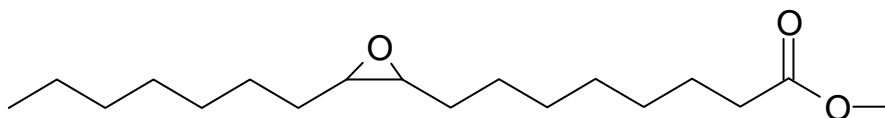


Technical data sheet

Synthesized: 17/11/09

L09-0191 : Epoxidized Oleic Methyl Ester (EOME)

OLEIC SUNFLOWER METHYLESTERS DERIVATE



CHARACTERISTICS

UNITS

VALUES

METHODS

Acidity value	mgKOH/g	0.84 (+/- 0,09)	ISO 660:1996
Oxirane value	% O ₂	4.83 (+/- 0,08)	AOCS Cd 9-57
Water content	%	0.28	
Purity (GC)	%	82.4	

PHYSICAL PROPERTIES :

Appearance at 20°C	colorless oily liquid
Behavior in water at 20°C	insoluble
Soluble at 25°C in	most organic solvents

DELIVERED QUANTITY :

20g

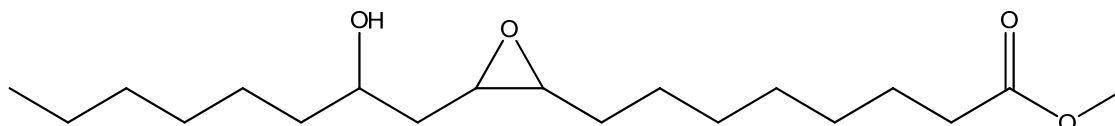
MAIN APPLICATIONS :

Analysis in supercritical CO₂

Technical data sheet

Synthesized: 21/01/2010

L10-0009: Epoxidized Ricinoleic Methyl Ester (ERME)



CHARACTERISTICS

Water content

UNITS

%

VALUES

0.42

Acidity value

mgKOH/g

1.19

Oxirane value

%

3.57

Purity GC

%

62.4

PHYSICAL PROPERTIES

Orange colored oily liquid

DELIVERED QUANTITY :

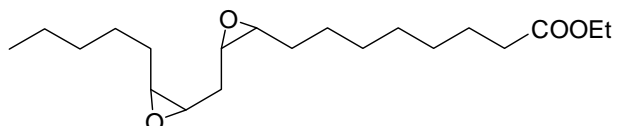
20g

MAIN APPLICATIONS

Analysis in supercritical CO₂

Technical data sheet

L090163: Epoxidized Linoleic Ethyl Ester (ELEE)



CHARACTERISTICS

	L09-0163	
Product	ELEE (white cream)	
Acidity value (mgKOH/g)	0,98	
Iodine Index(g I ₂ /100g)	4	
Oxirane value (%)	6,05	
GC Analysis	Product	%
	diepoxide	57
	monoepoxide	15
	Non epoxidized Ester	15,8
	Non determined	12,2

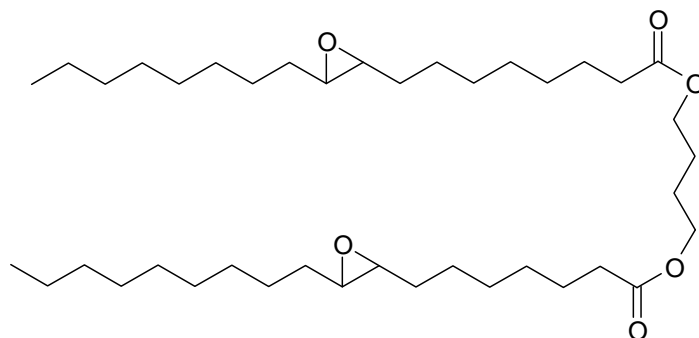
DELIVERED QUANTITY :

20g

MAIN APPLICATIONS : Analysis in supercritical CO₂

Technical data sheet

L090180: Epoxidized Oleic Butyl diEster (EOBudE)



CHARACTERISTICS

	L09-0180	
Product	EOBudE (white cream)	
Acidity value (mgKOH/g)	9,26	
Iodine Index (g I ₂ /100g)	4	
Oxirane value (%)	4,16	
Analyse GC	Product	%
	diepoxide	64,2
	monoepoxide	16,3
	Non epoxidized Ester	14,3
	Non determined	5,2

DELIVERED QUANTITY :

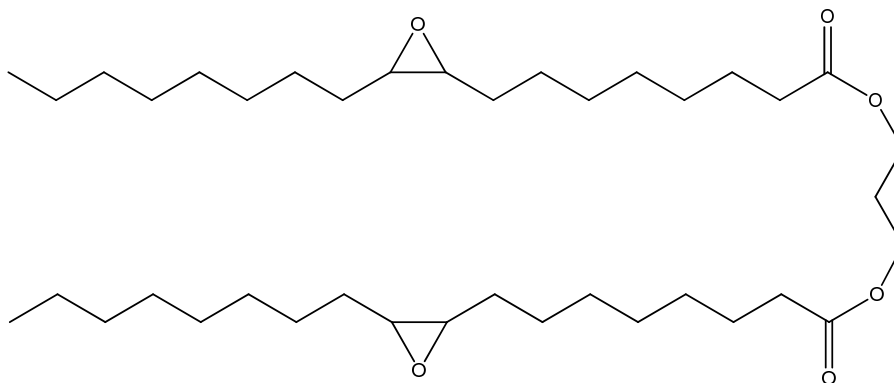
20g

MAIN APPLICATIONS : Analysis in supercritical CO₂

Technical data sheet

Synthesized: 18/05/11

ML139: Epoxidized Oleic Propyl diEster (EOPrdE)



CHARACTERISTICS

Acidity value
Oxirane value
Water content
Purity (GC)

UNITS

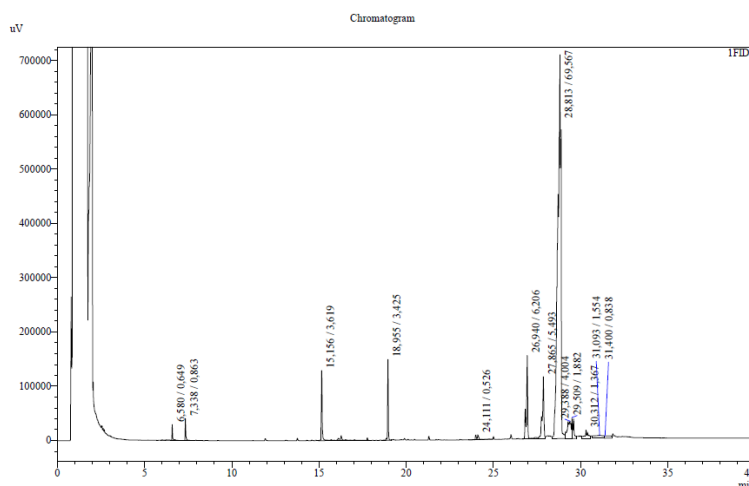
mgKOH/g
% O₂
%
%

VALUES

nd
nd
nd
69.5

METHODS

ISO 660:1996
AOCS Cd 9-57



PHYSICAL PROPERTIES :

Appearance at 20°C

white cream

Behavior in water at 20°C

nd

Soluble at 25°C in

most organic solvents

DELIVERED QUANTITY :

15g

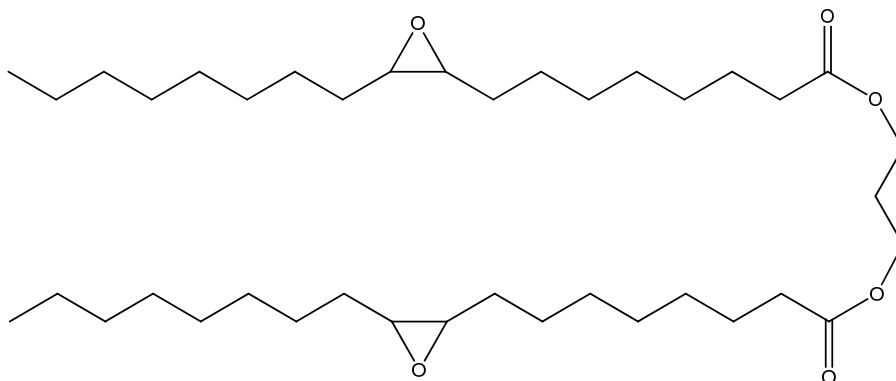
MAIN APPLICATIONS :

Analysis in supercritical CO₂

Technical data sheet

Synthesized: 18/05/11

ML139 : Epoxidized Oleic Propyl diEster(EOPrdE)



CHARACTERISTICS

Acidity value
Oxirane value
Water content
Purity (GC)

UNITS

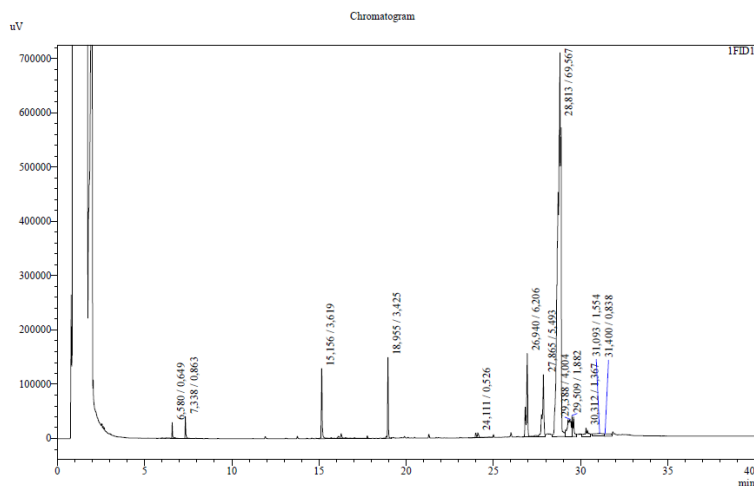
mgKOH/g
% O₂
%
%

VALUES

nd
nd
nd
69.5

METHODS

ISO 660:1996
AOCS Cd 9-57



PHYSICAL PROPERTIES :

Appearance at 20°C

white cream

Behavior in water at 20°C

nd

Soluble at 25°C in

most organic solvents

DELIVERED QUANTITY :

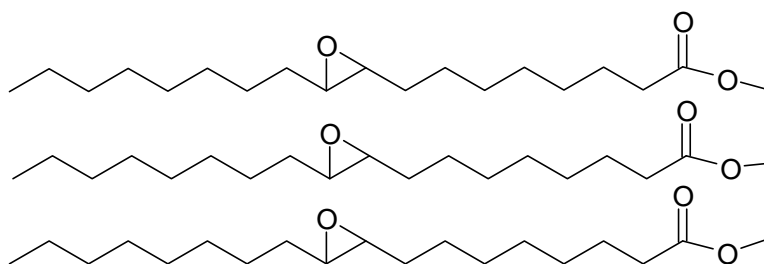
15g

MAIN APPLICATIONS :

Analysis in supercritical CO₂

Technical data sheet

L090182: Epoxidized Very High Oleic Sunflower Oil (EVHOSO)



CHARACTERISTICS

	L09-0182
Product	EVHOSO (White solid)
Iodine Index (g I ₂ /100g)	90
Acidity value (mgKOH/g)	1,25
Oxirane value (%)	4,88

DELIVERED QUANTITY :

20g

MAIN APPLICATIONS : Analysis in supercritical CO₂

Supporting Information for :

Solubility in CO₂ and Swelling studies by in situ IR spectroscopy of Vegetable-Based Epoxidized Oils as Polyurethane precursors

Tables of values for each VBEO in the VBEO-rich phase and in the CO₂-rich phase

Comment:

ρ (**g.cm⁻³**) represents the CO₂ density calculated from NIST thermodynamics data for pure CO₂;

[CO₂] (**mol.L⁻¹**) represents the CO₂ concentration calculated from the experimental FTIR spectra in the considered phase;

[VBEO] (**mol.L⁻¹**) represents the VBEO concentration calculated from the experimental FTIR spectra in the considered phase;

XCO₂ represents the molar fraction of CO₂ calculated from the CO₂ and VBEO molar concentrations.

1°) EOME

EOME-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[EOME] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48503	102.84	7.87	1.42	0.85
100	18	0.42481	93.25	6.99	1.49	0.82
100	16	0.36369	65.32	5.92	1.74	0.77
100	14	0.3013	53.77	5.22	1.87	0.74
100	12	0.24207	38.84	4.43	2.07	0.68
100	10	0.18856	27.11	3.46	2.26	0.60
100	8	0.14127	18.68	2.78	2.42	0.53
100	6	0.099632	15.79	2.36	2.48	0.49
100	4	0.062749	10.00	1.57	2.62	0.37
100	2	0.029774	4.38	0.99	2.76	0.26
100	0.1	0.0014218	0.00	0.00	2.88	
70	20	0.65905	137.80	9.93	1.28	0.89
70	18	0.61224	135.94	9.44	1.29	0.88
70	16	0.54775	127.07	9.31	1.34	0.87
70	14	0.45662	106.85	8.45	1.47	0.85
70	12	0.34585	78.70	7.35	1.70	0.81
70	10	0.24777	52.53	5.85	1.99	0.75
70	9	0.20804	47.32	5.38	2.06	0.72
70	8	0.17362	39.82	5.02	2.17	0.70
70	6	0.11681	27.43	3.79	2.38	0.61
70	5	0.092865	19.84	3.11	2.54	0.55
70	4	0.07116	15.27	2.48	2.64	0.49
70	2	0.032973	3.78	1.23	2.93	0.30
70	0.1	0.0015473	0.00	0.00	3.04	
40	20	0.83981	154.84	12.49	1.25	0.91
40	15	0.78023	150.80	12.07	1.27	0.90
40	12.8	0.73847	152.81	12.00	1.26	0.91
40	10	0.62861	152.81	12.01	1.26	0.91
40	9	0.4855	110.67	10.43	1.51	0.87
40	8	0.2779	75.56	9.06	1.81	0.83
40	7	0.19802	49.06	7.13	2.13	0.77
40	6	0.14926	43.64	6.33	2.21	0.74
40	5.5	0.1337	37.39	5.61	2.31	0.71
40	4	0.083758	23.44	3.96	2.58	0.61
40	2	0.037127	5.34	2.02	3.02	0.40
40	0.1	0.0016975	0.00	0.00	3.18	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[EOME] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	10.6687	0.0217	0.9980
100	18	0.42481	9.2247	0.0217	0.9976
100	15	0.33235	6.8180	0.0039	0.9994
100	12	0.24207	4.9783	0.0011	0.9998
100	10	0.18856	3.5277	0.0003	0.9999
100	8	0.14127	2.6441	0.0001	1.0000
100	5	0.080651	1.3781	0.0000	1.0000
100	2	0.029774	0.5407	0.0000	1.0000
100	0.1	0.0014218	0.0000	0.0000	
70	20	0.65905	17.1010	0.0148	0.9991
70	15	0.50588	12.0635	0.0035	0.9997
70	12	0.34585	7.4994	0.0022	0.9997
70	10	0.24777	4.5072	0.0003	0.9999
70	8	0.17362	3.1816	0.0001	1.0000
70	5	0.032963	1.7234	0.0000	1.0000
70	2	0.032963	0.5492	0.0000	1.0000
70	0.1	0.0015473	0.0000	0.0000	
40	20	0.83981	17.0675	0.3345	0.9808
40	18	0.83009	16.9403	0.3366	0.9805
40	15.5	0.78023	16.0784	0.3267	0.9801
40	14	0.76327	15.7535	0.3236	0.9799
40	12	0.71776	16.0926	0.0123	0.9992
40	11	0.68352	15.0612	0.0062	0.9996
40	10	0.62861	13.8602	0.0060	0.9996
40	8	0.2779	6.0311	0.0005	0.9999
40	0.1	0.0016975	0.0000	0.0000	

2°) ERME

ERMEE-rich phase

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[ERME] (mol.L ⁻¹)	X _{CO₂}
100	29	0.64915	66.84	7.92	1.66	0.83
100	20	0.48053	52.33	6.52	1.82	0.80
100	18	0.42481	42.42	5.70	1.94	0.78
100	16	0.36369	36.86	5.04	2.02	0.75
100	15	0.33235	32.71	4.64	2.09	0.74
100	14	0.3013	28.81	4.29	2.15	0.73
100	12	0.24207	24.24	3.60	2.23	0.68
100	10	0.18856	23.37	2.86	2.25	0.64
100	9.5	0.16416	18.37	2.41	2.34	0.60
100	8	0.14127	17.57	1.92	2.36	0.56
100	6	0.099632	10.87	1.32	2.50	0.48
100	5	0.080651	9.49	0.64	2.53	0.40
100	2	0.029774	6.82	0.07	2.59	0.03
100	0.1	0.0014218	0.00	0.00	2.77	
70	20	0.65905	102.13	9.75	1.61	0.86
70	18	0.61224	92.68	9.13	1.69	0.85
70	16	0.54775	84.08	8.69	1.77	0.84
70	15	0.50588	79.28	8.28	1.82	0.83
70	14	0.45662	71.81	7.86	1.90	0.80
70	12	0.34585	56.19	6.82	2.09	0.77
70	10	0.24777	53.86	5.78	2.12	0.73
70	9	0.20804	49.40	5.00	2.18	0.69
70	8	0.17362	44.17	4.68	2.26	0.67
70	7	0.1435	30.49	3.58	2.50	0.59
70	6	0.11681	33.88	2.94	2.44	0.55
70	4	0.07116	21.99	1.46	2.67	0.38
70	2	0.032963	13.28	0.21	2.88	0.19
70	0.1	0.0015473	0.00	0.00	3.26	
40	30	0.90989	190.55	16.65	1.09	0.94
40	20	0.83981	133.11	13.33	1.36	0.91
40	18	0.83009	115.57	12.56	1.47	0.90
40	16	0.7949	113.27	12.21	1.49	0.89
40	15	0.78023	108.83	11.63	1.52	0.88
40	14	0.76327	111.03	10.89	1.50	0.88
40	12	0.71776	89.13	10.17	1.68	0.86
40	10	0.62861	80.61	9.15	1.76	0.84
40	9	0.4855	79.00	8.39	1.77	0.83
40	8	0.2779	69.90	7.22	1.87	0.79
40	6	0.14926	35.46	4.30	2.34	0.65
40	5	0.11305	31.03	2.65	2.42	0.52
40	4	0.083758	29.34	1.59	2.45	0.39
40	2	0.037127	10.15	0.09	2.88	0.03
40	0.1	0.0016975	0.00	0.00	3.16	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[ERME] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	10.4916	0.0084	0.9992
100	18	0.42481	8.5031	0.0049	0.9994
100	15	0.33235	6.2306	0.0012	0.9998
100	12	0.24207	4.0906	0.0002	0.9999
100	10	0.18856	3.2195	0.0001	1.0000
100	8	0.14127	1.9885	0.0000	1.0000
100	5	0.080651	1.0605	0.0000	1.0000
100	2	0.029774	0.3788	0.0000	1.0000
100	0.1	0.0014218			
70	20	0.65905	16.6086	0.0175	0.9989
70	18	0.61224	14.4497	0.0081	0.9994
70	15	0.50588	11.3817	0.0046	0.9996
70	12	0.34585	7.1775	0.0005	0.9999
70	10	0.24777	4.7534	0.0002	1.0000
70	8	0.17362	3.0111	0.0001	1.0000
70	5	0.092865	1.3825	0.0000	1.0000
70	2	0.032963	0.6060	0.0000	1.0000
70	0.1	0.0015473			
40	30	0.90989	28.1039	0.0911	0.9967
40	20	0.83981	25.0928	0.0918	0.9964
40	18	0.83009	23.9755	0.0915	0.9962
40	15	0.78023	22.8013	0.0564	0.9975
40	12	0.71776	20.6424	0.0092	0.9996
40	10	0.62861	17.4229	0.0031	0.9997
40	8	0.2779	5.3973	0.0000	1.0000
40	6	0.14926	2.3104	0.0000	1.0000
40	2	0.037127	0.6439	0.0000	1.0000
40	0.1	0.0016975	0.0000	0.0000	

3°) ELEE

ELEEE-rich phase

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[ELEE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.65905	57.49	6.36	1.77	0.78
100	18	0.61224	59.77	6.23	1.74	0.78
100	16	0.54775	52.06	5.85	1.83	0.76
100	15	0.50588	49.99	5.64	1.85	0.75
100	14	0.45662	46.02	5.17	1.90	0.73
100	12	0.34585	43.17	4.98	1.94	0.72
100	11	0.24777	38.67	4.58	2.00	0.70
100	10	0.20804	33.63	4.09	2.08	0.66
100	9	0.17362	27.45	3.33	2.18	0.60
100	7	0.1435	21.14	2.63	2.29	0.53
100	6	0.11681	17.91	1.97	2.36	0.46
100	5	0.092865	14.83	1.50	2.42	0.38
100	4	0.07116	12.49	1.00	2.47	0.29
100	2	0.032963	8.61	0.25	2.56	0.09
100	1	0.015927	2.55	0.00	2.71	
100	0.1	0.0014218	0.00	0.00	2.77	
70	20	0.65905	88.02	9.26	1.46	0.86
70	18	0.61224	81.75	8.83	1.51	0.85
70	16	0.54775	84.83	8.65	1.49	0.85
70	15	0.50588	74.48	8.43	1.58	0.84
70	14	0.45662	70.39	7.50	1.61	0.82
70	12	0.34585	55.79	6.63	1.77	0.79
70	10	0.24777	52.52	6.31	1.80	0.78
70	9	0.20804	48.37	5.72	1.85	0.76
70	8	0.17362	38.92	5.32	1.98	0.73
70	7	0.1435	36.31	4.26	2.02	0.68
70	6	0.11681	24.63	3.12	2.21	0.59
70	5	0.092865	25.35	2.78	2.19	0.56
70	4	0.07116	17.26	1.72	2.35	0.42
70	2.5	0.032963	11.28	1.14	2.47	0.31
70	1.2	0.015927	4.86	0.00	2.62	
70	0.1	0.0015473	0.00	0.00	2.75	
40	20	0.83981	300.58	19.54	0.74	0.96
40	18	0.83009	329.72	19.28	0.69	0.97
40	15	0.78023	293.91	18.67	0.76	0.96
40	14	0.76327	263.61	17.99	0.82	0.96
40	12	0.71776	191.78	16.27	1.02	0.94
40	10	0.62861	151.43	14.51	1.19	0.92
40	9	0.4855	120.88	13.28	1.35	0.91
40	8	0.2779	100.29	12.16	1.49	0.89
40	6	0.14926	54.47	9.28	1.93	0.83
40	5	0.11305	36.62	7.04	2.18	0.76
40	4	0.083758	24.39	5.40	2.40	0.69
40	2	0.037127	9.42	2.18	2.72	0.44
40	1	0.017669	1.00	0.00	2.95	
40	0.1	0.0016975	0.00	0.00	2.98	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[ELEE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	9.6962	0.0150	0.9985
100	18	0.42481	8.5789	0.0080	0.9991
100	15	0.33235	6.3442	0.0020	0.9997
100	12	0.24207	3.8444	0.0004	0.9999
100	10	0.18856	2.9164	0.0001	1.0000
100	8	0.14127	2.0074	0.0000	1.0000
100	5	0.080651	1.0037	0.0000	1.0000
100	2	0.029774	0.3219	0.0000	1.0000
100	0.1	0.0014218	0.0000	0.0000	
70	20	0.65905	18.0479	0.0251	0.9986
70	18	0.61224	15.5102	0.0103	0.9993
70	15	0.50588	11.7605	0.0053	0.9995
70	12	0.34585	7.3669	0.0018	0.9998
70	10	0.24777	4.7156	0.0002	1.0000
70	8	0.17362	3.2005	0.0001	1.0000
70	2	0.032963	0.7575	0.0000	1.0000
70	0.1	0.0015473	0.0000	0.0000	
40	20	0.83981	18.5213	0.4788	0.9748
40	15	0.78023	23.1990	0.4605	0.9805
40	12	0.71776	20.6803	0.0207	0.9990
40	10	0.62861	16.8548	0.9998	0.9998
40	5	0.11305	2.1211	1.0000	1.0000
40	2	0.037127	0.7196	1.0000	1.0000
40	0.1	0.0016975	0.0000	0.0000	

4°) EOBudE

EOBudE-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[EOBudE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	38.81	5.78	0.95	0.86
100	18	0.42481	37.29	5.61	0.96	0.85
100	15	0.33235	31.54	5.25	1.00	0.84
100	12	0.24207	26.26	4.49	1.05	0.81
100	10	0.18856	15.78	3.62	1.14	0.76
100	8	0.14127	15.78	2.67	1.14	0.70
100	5	0.080651	6.01	1.31	1.25	0.51
100	2	0.029774	0.90	0.47	1.31	0.27
100	0.1	0.0014218	0.00	0.00	1.31	
70	20	0.65905	84.50	9.39	0.86	0.92
70	18	0.61224	79.01	8.67	0.88	0.91
70	15	0.50588	67.08	7.97	0.95	0.89
70	12	0.34585	53.44	6.65	1.03	0.87
70	10	0.24777	45.28	6.06	1.09	0.85
70	8	0.17362	34.26	4.15	1.18	0.78
70	5	0.092865	16.11	0.97	1.36	0.42
70	2	0.032963	8.96	0.15	1.45	0.09
70	0.1	0.0015473	0.00	0.00	1.58	
40	20	0.83981	58.26	10.89	0.94	0.92
40	18	0.83009	57.38	10.81	0.94	0.92
40	15	0.78023	56.50	10.68	0.95	0.92
40	12	0.71776	58.26	10.53	0.94	0.92
40	10	0.62861	59.15	10.62	0.93	0.92
40	8	0.2779	48.26	9.54	1.00	0.91
40	5	0.11305	24.10	5.97	1.19	0.83
40	2	0.037127	1.70	0.45	1.46	0.24
40	0.1	0.0016975	0.00	0.00	1.47	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[EOBudE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	12.4044	0.0029	0.9998
100	18	0.42481	9.4311	0.0012	0.9999
100	15	0.33235	6.1738	0.0003	1.0000
100	12	0.24207	4.3368	0.0001	1.0000
100	10	0.18856	3.1816	0.0001	1.0000
100	8	0.14127	2.1400	0.0000	1.0000
100	5	0.080651	1.3635	0.0000	1.0000
100	2	0.029774	0.5303	0.0000	0.9999
100	0.1	0.0014218	0.0000	0.0000	
70	20	0.65905	14.9231	0.0065	0.9996
70	18	0.61224	13.2376	0.0032	0.9998
70	15	0.50588	10.2454	0.0008	0.9999
70	12	0.34585	6.0980	0.0001	1.0000
70	10	0.24777	4.3368	0.0000	1.0000
70	8	0.17362	2.8975	0.0000	1.0000
70	5	0.092865	1.3635	0.0000	1.0000
70	2	0.032963	0.5681	0.0000	1.0000
70	0.1	0.0015473	0.0000	0.0000	
40	20	0.83981	27.5358	0.0139	0.9995
40	18	0.83009	25.8314	0.0106	0.9996
40	15	0.78023	24.5057	0.0075	0.9997
40	12	0.71776	21.5514	0.0051	0.9998
40	10	0.62861	18.2183	0.0039	0.9998
40	8	0.2779	6.5336	0.0001	1.0000
40	5	0.11305	2.0453	0.0000	1.0000
40	2	0.037127	0.8143	0.0000	1.0000
40	0.1	0.0016975	0.0000	0.0000	

5°) EUBudE

EUBudE-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[EUBudE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	50.00	5.51	1.34	0.80
100	18	0.42481	44.19	4.87	1.40	0.78
100	15	0.33235	37.12	4.22	1.47	0.74
100	12	0.24207	31.86	3.84	1.53	0.72
100	10	0.18856	28.82	3.33	1.56	0.68
100	8.5	0.14127	24.86	2.82	1.61	0.64
100	7	0.1198	16.10	2.20	1.73	0.56
100	5	0.080651	12.88	1.42	1.78	0.44
100	2	0.029774	7.71	0.68	1.87	0.27
100	0.1	0.0014218	0.00	0.00	2.01	
70	20	0.65905	77.78	7.94	1.18	0.87
70	18	0.61224	69.34	7.83	1.23	0.86
70	15	0.50588	55.70	7.07	1.34	0.84
70	12	0.34585	46.84	6.11	1.42	0.81
70	11	0.29373	39.76	5.78	1.50	0.79
70	10	0.24777	35.28	5.38	1.54	0.78
70	9	0.20804	29.61	4.81	1.61	0.75
70	7	0.1435	22.11	3.99	1.71	0.70
70	6	0.11681	18.07	3.48	1.77	0.66
70	5	0.092865	14.85	2.90	1.82	0.61
70	3	0.051295	7.16	1.87	1.95	0.49
70	2	0.032963	2.20	1.19	2.04	0.37
70	0.1	0.0015473	0.00	0.00	2.09	
40	20	0.83981	125.00	12.26	0.97	0.93
40	18	0.81951	112.23	11.47	1.03	0.92
40	15	0.78023	99.18	10.59	1.10	0.91
40	12	0.71776	84.79	10.22	1.18	0.90
40	10	0.62861	76.73	9.40	1.24	0.88
40	9	0.4855	69.93	9.22	1.29	0.88
40	8	0.2779	55.77	8.12	1.41	0.85
40	7	0.19802	47.27	0.33	1.49	0.84
40	6	0.14926	33.88	0.27	1.63	0.79
40	5	0.11305	26.23	0.23	1.73	0.75
40	4	0.083758	19.70	0.19	1.83	0.70
40	3	0.058892	14.89	0.14	1.91	0.63
40	2.2	0.037127	13.55	0.11	1.93	0.56
40	0.1	0.0016975	0.00	0.00	2.19	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[EUBudE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	7.4990	0.0016	0.9998
100	19.3	0.45352	7.0480	0.0011	0.9998
100	18.1	0.42481	6.3713	0.0007	0.9999
100	17.3	0.39471	5.8639	0.0005	0.9999
100	15	0.33235	4.5530	0.0002	1.0000
100	14	0.3013	4.0314	0.0001	1.0000
100	12.5	0.24207	3.1998	0.0001	1.0000
100	10	0.18856	2.2835	0.0001	1.0000
100	8	0.14127	1.6069	0.0000	1.0000
100	5	0.080651	0.7894	0.0000	1.0000
100	4	0.062749	0.6343	0.0000	1.0000
100	2	0.029774	0.2960	0.0000	0.9999
100	1	0.014525	0.1410	0.0000	0.9999
100	0.1	0.0014218	0.0000	0.0000	
70	20	0.65905	12.3198	0.0044	0.9996
70	18	0.61224	11.2062	0.0036	0.9997
70	17	0.58279	10.4733	0.0029	0.9997
70	16	0.54775	9.6980	0.0019	0.9998
70	15	0.50588	8.6831	0.0010	0.9999
70	14	0.45662	7.4426	0.0005	0.9999
70	13.1	0.40175	6.3009	0.0002	1.0000
70	12	0.34585	5.0745	0.0001	1.0000
70	10	0.24777	3.3548	0.0000	1.0000
70	8.6	0.20804	2.5091	0.0000	1.0000
70	6	0.11681	1.4942	0.0000	1.0000
70	2	0.032963	0.4934	0.0000	1.0000
70	0.1	0.0015473	0.0000	0.0000	
40	20	0.83981	19.4523	0.0180	0.9991
40	18	0.83009	18.9167	0.0149	0.9992
40	15	0.78023	17.2675	0.0079	0.9995
40	12	0.71776	15.1108	0.0040	0.9997
40	10	0.62861	12.7709	0.0033	0.9997
40	8	0.2779	4.2288	0.0000	1.0000
40	5.5	0.11305	1.8466	0.0000	1.0000
40	2	0.037127	0.5920	0.0000	1.0000
40	0.1	0.0016975	0.0000	0.0000	

6°) EOPrdE

EOPrdE-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[EOPrdE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	37.50	5.17	0.96	0.84
100	18	0.42481	33.64	4.69	0.98	0.83
100	15	0.33235	27.11	4.18	1.03	0.80
100	14	0.3013	24.89	4.04	1.05	0.79
100	12	0.24207	18.18	3.46	1.11	0.76
100	11.2	0.21453	16.26	3.23	1.13	0.74
100	10.6	0.18856	12.60	3.09	1.17	0.73
100	8	0.14127	8.75	2.39	1.21	0.66
100	6	0.099632	3.62	1.94	1.27	0.60
100	5	0.080651	2.88	1.64	1.28	0.56
100	3	0.045821	0.00	1.16	1.31	0.47
100	2	0.029774	0.00	0.82	1.35	0.38
100	0.1	0.0014218	0.00	0.00	1.41	
70	20	0.65905	62.56	6.22	0.93	0.87
70	18	0.61224	62.56	6.13	0.93	0.87
70	15	0.50588	64.18	6.05	0.92	0.87
70	14	0.45662	60.19	5.88	0.95	0.86
70	12	0.34585	52.78	5.62	0.99	0.85
70	10	0.24777	35.25	5.05	1.12	0.82
70	8.5	0.17362	24.53	3.51	1.22	0.74
70	5	0.092865	8.91	1.73	1.39	0.55
70	4	0.07116	9.27	1.32	1.39	0.49
70	3	0.051295	4.10	0.95	1.46	0.40
70	2	0.032963	0.92	0.63	1.50	0.30
70	0.1	0.0015473	0.00	0.00	1.52	
40	20	0.83981	85.71	9.50	0.84	0.92
40	18	0.81951	83.70	9.25	0.84	0.92
40	15	0.78023	73.33	8.88	0.90	0.91
40	12	0.71776	64.08	8.40	0.95	0.90
40	10	0.62861	57.21	7.51	0.99	0.88
40	9	0.4855	54.34	7.17	1.01	0.88
40	8	0.2779	45.06	6.72	1.07	0.86
40	7	0.19802	35.20	5.87	1.15	0.84
40	6	0.14926	25.65	4.83	1.24	0.80
40	3	0.058892	10.46	2.67	1.41	0.65
40	2	0.037127	8.68	1.98	1.43	0.58
40	0.1	0.0016975	0.00	0.00	1.55	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[EOPrdE] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	8.4563	0.0012	0.9999
100	18	0.42481	7.1035	0.0006	0.9999
100	15	0.33235	5.2636	0.0002	1.0000
100	12	0.24207	3.4533	0.0001	1.0000
100	10	0.18856	2.7056	0.0001	1.0000
100	8	0.14127	1.8201	0.0000	1.0000
100	5	0.080651	0.9839	0.0000	1.0000
100	2	0.029774	0.4329	0.0000	1.0000
100	0.1	0.0014218	0.0000	0.0000	
70	20	0.65905	12.5876	0.0053	0.9996
70	18	0.61224	11.2203	0.0035	0.9997
70	15	0.50588	8.7677	0.0009	0.9999
70	12	0.34585	5.0322	0.0002	1.0000
70	10	0.24777	3.9010	0.0001	1.0000
70	8	0.17362	2.7105	0.0000	1.0000
70	5	0.092865	1.4660	0.0000	1.0000
70	2	0.032963	0.5854	0.0000	0.9999
70	0.1	0.0015473	0.0000	0.0000	
40	20	0.83981	19.2550	0.0213	0.9989
40	18	0.83009	18.2260	0.0177	0.9990
40	15	0.78023	17.4930	0.0136	0.9992
40	12	0.71776	15.7592	0.0083	0.9995
40	10	0.62861	13.6871	0.0047	0.9997
40	8	0.2779	5.2440	0.0006	0.9999
40	5	0.11305	1.7759	0.0001	1.0000
40	2.5	0.037127	0.7871	0.0000	1.0000
40	0.1	0.0016975	0.0000	0.0000	

7°) EVHOSO

EVHOSO-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	Swelling (%)	[CO ₂] (mol.L ⁻¹)	[EVHOSO] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	4.02	0.91	0.92	0.50
100	18	0.42481	2.70	0.32	0.93	0.25
100	15	0.33235	1.03	0.26	0.95	0.22
100	12	0.24207	-0.11	0.19	0.96	0.17
100	10	0.18856	0.84	0.14	0.95	0.13
100	8	0.14127	0.43	0.15	0.96	0.14
100	5	0.080651	1.49	0.12	0.95	0.11
100	2	0.029774	1.04	0.10	0.95	0.10
100	0.1	0.0014218	0.00	0.00	0.95	
70	20	0.65905	64.73	7.86	0.60	0.93
70	18	0.61224	64.94	7.88	0.60	0.93
70	15	0.50588	59.01	7.26	0.62	0.92
70	14	0.45662	53.25	6.86	0.65	0.91
70	12	0.34585	48.37	6.44	0.67	0.91
70	10	0.24777	40.85	5.52	0.70	0.89
70	9	0.20804	37.50	5.01	0.72	0.87
70	8	0.17362	31.99	4.16	0.75	0.85
70	6	0.11681	24.79	2.76	0.79	0.78
70	5	0.092865	14.52	1.47	0.86	0.63
70	4	0.07116	10.73	0.38	0.89	0.30
70	2	0.032963	6.60	0.17	0.93	0.15
70	0.1	0.0015473	0.00	0.00	0.98	
40	20	0.83981	87.26	11.18	0.57	0.95
40	18	0.83009	93.64	11.41	0.55	0.95
40	15	0.78023	84.34	10.89	0.58	0.95
40	14	0.76327	84.64	10.55	0.57	0.95
40	12	0.71776	80.50	10.33	0.59	0.95
40	10	0.62861	75.63	9.89	0.60	0.94
40	9	0.4855	67.78	9.14	0.63	0.94
40	8	0.2779	61.37	8.32	0.66	0.93
40	5	0.11305	35.77	4.71	0.78	0.86
40	4	0.083758	22.19	2.49	0.87	0.74
40	2	0.037127	10.52	0.21	0.96	0.18
40	0.1	0.0016975	0.00	0.00	1.06	

CO₂-rich phase :

T (°C)	P (MPa)	ρ (g.cm ⁻³)	[CO ₂] (mol.L ⁻¹)	[EVHOSO] (mol.L ⁻¹)	X _{CO₂}
100	20	0.48053	10.0750	0.0001	1.0000
100	18	0.42481	7.7267	0.0000	1.0000
100	15	0.33235	6.0033	0.0000	1.0000
100	12	0.24207	4.1664	0.0000	1.0000
100	10	0.18856	3.1816	0.0000	1.0000
100	8	0.14127	1.9127	0.0000	1.0000
100	5	0.080651	1.0226	0.0000	1.0000
100	2	0.029774	0.3030	0.0000	1.0000
100	0.1	0.0014218	0	0	
70	20	0.65905	15.7841	0.0003	1.0000
70	18	0.61224	13.9243	0.0001	1.0000
70	15	0.50588	11.2605	0.0000	1.0000
70	12	0.34585	7.2054	0.0000	1.0000
70	10	0.24777	5.0890	0.0000	1.0000
70	8	0.17362	2.9260	0.0000	1.0000
70	5	0.092865	1.6254	0.0000	1.0000
70	2	0.032963	0.7039	0.0000	1.0000
70	0.1	0.0015473	0	0	
40	20	0.83981	25.8693	0.0026	0.9999
40	18	0.83009	24.2974	0.0019	0.9999
40	15	0.78023	22.1574	0.0009	1.0000
40	12	0.71776	19.4872	0.0002	1.0000
40	10	0.62861	15.0367	0.0001	1.0000
40	8	0.2779	6.0033	0.0000	1.0000
40	5	0.11305	1.9127	0.0000	1.0000
40	2	0.037127	0.7954	0.0000	1.0000
40	0.1	0.0016975	0	0	