europe Acetone Consumption by End-Use	156
Table 82	Acetone Capacity in Western Europe	157
Table 83	Western Europe Acetone Supply, Demand and Trade	159
Table 84	Central Europe Acetone Consumption.....	161
Table 85	Acetone Capacity in Central Europe	161
Table 86	Central Europe Acetone Supply, Demand and Trade	162



Table 87	Russia Acetone Consumption	164
Table 88	Other Eastern Europe Acetone Consumption	164
Table 89	Acetone Capacity in Russia.....	165
Table 90	Russia Acetone Supply, Demand and Trade	166
Table 91	Other Eastern Europe Acetone Supply, Demand and Trade	167
Table 92	Total Eastern Europe Acetone Supply, Demand and Trade	168
Table 93	Middle East Acetone Consumption by End-Use	170
Table 94	Middle East Acetone Consumption by Country.....	170
Table 95	Acetone Capacity in the Middle East.....	171
Table 96	Middle East Acetone Supply, Demand and Trade	172
Table 97	Africa Acetone Consumption by End-Use	174
Table 98	Africa Acetone Consumption by Country	174
Table 99	Acetone Capacity in Africa	175
Table 100	Africa Acetone Supply, Demand and Trade	176
Table 101	Asia Pacific Acetone Consumption by End-Use.....	184
Table 102	Asia Pacific Acetone Consumption by Country	184
Table 103	Acetone Capacity in Asia Pacific	188
Table 104	Asia Pacific Acetone Supply, Demand and Trade	191
Table 105	China Acetone Supply, Demand and Trade.....	192
Table 106	Global BPA Consumption by Derivative.....	195
Table 107	Global BPA Consumption by Region	196
Table 108	Global BPA Supply and Demand	200
Table 109	North American BPA Consumption	202
Table 110	North America BPA Consumption by Country.....	202
Table 111	BPA Capacity in North America	203
Table 112	North America BPA Supply, Demand and Trade	204
Table 113	United States BPA Supply, Demand and Trade	205
Table 114	South America BPA Consumption	206
Table 115	South America BPA Consumption by Country	206
Table 116	BPA Capacity in South America	207
Table 117	South America BPA Supply, Demand and Trade	208
Table 118	Western Europe BPA Consumption	210
Table 119	BPA Capacity in Western Europe	211
Table 120	Western Europe BPA Supply, Demand and Trade	212
Table 121	Central Europe BPA Consumption.....	214
Table 122	BPA Capacity in Central Europe	214
Table 123	Central Europe BPA Supply, Demand and Trade	215
Table 124	Russia BPA Consumption by End-Use	217
Table 125	BPA Capacity in Russia.....	218
Table 126	Russia BPA Supply, Demand and Trade	219
Table 127	Total Eastern Europe BPA Supply, Demand and Trade	220
Table 128	Middle East BPA Consumption by Derivative	222
Table 129	Middle East BPA Consumption by Country	222
Table 130	BPA Capacity in the Middle East.....	223



Table 131	Middle East BPA Supply, Demand and Trade	224
Table 132	Africa BPA Consumption by End-Use	225
Table 133	Africa BPA Consumption by Country	225
Table 134	Africa BPA Supply, Demand and Trade	226
Table 135	Asia Pacific BPA Consumption by End-Use.....	234
Table 136	Asia Pacific BPA Consumption by Country	234
Table 137	BPA Capacity in Asia Pacific.....	239
Table 138	BPA Capacity in Asia Pacific (Cont.)	240
Table 139	Asia Pacific BPA Supply, Demand and Trade.....	243
Table 140	China BPA Supply, Demand and Trade	244
Table 141	Global Polycarbonate Consumption by End-Use	247
Table 142	Global Polycarbonate Consumption by Region	248
Table 143	Global Polycarbonate Supply and Demand	252
Table 144	North America Polycarbonate Consumption by End-Use	255
Table 145	North America Polycarbonate Consumption by Country.....	255
Table 146	Polycarbonate Capacity in North America.....	256
Table 147	North America Polycarbonate Supply, Demand and Trade	257
Table 148	United States Polycarbonate Supply, Demand and Trade.....	258
Table 149	South America Polycarbonate Consumption by End-Use.....	260
Table 150	South America Polycarbonate Consumption by Country	260
Table 151	South America Polycarbonate Supply, Demand and Trade.....	261
Table 152	Western Europe Polycarbonate Consumption by End-Use	264
Table 153	Polycarbonate Capacity in Western Europe.....	265
Table 154	Western Europe Polycarbonate Supply, Demand and Trade	266
Table 155	Central Europe Polycarbonate Consumption	269
Table 156	Central Europe Polycarbonate Supply, Demand and Trade	270
Table 157	Russia Polycarbonate Consumption	272
Table 158	Other Eastern Europe Polycarbonate Consumption	273
Table 159	Polycarbonate Capacity in Russia.....	274
Table 160	Russia Polycarbonate Supply, Demand and Trade	275
Table 161	Other Eastern Europe Polycarbonate Supply, Demand and Trade	276
Table 162	Total Eastern Europe Polycarbonate Supply, Demand and Trade	277
Table 163	Middle East Polycarbonate Consumption by End-Use	280
Table 164	Middle East Polycarbonate Consumption by Country	280
Table 165	Polycarbonate Capacity in the Middle East.....	281
Table 166	Middle East Polycarbonate Supply, Demand and Trade	282
Table 167	Africa Polycarbonate Consumption by End-Use	284
Table 168	Africa Polycarbonate Consumption by Country	284
Table 169	Africa Polycarbonate Supply, Demand and Trade	285
Table 170	Asia Pacific Polycarbonate Consumption by End-Use.....	304
Table 171	Asia Pacific Polycarbonate Consumption by Country	304
Table 172	Polycarbonate Capacity in Asia Pacific	308
Table 173	Asia Pacific Polycarbonate Supply, Demand and Trade.....	310
Table 174	China Polycarbonate Supply, Demand and Trade	311