

PhazeComp-Generated L^AT_EX Report Template

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1. Executive Summary

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Nomenclature

References

Tables

Table 1: Component Properties for Characterization “SCN for MWs and SGs”

Component	LMW	MW	SG
N2		28.014	0.28339
CO2		44.010	0.76193
C1		16.043	0.14609
C2		30.070	0.32976
C3		44.097	0.50977
I-C4		58.123	0.57043
N-C4		58.123	0.59055
I-C5		72.150	0.62952
N-C5		72.150	0.63585
C6	77.714	84.751	0.69921
C7	91.551	98.595	0.72940
C8	105.403	112.460	0.75398
C9	119.362	126.496	0.77457
C10	133.445	140.601	0.79195
C11	147.592	154.767	0.80682
C12	161.797	168.989	0.81967
C13	176.052	183.259	0.83088
C14	190.351	197.571	0.84075
C15	204.687	211.919	0.84950
C16	219.058	226.301	0.85730
C17	233.458	240.711	0.86430
C18	247.886	255.149	0.87063
C19	262.339	269.611	0.87636
C20	276.815	284.096	0.88158
C21	291.313	298.601	0.88635
C22	305.830	313.126	0.89074
C23	320.366	327.669	0.89477
C24	334.920	342.230	0.89850
C25	349.491	356.807	0.90196
C26	364.077	371.400	0.90517
C27	378.678	386.007	0.90817
C28	393.293	400.628	0.91096
C29	407.922	415.262	0.91358
C30+	422.563	602.891	0.93649

Table 2: Mixture “Lab3.Reported_Mud” Compositions

Component	Mole Fractions	Mass Fractions
C10	0.000745	0.000450
C11	0.006677	0.004435
C12	0.024545	0.017801
C13	0.062217	0.048932
C14	0.088766	0.075265
C15	0.137659	0.125199
C16	0.162262	0.157589
C17	0.195969	0.202445
C18	0.180583	0.197740
C19	0.096804	0.112010
C20	0.029970	0.036541
C21	0.005801	0.007433
C22	0.001717	0.002307
C23	0.001901	0.002674
C24	0.000516	0.000757
C25	0.000753	0.001153
C26	0.000134	0.000213
C27	0.000267	0.000442
C28	0.000195	0.000335
C29	0.000296	0.000528
C30+	0.002222	0.005749
MW		233.01

Table 3: Mixture “Lab3_MDT1_Contaminated” Compositions

Component	Mole Fractions	Mass Fractions
N2	0.001755	0.000480
CO2	0.012850	0.005520
C1	0.443321	0.069419
C2	0.054820	0.016090
C3	0.054017	0.023250
I-C4	0.009289	0.005270
N-C4	0.027621	0.015670
I-C5	0.011246	0.007920
N-C5	0.016188	0.011400
C6	0.023742	0.019640
C7	0.033044	0.031800
C8	0.034454	0.037820
C9	0.027375	0.033800
C10	0.024272	0.033310
C11	0.019409	0.029320
C12	0.017012	0.028060
C13	0.017141	0.030660
C14	0.016298	0.031430
C15	0.015050	0.031130
C16	0.013319	0.029420
C17	0.012454	0.029260
C18	0.011412	0.028420
C19	0.009827	0.025860
C20	0.007703	0.021360
C21	0.006420	0.018710
C22	0.005903	0.018040
C23	0.005481	0.017530
C24	0.004748	0.015860
C25	0.004370	0.015220
C26	0.004080	0.014790
C27	0.004087	0.015400
C28	0.003810	0.014900
C29	0.003368	0.013650
C30+	0.044115	0.259597
MW		102.45

Table 4: Mixture “Lab3_MDT1_Decontaminated” Compositions

Component	Mole Fractions	Mass Fractions
N2	0.001783	0.000497
CO2	0.013049	0.005718
C1	0.450175	0.071909
C2	0.055668	0.016667
C3	0.054852	0.024084
I-C4	0.009433	0.005459
N-C4	0.028048	0.016232
I-C5	0.011420	0.008204
N-C5	0.016438	0.011809
C6	0.024109	0.020344
C7	0.033555	0.032940
C8	0.034987	0.039176
C9	0.027798	0.035012
C10	0.024636	0.034488
C11	0.019606	0.030212
C12	0.016895	0.028428
C13	0.016444	0.030004
C14	0.015178	0.029857
C15	0.013154	0.027755
C16	0.011016	0.024822
C17	0.009616	0.023047
C18	0.008796	0.022346
C19	0.008482	0.022769
C20	0.007359	0.020815
C21	0.006429	0.019114
C22	0.005967	0.018604
C23	0.005536	0.018063
C24	0.004813	0.016402
C25	0.004426	0.015724
C26	0.004141	0.015313
C27	0.004146	0.015936
C28	0.003866	0.015422
C29	0.003415	0.014121
C30+	0.044763	0.268703
MW		100.43

Table 5: Mixture “Lab3_MDT2_Contaminated” Compositions

Component	Mole Fractions	Mass Fractions
N2	0.002125	0.000600
CO2	0.011044	0.004899
C1	0.449515	0.072685
C2	0.057070	0.017297
C3	0.055563	0.024695
I-C4	0.009728	0.005699
N-C4	0.027307	0.015997
I-C5	0.011136	0.008098
N-C5	0.015948	0.011598
C6	0.023760	0.020296
C7	0.032799	0.032593
C8	0.035812	0.040592
C9	0.027446	0.034993
C10	0.024693	0.034993
C11	0.019741	0.030794
C12	0.017316	0.029494
C13	0.016726	0.030894
C14	0.014862	0.029594
C15	0.013996	0.029894
C16	0.011791	0.026895
C17	0.010344	0.025095
C18	0.009953	0.025595
C19	0.009235	0.025095
C20	0.007577	0.021696
C21	0.006843	0.020596
C22	0.006019	0.018996
C23	0.005631	0.018596
C24	0.005072	0.017497
C25	0.004671	0.016797
C26	0.004354	0.016297
C27	0.004446	0.017297
C28	0.003665	0.014797
C29	0.003798	0.015897
C30+	0.040015	0.243151
MW		99.22

Table 6: Mixture “Lab3_MDT2_Decontaminated” Compositions

Component	Mole Fractions	Mass Fractions
N2	0.002133	0.000606
CO2	0.011088	0.004945
C1	0.451304	0.073368
C2	0.057297	0.017459
C3	0.055784	0.024927
I-C4	0.009767	0.005752
N-C4	0.027415	0.016147
I-C5	0.011181	0.008174
N-C5	0.016012	0.011707
C6	0.023855	0.020487
C7	0.032930	0.032900
C8	0.035954	0.040973
C9	0.027556	0.035322
C10	0.024788	0.035318
C11	0.019793	0.031041
C12	0.017288	0.029604
C13	0.016545	0.030724
C14	0.014568	0.029165
C15	0.013504	0.028999
C16	0.011193	0.025667
C17	0.009605	0.023429
C18	0.009274	0.023978
C19	0.008886	0.024278
C20	0.007488	0.021556
C21	0.006848	0.020720
C22	0.006036	0.019153
C23	0.005646	0.018746
C24	0.005091	0.017654
C25	0.004686	0.016944
C26	0.004370	0.016448
C27	0.004462	0.017455
C28	0.003678	0.014933
C29	0.003812	0.016041
C30+	0.040165	0.245382
MW		98.68

Table 7: Mixture “Lab3_MDT3_Contaminated” Compositions

Component	Mole Fractions	Mass Fractions
N2	0.001778	0.000500
CO2	0.011315	0.005002
C1	0.454433	0.073222
C2	0.056638	0.017105
C3	0.055109	0.024407
I-C4	0.009253	0.005402
N-C4	0.026731	0.015605
I-C5	0.010905	0.007902
N-C5	0.015737	0.011403
C6	0.023738	0.020206
C7	0.032729	0.032410
C8	0.035867	0.040512
C9	0.027242	0.034610
C10	0.024368	0.034410
C11	0.019370	0.030109
C12	0.016915	0.028709
C13	0.016304	0.030009
C14	0.014518	0.028809
C15	0.013582	0.028909
C16	0.011487	0.026108
C17	0.010054	0.024307
C18	0.009642	0.024707
C19	0.008977	0.024307
C20	0.007362	0.021006
C21	0.006638	0.019906
C22	0.005853	0.018406
C23	0.005471	0.018005
C24	0.004947	0.017005
C25	0.004634	0.016605
C26	0.004130	0.015405
C27	0.004154	0.016105
C28	0.003754	0.015105
C29	0.003694	0.015405
C30+	0.042671	0.258378
MW		99.57

Table 8: Mixture “Lab3_MDT3_Decontaminated” Compositions

Component	Mole Fractions	Mass Fractions
N2	0.001785	0.000505
CO2	0.011360	0.005048
C1	0.456224	0.073901
C2	0.056861	0.017264
C3	0.055327	0.024634
I-C4	0.009290	0.005452
N-C4	0.026837	0.015749
I-C5	0.010948	0.007976
N-C5	0.015799	0.011509
C6	0.023832	0.020393
C7	0.032858	0.032710
C8	0.036009	0.040888
C9	0.027350	0.034931
C10	0.024461	0.034725
C11	0.019420	0.030347
C12	0.016885	0.028810
C13	0.016123	0.029833
C14	0.014226	0.028378
C15	0.013093	0.028016
C16	0.010892	0.024888
C17	0.009321	0.022655
C18	0.008968	0.023103
C19	0.008630	0.023494
C20	0.007273	0.020862
C21	0.006641	0.020022
C22	0.005869	0.018555
C23	0.005485	0.018148
C24	0.004965	0.017156
C25	0.004649	0.016748
C26	0.004146	0.015546
C27	0.004169	0.016250
C28	0.003768	0.015242
C29	0.003707	0.015543
C30+	0.042830	0.260721
MW		99.04

Figures

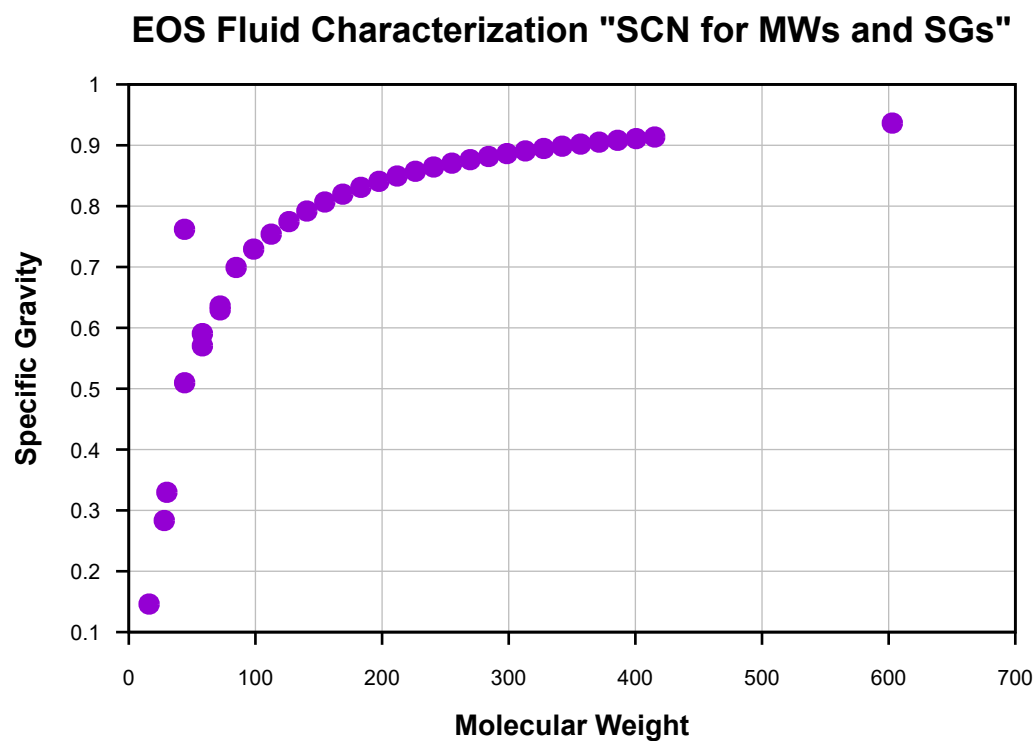


Figure 1: Specific Gravity vs. Molecular Weight for EOS Fluid Characterization "SCN for MWs and SGs."

Gamma Model of Lab3_MDT1_Contaminated C8+ Log Masses

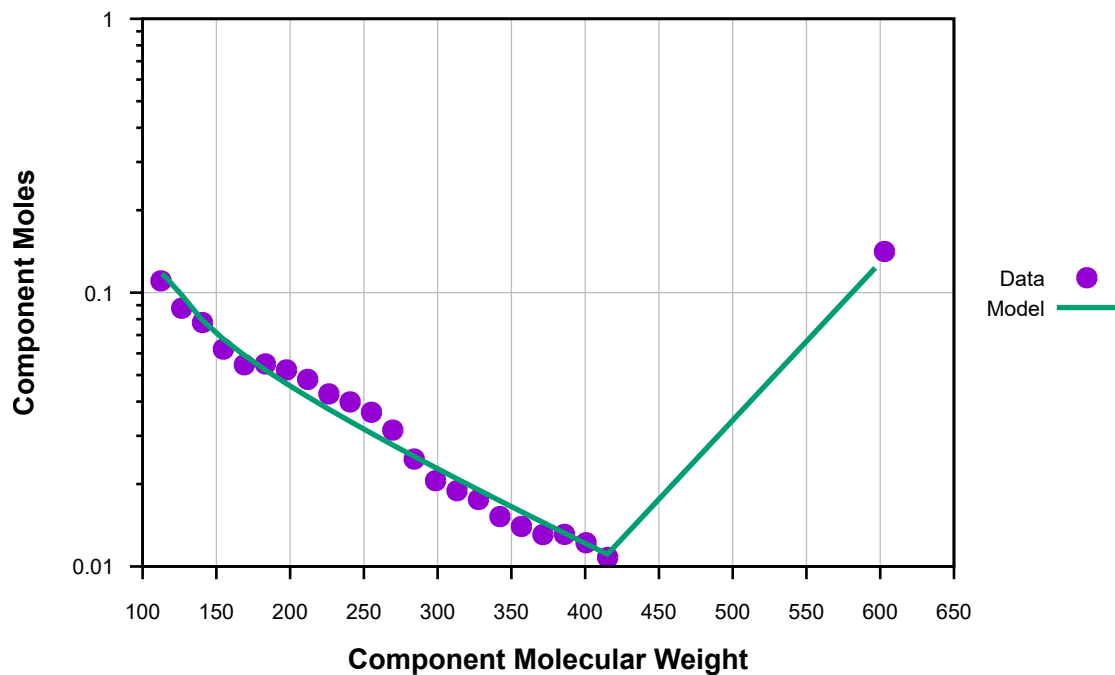


Figure 2: Molar Gamma Model of Lab3_MDT1_Contaminated C8+ Log Masses. Gamma Shape = 0.76467, Average = 251.59, Bound = 108.63, Origin = 108.63.

Gamma Model of Lab3_MDT1_Decontaminated C8+ Log Masses

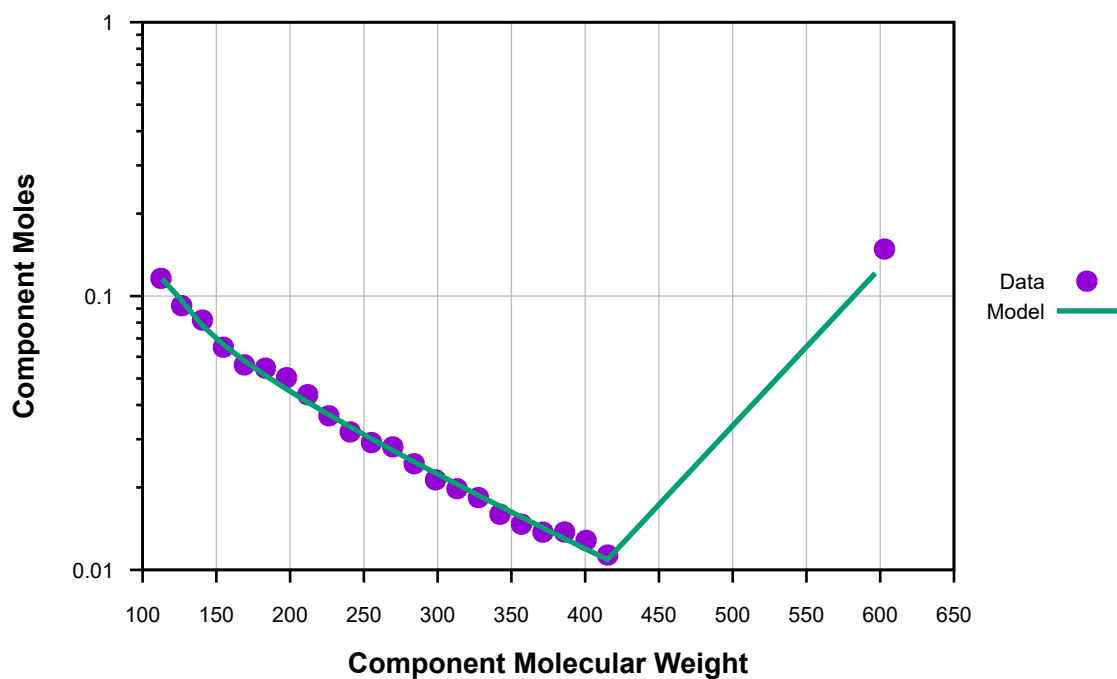


Figure 3: Molar Gamma Model of Lab3_MDT1_Decontaminated C8+ Log Masses. Gamma Shape = 0.76467, Average = 251.59, Bound = 108.63, Origin = 108.63.

Gamma Model of Lab3_MDT2_Contaminated C8+ Log Masses

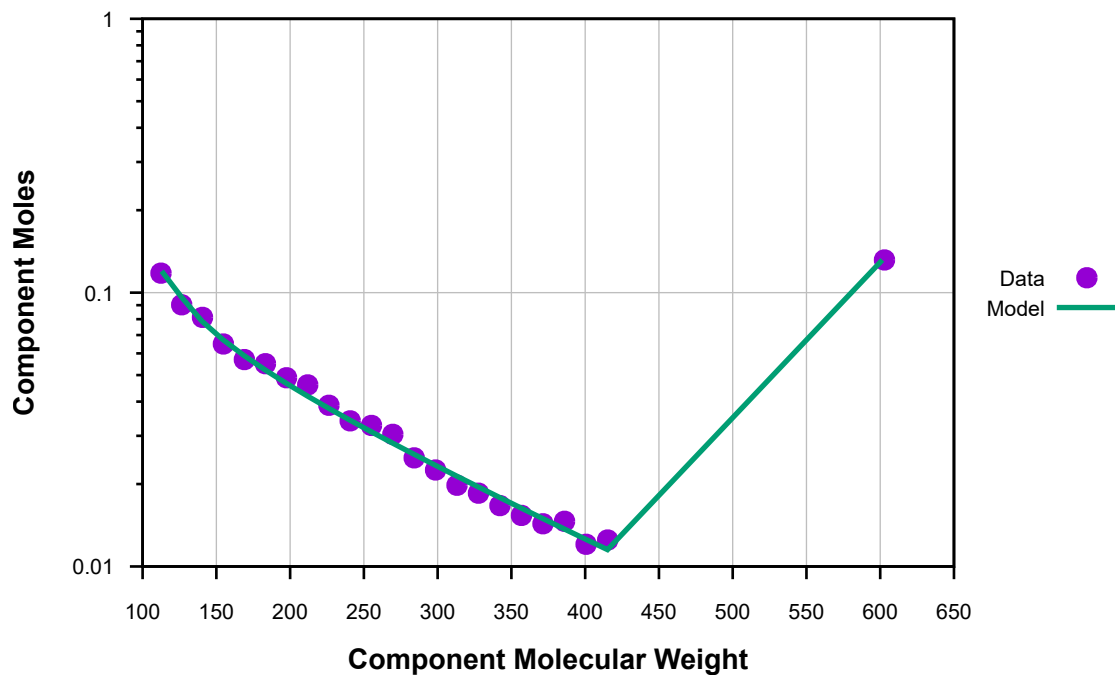


Figure 4: Molar Gamma Model of Lab3_MDT2_Contaminated C8+ Log Masses. Gamma Shape = 0.76763, Average = 255.67, Bound = 108.11, Origin = 108.11.

Gamma Model of Lab3_MDT2_Decontaminated C8+ Log Masses

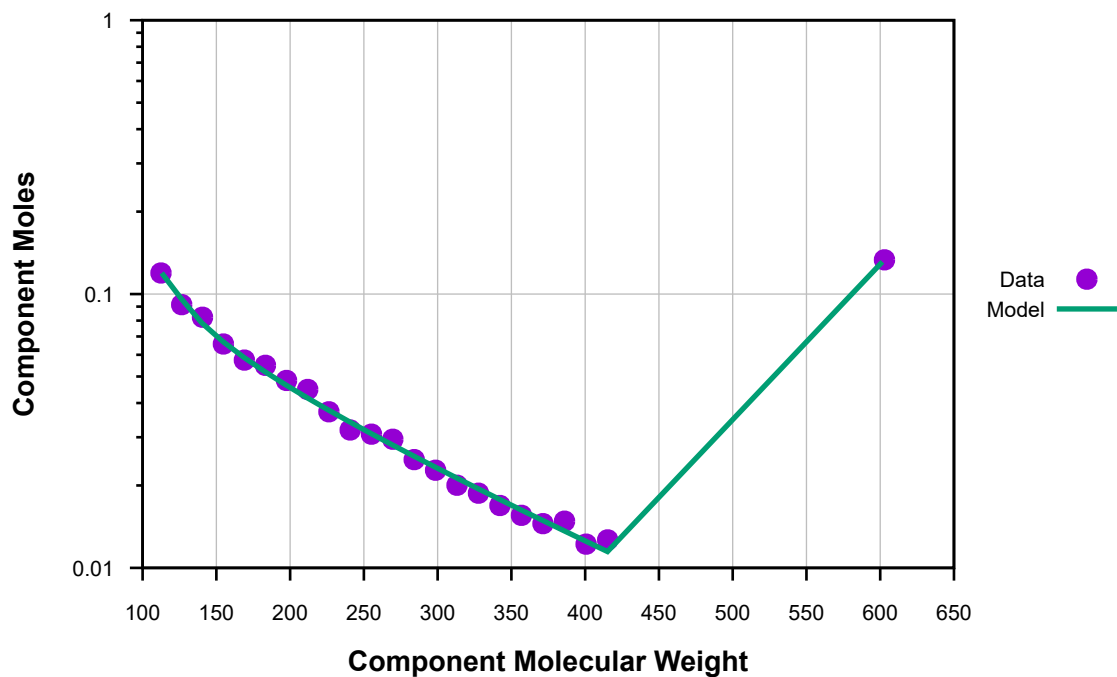


Figure 5: Molar Gamma Model of Lab3_MDT2_Decontaminated C8+ Log Masses. Gamma Shape = 0.76763, Average = 255.67, Bound = 108.11, Origin = 108.11.

Gamma Model of Lab3_MDT3_Contaminated C8+ Log Masses

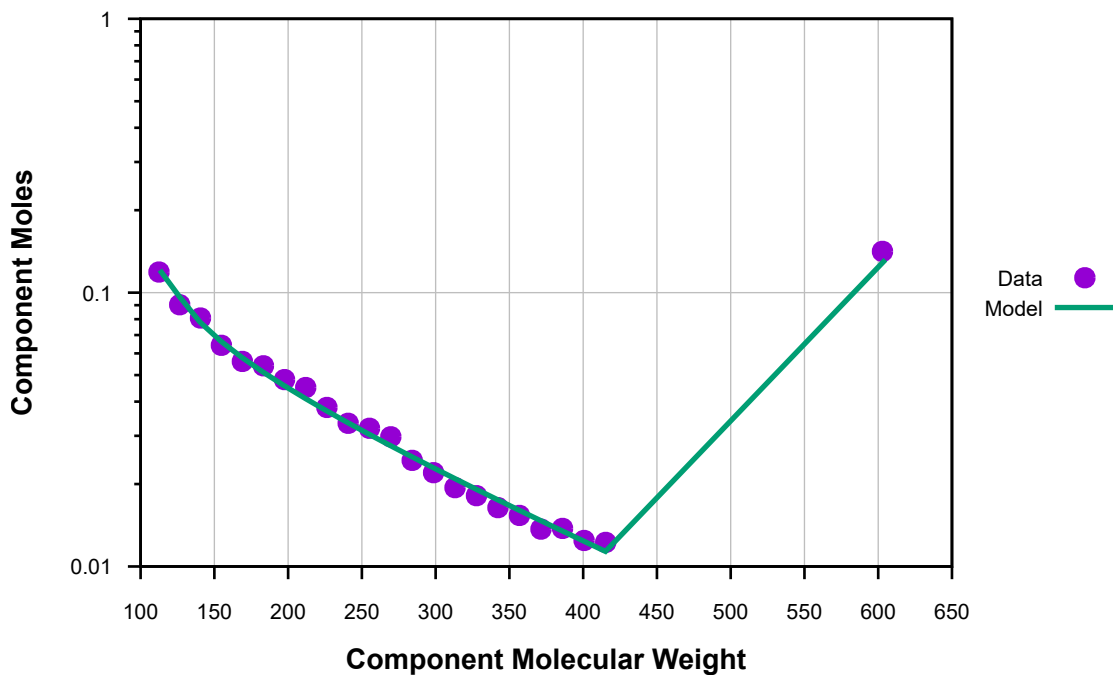


Figure 6: Molar Gamma Model of Lab3_MDT3_Contaminated C8+ Log Masses. Gamma Shape = 0.7494, Average = 256.21, Bound = 108.41, Origin = 108.41.

Gamma Model of Lab3_MDT3_Decontaminated C8+ Log Masses

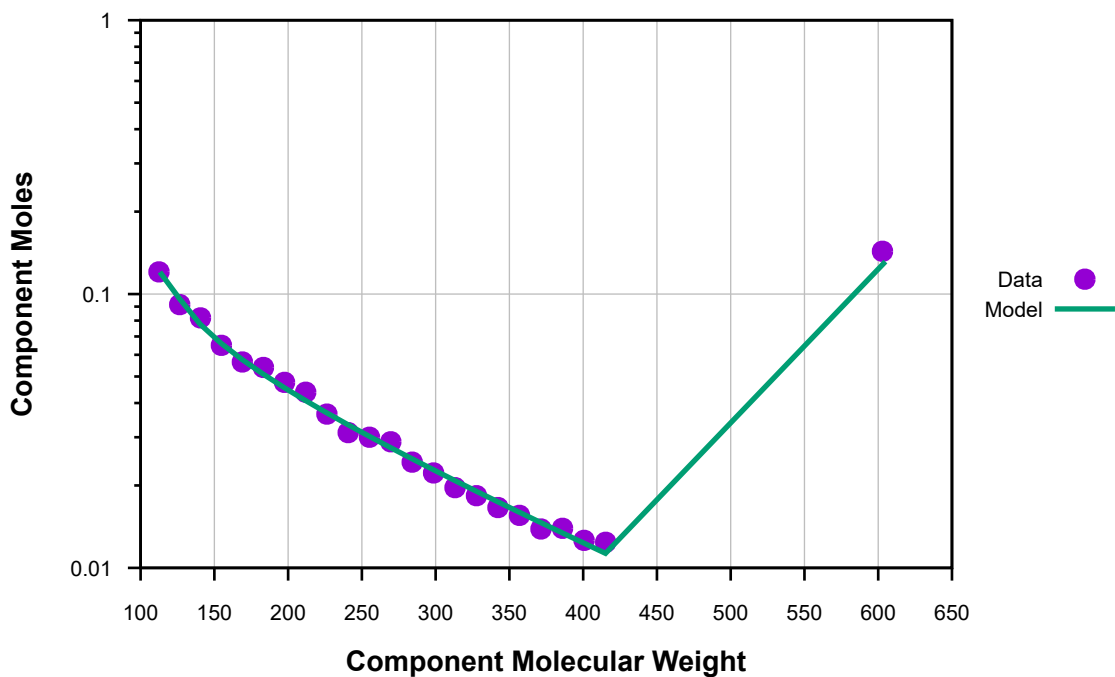


Figure 7: Molar Gamma Model of Lab3_MDT3_Decontaminated C8+ Log Masses. Gamma Shape = 0.7494, Average = 256.21, Bound = 108.41, Origin = 108.41.