

# PhazeComp-Generated L<sup>A</sup>T<sub>E</sub>X Report Template

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# 1. Executive Summary

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## 2. Introduction

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## 4. Conclusions

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# Acknowledgements

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# Nomenclature

# References

# Tables

Table 1: Component Properties for Characterization “Bad\_Mud”

Component	LMW	MW
C10	130.781	137.211
C11	143.408	149.747
C12	155.881	162.138
C13	168.216	174.400
C14	180.426	186.544
C15	192.521	198.580
C16	204.510	210.513
C17	216.400	222.351
C18	228.196	234.099
C19	239.903	245.760
C20	251.526	257.339
C21	263.068	268.840
C22	274.533	280.266
C23	285.925	291.620
C24	297.246	302.906
C25	308.500	314.126
C26	319.690	325.284
C27	330.819	336.382
C28	341.888	347.422
C29	352.902	358.406
C30+	363.861	369.339

Table 2: Mixture “Raw\_Mud” Compositions

Component	Mole Fractions	Mass Fractions
C10	0.000708	0.000450
C11	0.006397	0.004435
C12	0.023713	0.017801
C13	0.060601	0.048932
C14	0.087144	0.075265
C15	0.136173	0.125199
C16	0.161686	0.157589
C17	0.196650	0.202445
C18	0.182441	0.197740
C19	0.098440	0.112010
C20	0.030669	0.036541
C21	0.005972	0.007433
C22	0.001778	0.002307
C23	0.001980	0.002674
C24	0.000540	0.000757
C25	0.000793	0.001153
C26	0.000142	0.000213
C27	0.000284	0.000442
C28	0.000209	0.000335
C29	0.000318	0.000528
C30+	0.003362	0.005749
<b>MW</b>		<b>215.99</b>

Table 3: Essential Properties for Characterization “Mud”

<b>Component</b>	<b>MW</b>
<b>C10</b>	137.211
<b>C11</b>	149.747
<b>C12</b>	162.138
<b>C13</b>	174.400
<b>C14</b>	186.544
<b>C15</b>	198.580
<b>C16</b>	210.513
<b>C17</b>	222.351
<b>C18</b>	234.099
<b>C19</b>	245.760
<b>C20</b>	257.339
<b>C21</b>	268.840
<b>C22</b>	280.266
<b>C23</b>	291.620
<b>C24</b>	302.906
<b>C25</b>	314.126
<b>C26</b>	325.284
<b>C27</b>	335.112
<b>C28</b>	346.105
<b>C29</b>	357.047
<b>C30+</b>	370.604

Table 4: Mixture “Adjusted\_Mud” Compositions

Component	Mole Fractions	Mass Fractions
C10	0.000711	0.000453
C11	0.006424	0.004467
C12	0.023812	0.017927
C13	0.060853	0.049278
C14	0.087507	0.075797
C15	0.136740	0.126083
C16	0.162359	0.158702
C17	0.197469	0.203875
C18	0.183201	0.199137
C19	0.098850	0.112801
C20	0.030797	0.036799
C21	0.005997	0.007486
C22	0.001786	0.002324
C23	0.001989	0.002693
C24	0.000542	0.000763
C25	0.000796	0.001161
C26	0.000142	0.000215
C27	2.01e−05	3.13e−05
C28	4.84e−06	7.78e−06
C29	1.09e−06	1.81e−06
C30+	2.91e−07	5.02e−07
<b>MW</b>		<b>215.36</b>

Table 5: Component Properties for Characterization “Bad\_SCN”

Component	LMW	MW	Full Name
CO2		44.010	“Carbon Dioxide”
N2		28.014	“Nitrogen”
C1		16.043	“Methane”
C2		30.070	“Ethane”
C3		44.097	“Propane”
I-C4		58.123	“Isobutane”
N-C4		58.123	“Butane”
I-C5		72.150	“Isopentane”
N-C5		72.150	“Pentane”
C-C5		70.134	“Cyclopentane”
C6	77.771	84.693	“C6”
MC-C5		84.161	“Methylcyclopentane”
BENZENE		78.114	“Benzene”
C-C6		84.161	“Cyclohexane”
C7	91.309	98.206	“C7”
MC-C6		98.188	“Methylcyclohexane”
TOLUENE		92.141	“Toluene”
C8	104.811	111.631	“C8”
P-XYLENE		106.167	“p-Xylene”
O-XYLENE		106.167	“o-Xylene”
C9	117.979	124.514	“C9”
124TM-BEN		120.194	“1,2,4-Trimethylbenzene”
C10	130.781	137.211	“C10”
C11	143.408	149.747	“C11”
C12	155.881	162.138	“C12”
C13	168.216	174.400	“C13”
C14	180.426	186.544	“C14”
C15	192.521	198.580	“C15”
C16	204.510	210.513	“C16”
C17	216.400	222.351	“C17”
C18	228.196	234.099	“C18”
C19	239.903	245.760	“C19”
C20	251.526	257.339	“C20”
C21	263.068	268.840	“C21”
C22	274.533	280.266	“C22”
C23	285.925	291.620	“C23”
C24	297.246	302.906	“C24”
C25	308.500	314.126	“C25”
C26	319.690	325.284	“C26”
C27	330.819	336.382	“C27”
C28	341.888	347.422	“C28”
C29	352.902	358.406	“C29”
C30+	363.861	550.000	“C30+”

Table 6: Component Properties for Characterization “Decontaminated”

Component	Full Name	MW	LMW
<b>CO2</b>	“Carbon Dioxide”	44.010	
<b>N2</b>	“Nitrogen”	28.014	
<b>C1</b>	“Methane”	16.043	
<b>C2</b>	“Ethane”	30.070	
<b>C3</b>	“Propane”	44.097	
<b>I-C4</b>	“Isobutane”	58.123	
<b>N-C4</b>	“Butane”	58.123	
<b>I-C5</b>	“Isopentane”	72.150	
<b>N-C5</b>	“Pentane”	72.150	
<b>C-C5</b>	“Cyclopentane”	70.134	
<b>C6</b>	“C6”	84.693	77.771
<b>MC-C5</b>	“Methylcyclopentane”	84.161	
<b>BENZENE</b>	“Benzene”	78.114	
<b>C-C6</b>	“Cyclohexane”	84.161	
<b>C7</b>	“C7”	98.206	91.309
<b>MC-C6</b>	“Methylcyclohexane”	98.188	
<b>TOLUENE</b>	“Toluene”	92.141	
<b>C8</b>	“C8”	111.631	104.811
<b>P-XYLENE</b>	“p-Xylene”	106.167	
<b>O-XYLENE</b>	“o-Xylene”	106.167	
<b>C9</b>	“C9”	124.514	117.979
<b>124TM-BEN</b>	“1,2,4-Trimethylbenzene”	120.194	
<b>C10</b>	“C10”	137.211	130.781
<b>C11</b>	“C11”	149.747	143.408
<b>C12</b>	“C12”	162.138	155.881
<b>C13</b>	“C13”	174.400	168.216
<b>C14</b>	“C14”	186.544	180.426
<b>C15</b>	“C15”	198.580	192.521
<b>C16</b>	“C16”	210.513	204.510
<b>C17</b>	“C17”	222.351	216.400
<b>C18</b>	“C18”	234.099	228.196
<b>C19</b>	“C19”	245.760	239.903
<b>C20</b>	“C20”	257.339	251.526
<b>C21</b>	“C21”	268.840	263.068
<b>C22</b>	“C22”	280.266	274.533
<b>C23</b>	“C23”	291.620	285.925
<b>C24</b>	“C24”	302.906	297.246
<b>C25</b>	“C25”	314.126	308.500
<b>C26</b>	“C26”	325.284	319.690
<b>C27</b>	“C27”	336.382	330.819
<b>C28</b>	“C28”	347.422	341.888
<b>C29</b>	“C29”	358.406	352.902
<b>C30+</b>	“C30+”	517.471	363.861

Table 7: Mixture “Contaminated” Compositions

Component	Mole Fractions	Mass Fractions
<b>CO2</b>	0.012480	0.005520
<b>N2</b>	0.001705	0.000480
<b>C1</b>	0.430564	0.069420
<b>C2</b>	0.053243	0.016090
<b>C3</b>	0.052463	0.023250
<b>I-C4</b>	0.009022	0.005270
<b>N-C4</b>	0.026826	0.015670
<b>I-C5</b>	0.010923	0.007920
<b>N-C5</b>	0.015722	0.011400
<b>C-C5</b>	0.000000	0.000000
<b>C6</b>	0.023189	0.019737
<b>MC-C5</b>	0.006321	0.005346
<b>BENZENE</b>	0.002560	0.002010
<b>C-C6</b>	0.004800	0.004060
<b>C7</b>	0.020813	0.020541
<b>MC-C6</b>	0.007455	0.007356
<b>TOLUENE</b>	0.005361	0.004965
<b>C8</b>	0.022896	0.025687
<b>P-XYLENE</b>	0.005378	0.005738
<b>O-XYLENE</b>	0.002289	0.002442
<b>C9</b>	0.020608	0.025787
<b>124TM-BEN</b>	0.000000	0.000000
<b>C10</b>	0.024276	0.033475
<b>C11</b>	0.019579	0.029465
<b>C12</b>	0.017304	0.028196
<b>C13</b>	0.017575	0.030804
<b>C14</b>	0.016841	0.031573
<b>C15</b>	0.015665	0.031262
<b>C16</b>	0.013962	0.029538
<b>C17</b>	0.013143	0.029369
<b>C18</b>	0.012125	0.028526
<b>C19</b>	0.010514	0.025969
<b>C20</b>	0.008298	0.021460
<b>C21</b>	0.006959	0.018802
<b>C22</b>	0.006436	0.018129
<b>C23</b>	0.006011	0.017617
<b>C24</b>	0.005236	0.015939
<b>C25</b>	0.004845	0.015295
<b>C26</b>	0.004547	0.014863
<b>C27</b>	0.004578	0.015476
<b>C28</b>	0.004289	0.014974
<b>C29</b>	0.003808	0.013718
<b>C30+</b>	0.049391	0.256860
<b>MW</b>		<b>99.50</b>

Table 8: Mixture “Decontaminated” Compositions

Component	Mole Fractions	Mass Fractions
<b>CO2</b>	0.012688	0.005723
<b>N2</b>	0.001733	0.000498
<b>C1</b>	0.437736	0.071972
<b>C2</b>	0.054130	0.016682
<b>C3</b>	0.053337	0.024105
<b>I-C4</b>	0.009172	0.005464
<b>N-C4</b>	0.027273	0.016246
<b>I-C5</b>	0.011105	0.008211
<b>N-C5</b>	0.015984	0.011819
<b>C-C5</b>	0.000000	0.000000
<b>C6</b>	0.023575	0.020463
<b>MC-C5</b>	0.006426	0.005543
<b>BENZENE</b>	0.002603	0.002084
<b>C-C6</b>	0.004880	0.004209
<b>C7</b>	0.021160	0.021297
<b>MC-C6</b>	0.007579	0.007627
<b>TOLUENE</b>	0.005451	0.005147
<b>C8</b>	0.023278	0.026631
<b>P-XYLENE</b>	0.005468	0.005949
<b>O-XYLENE</b>	0.002327	0.002532
<b>C9</b>	0.020951	0.026735
<b>124TM-BEN</b>	0.000000	0.000000
<b>C10</b>	0.024668	0.034689
<b>C11</b>	0.019798	0.030384
<b>C12</b>	0.017195	0.028574
<b>C13</b>	0.016854	0.030124
<b>C14</b>	0.015664	0.029947
<b>C15</b>	0.013648	0.027776
<b>C16</b>	0.011490	0.024790
<b>C17</b>	0.010073	0.022954
<b>C18</b>	0.009276	0.022254
<b>C19</b>	0.009043	0.022776
<b>C20</b>	0.007923	0.020896
<b>C21</b>	0.006975	0.019218
<b>C22</b>	0.006514	0.018710
<b>C23</b>	0.006078	0.018165
<b>C24</b>	0.005314	0.016497
<b>C25</b>	0.004912	0.015815
<b>C26</b>	0.004620	0.015402
<b>C27</b>	0.004654	0.016044
<b>C28</b>	0.004360	0.015524
<b>C29</b>	0.003872	0.014222
<b>C30+</b>	0.050214	0.266303
<b>MW</b>		<b>97.57</b>

# Figures

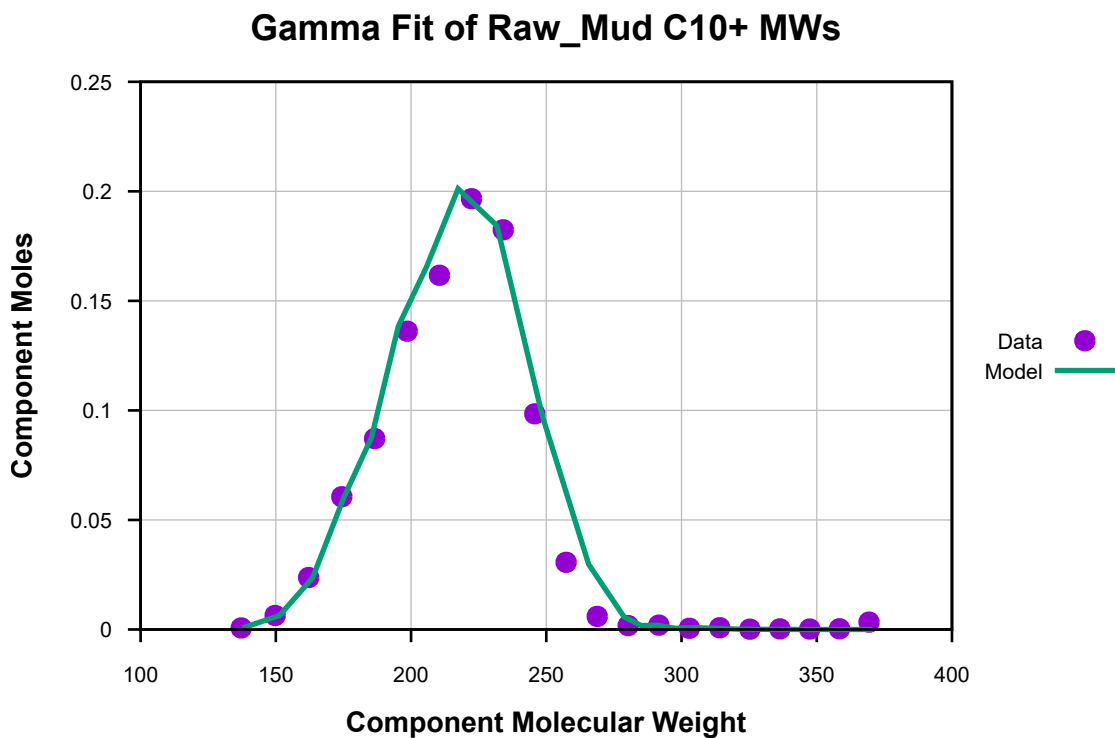


Figure 1: Molar Gamma Fit of Raw\_Mud C10+ MWs. Gamma Shape = 71.496, Average = 213.20, Bound = 128.00, Origin = 0.00.

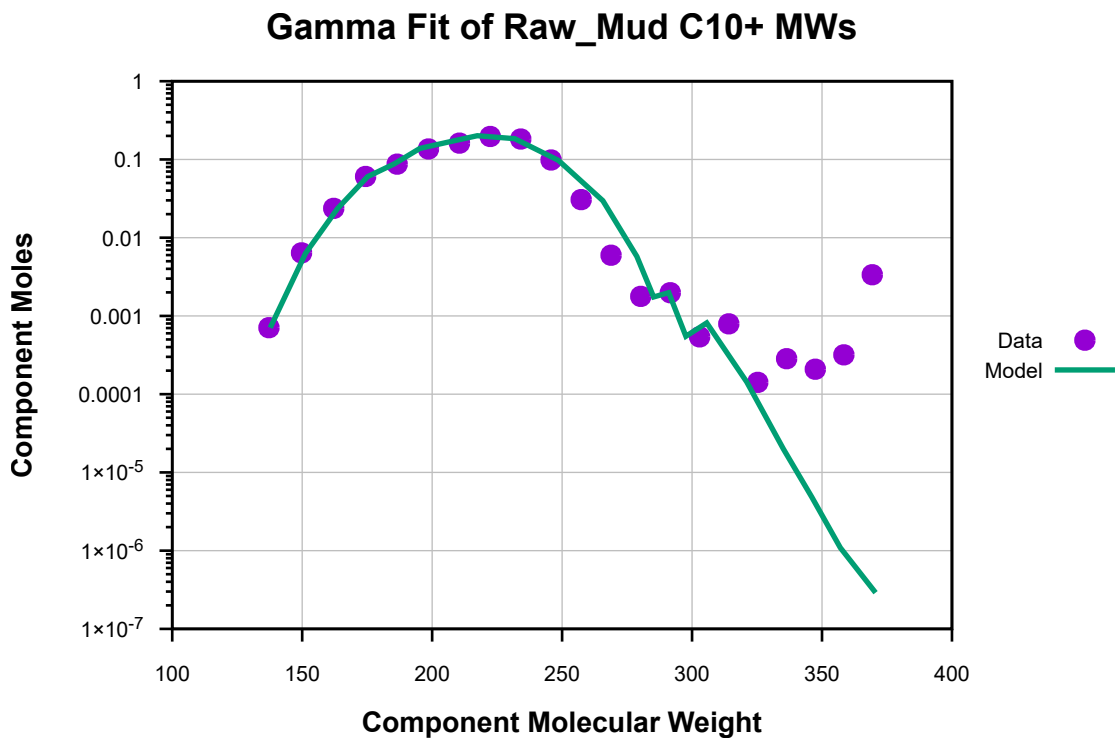


Figure 2: Molar Gamma Fit of Raw\_Mud C10+ MWs. Gamma Shape = 71.496, Average = 213.20, Bound = 128.00, Origin = 0.00.

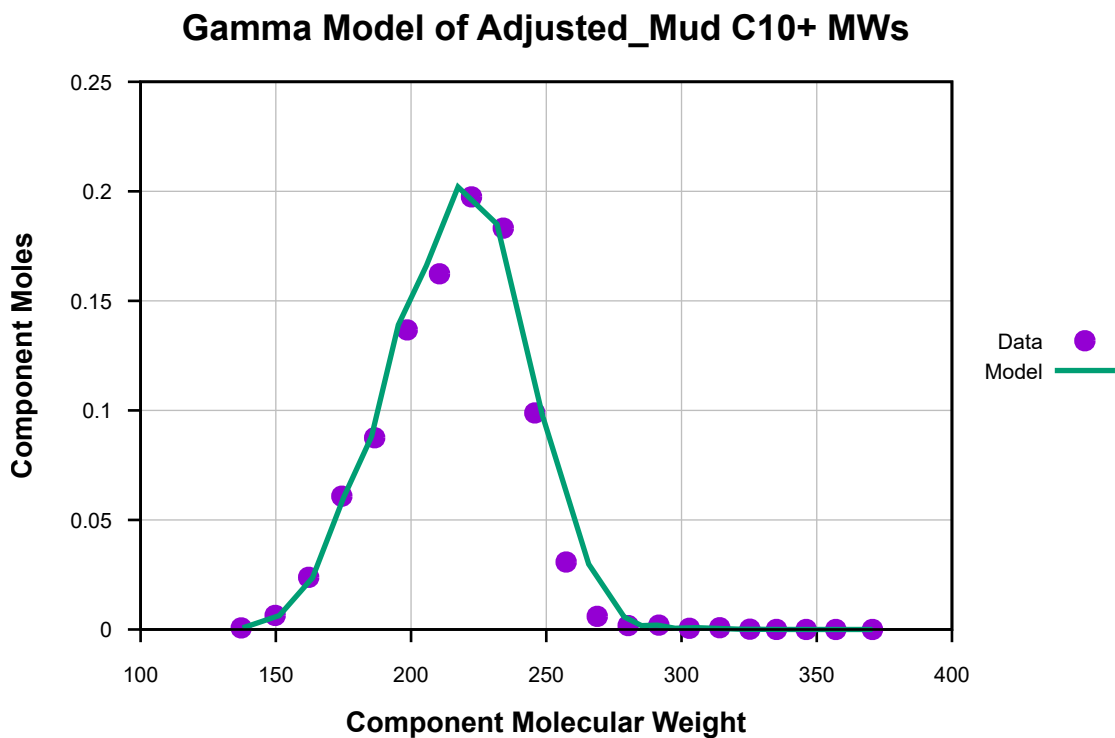


Figure 3: Molar Gamma Model of Adjusted\_Mud C10+ MWs. Gamma Shape = 71.496, Average = 213.20, Bound = 128.00, Origin = 0.00.

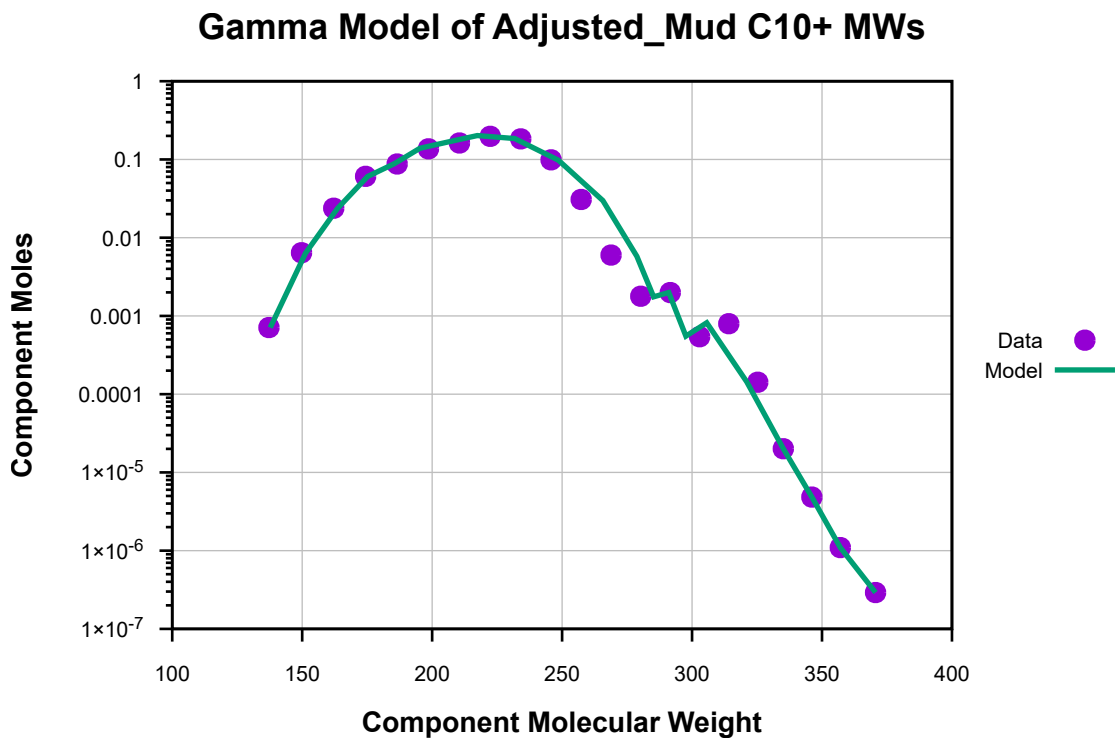


Figure 4: Molar Gamma Model of Adjusted\_Mud C10+ MWs. Gamma Shape = 71.496, Average = 213.20, Bound = 128.00, Origin = 0.00.

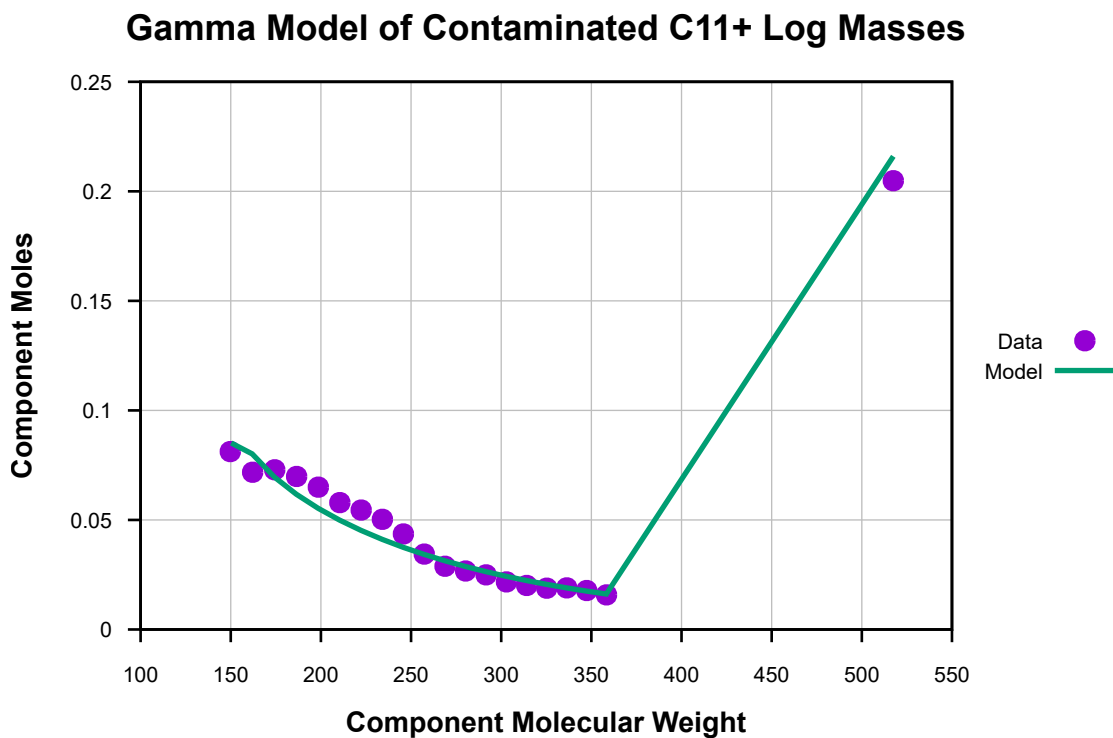


Figure 5: Molar Gamma Model of Contaminated C11+ Log Masses. Gamma Shape = 0.90522, Average = 288.94, Bound = 145.30, Origin = 145.30.

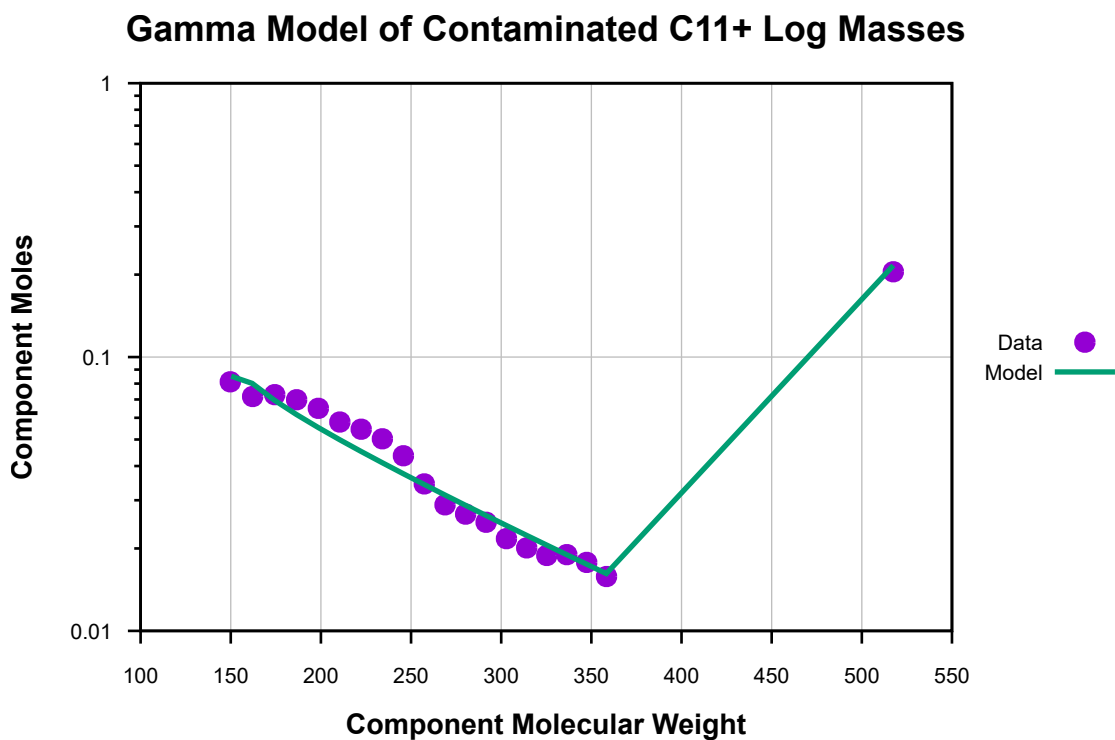


Figure 6: Molar Gamma Model of Contaminated C11+ Log Masses. Gamma Shape = 0.90522, Average = 288.94, Bound = 145.30, Origin = 145.30.

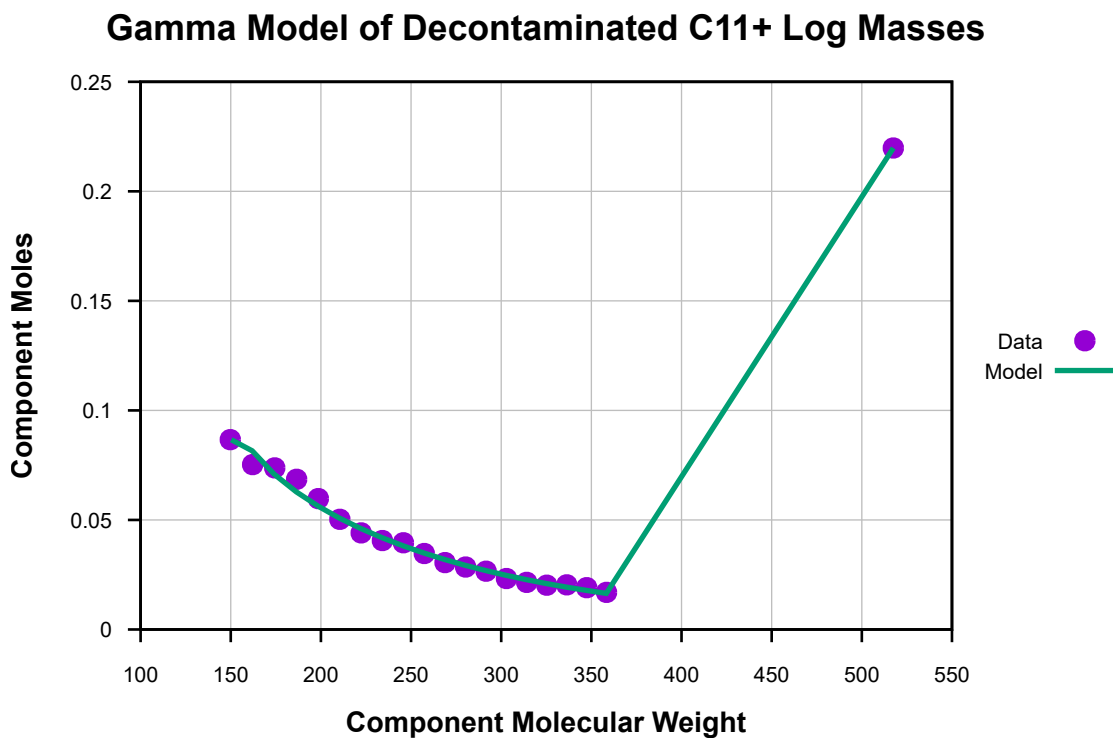


Figure 7: Molar Gamma Model of Decontaminated C11+ Log Masses. Gamma Shape = 0.90522, Average = 288.94, Bound = 145.30, Origin = 145.30.

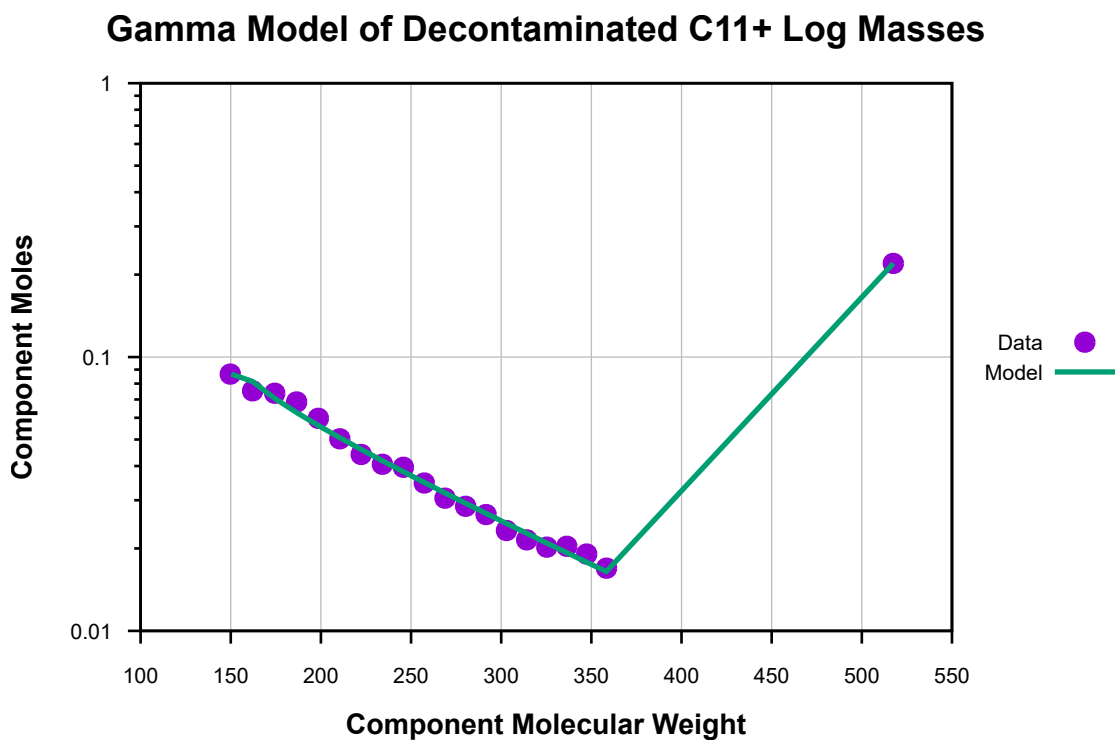


Figure 8: Molar Gamma Model of Decontaminated C11+ Log Masses. Gamma Shape = 0.90522, Average = 288.94, Bound = 145.30, Origin = 145.30.