

Chosen Data Set <https://github.com/openforcefield/nistdataselection>

A total of 221 data points covering 104 unique molecules are to be optimized against. This will require approximately 242 unique simulation to be performed.

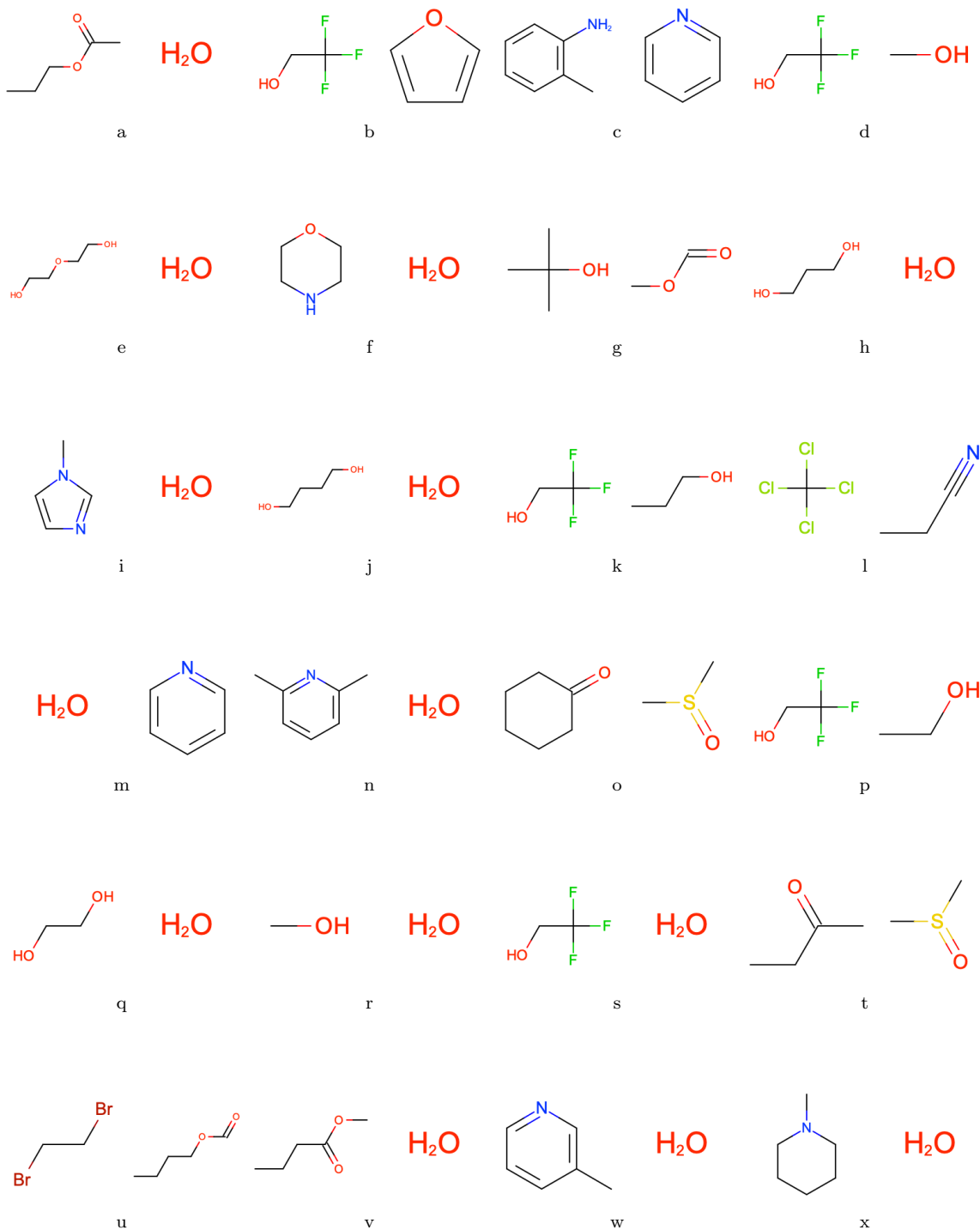
Data Points Per VdW SMIRKS Pattern

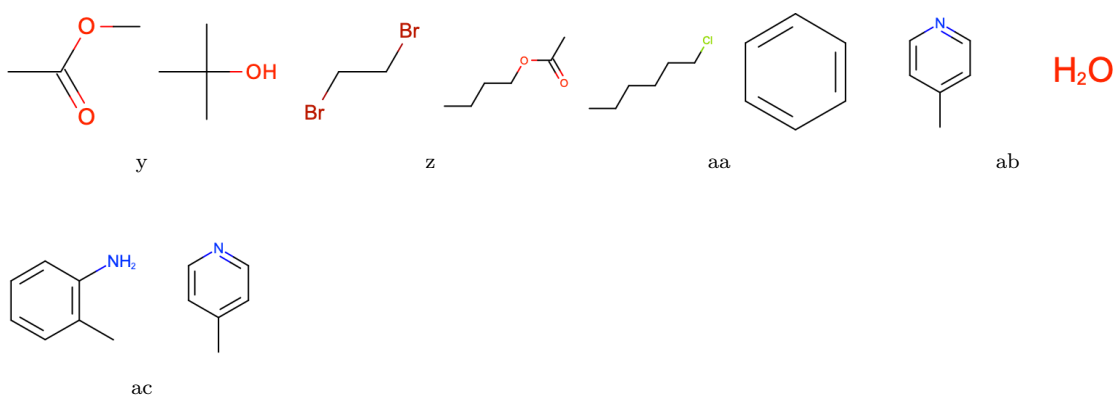
VdW SMIRKS	Binary H_{mix}	Binary V_{excess}	Pure ρ	Pure ΔH_{vap}	Pure ϵ_0
[#6X4:1]	49	32	66	26	30
[#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]	40	28	49	16	26
[#1:1]-[#6X4]	36	24	38	20	18
[#8:1]	35	24	18	16	8
[#1:1]-[#8]	35	16	29	6	22
[#6:1]	26	20	34	27	6
[#8X2H1+0:1]	24	14	29	6	22
[#8X2H0+0:1]	16	8	15	15	5
[#7:1]	15	6	19	7	8
[#1:1]-[#6X3]	11	6	17	26	1
[#9:1]	10	2	8	3	0
[#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]	9	6	11	14	1
[#35:1]	4	6	9	1	0
[#17:1]	4	4	10	2	0
[#16:1]	4	4	5	9	3

Unique Substances Per Data Type

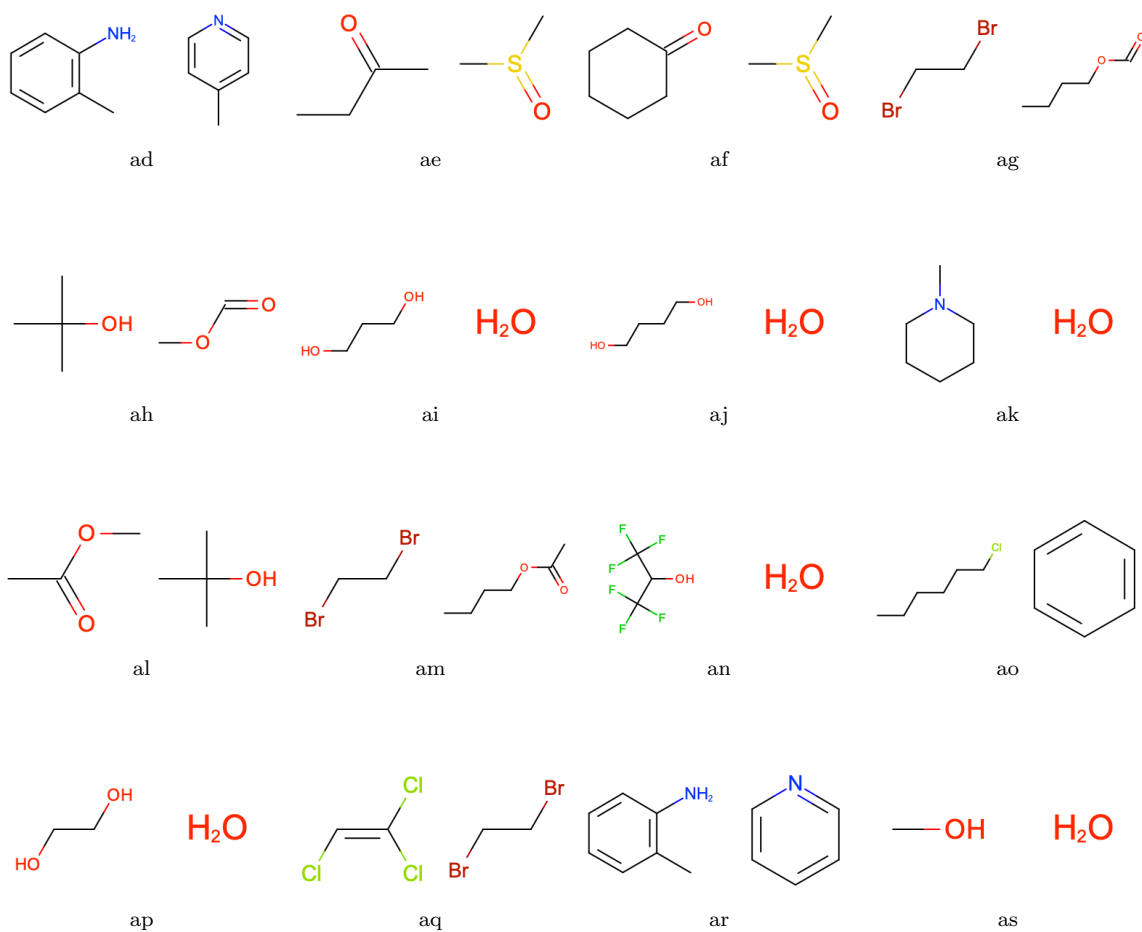
Binary H_{mix}	Binary V_{excess}	Pure ρ	Pure ΔH_{vap}	Pure ϵ_0
29	16	77	30	30

Binary H_{mix}

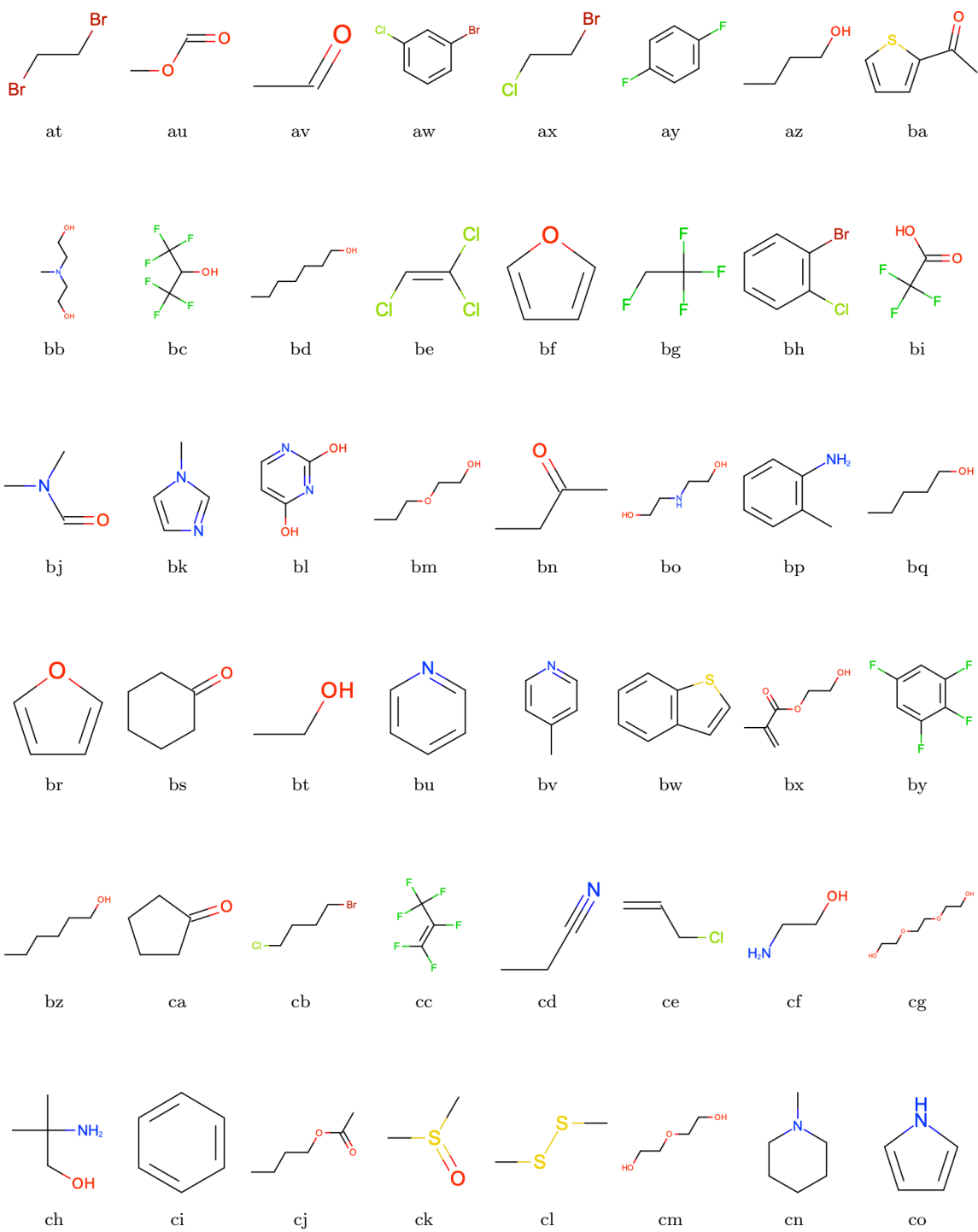


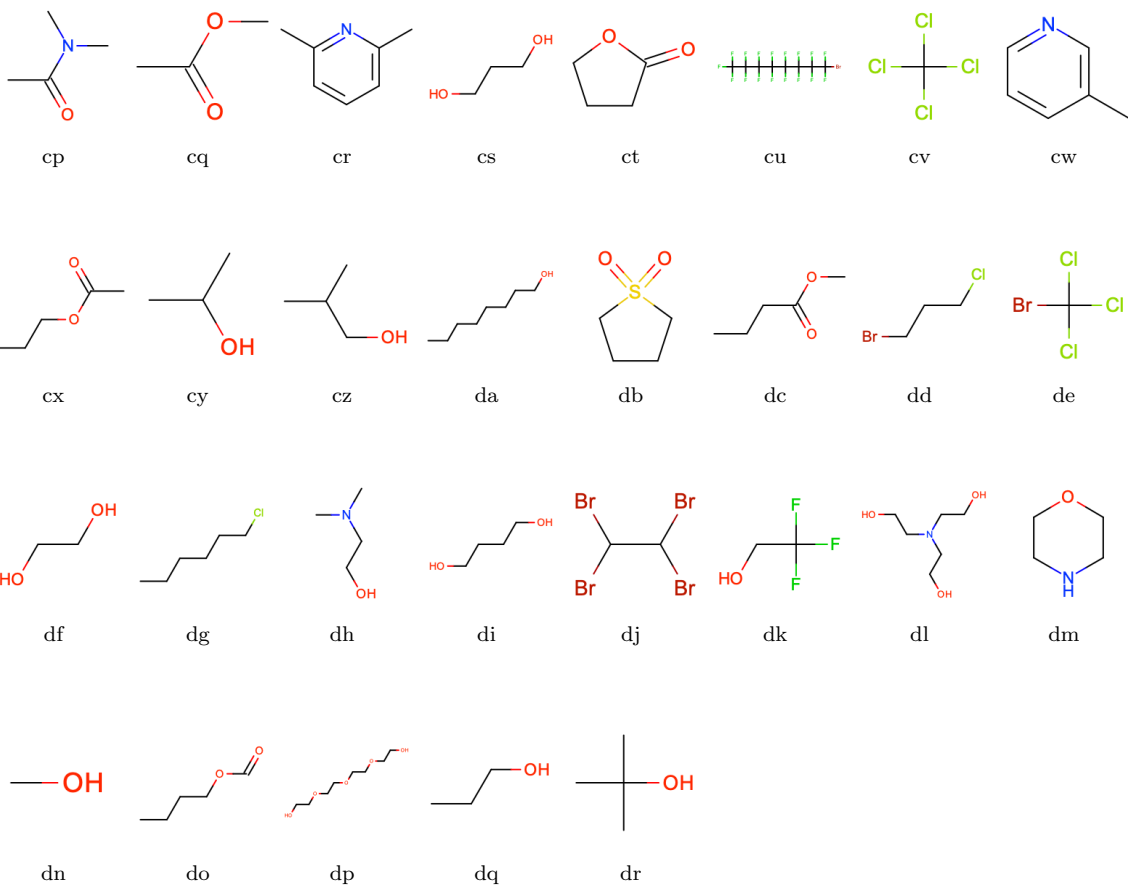


Binary V_{excess}

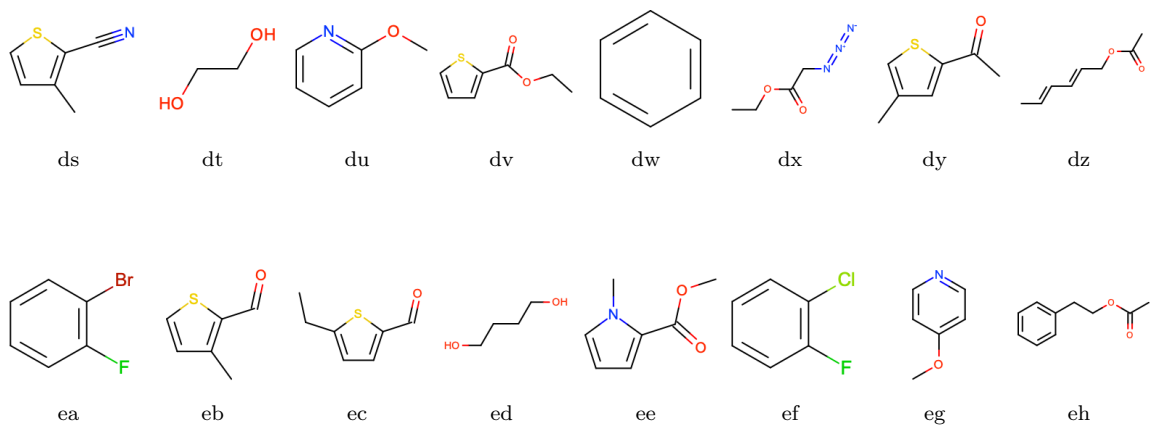


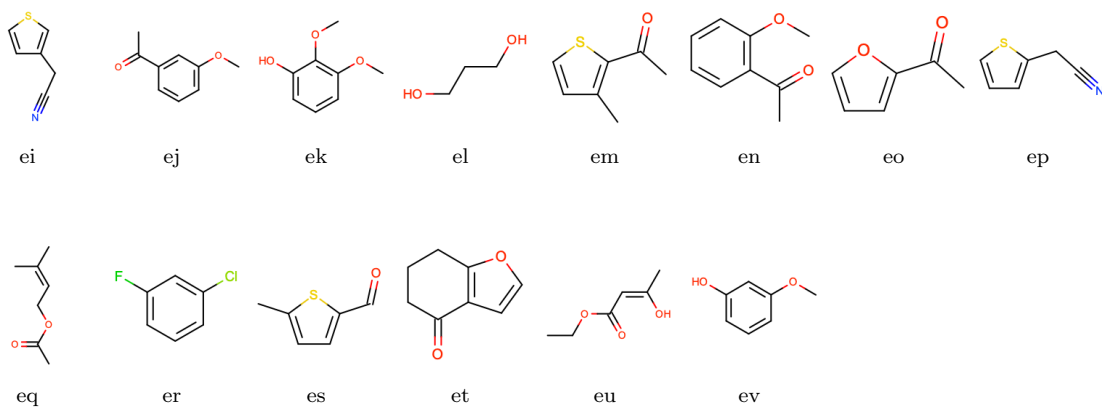
Pure ρ



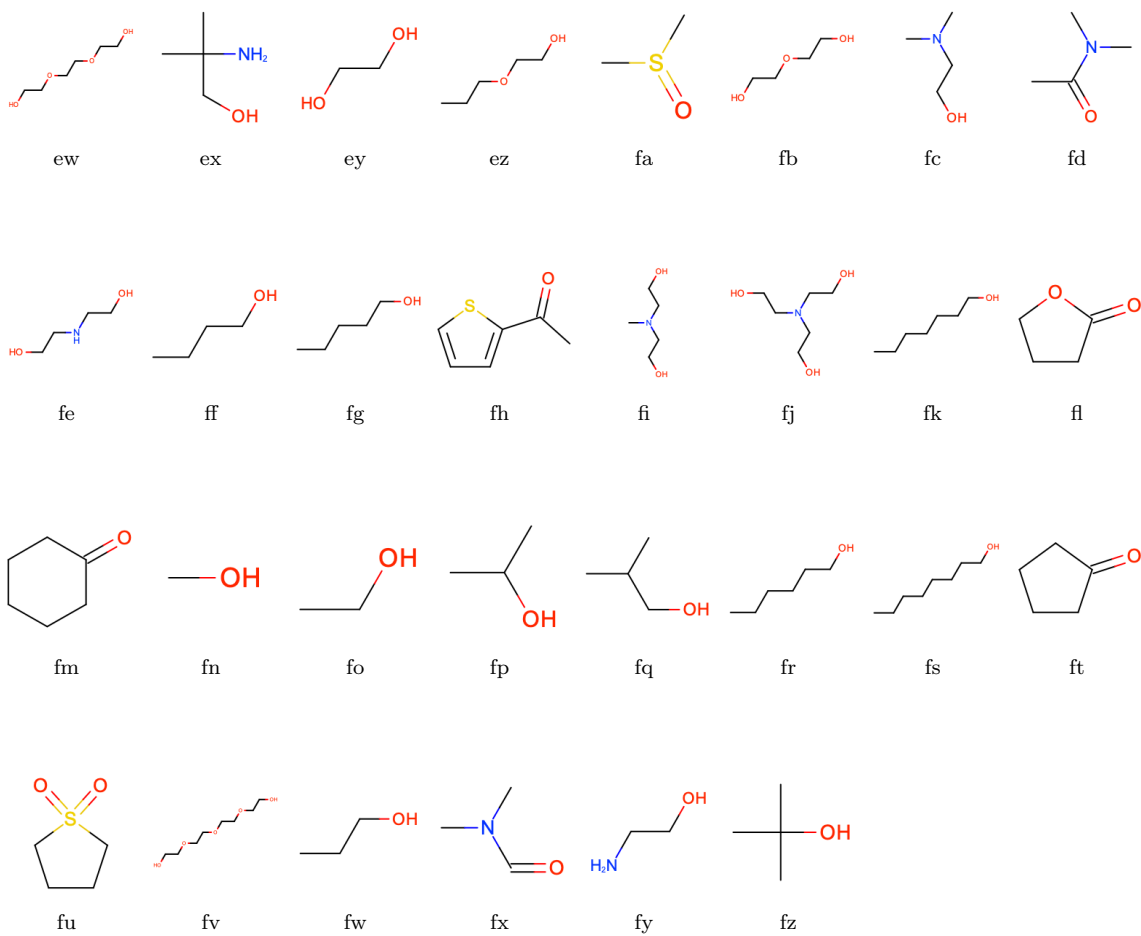


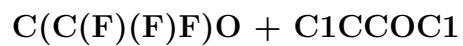
Pure ΔH_{vap}



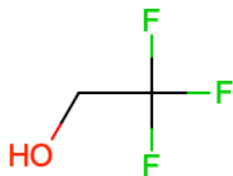


Pure ϵ_0





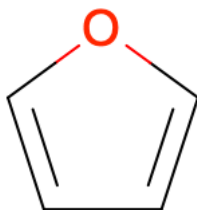
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Structure



SMIRKS Exercised

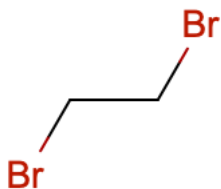
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#8X2H0+0:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101.3	0.212	0.788	je034076x.xml
298.15	101.3	0.717	0.283	je034076x.xml

C(CBr)Br

Structure



SMIRKS Exercised

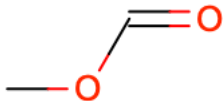
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
295.15	101.325	1	j.jct.2005.07.009.xml

COC=O

Structure

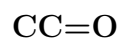


SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2015.05.031.xml



Structure



SMIRKS Exercised

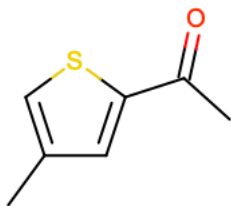
- [#1:1]-[#6X4]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
289.15	101.325	1	je300810p.xml

Cc1cc(sc1)C(=O)C

Structure



SMIRKS Exercised

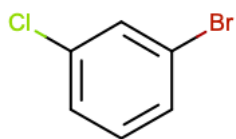
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2008.03.008.xml

c1cc(cc(c1)Br)Cl

Structure



SMIRKS Exercised

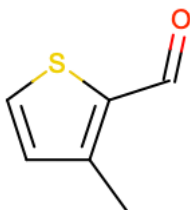
- [#1:1]-[#6X3]
- [#6:1]
- [#17:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je600573w.xml



Structure



SMIRKS Exercised

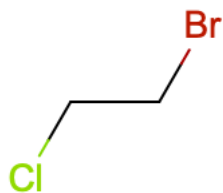
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2008.02.004.xml

C(CBr)Cl

Structure

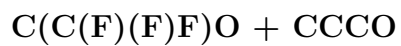


SMIRKS Exercised

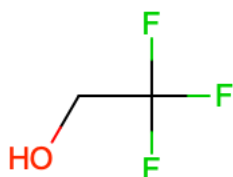
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#17:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je034259j.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

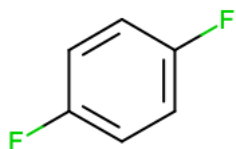
Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.20133	0.79867	j.tca.2007.04.012.xml
298.15	101	0.79867	0.20133	j.tca.2007.04.012.xml

c1cc(ccc1F)F

Structure

SMIRKS Exercised



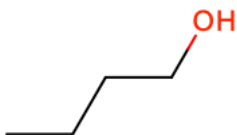
- [#1:1]-[#6X3]
- [#6:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
296.1	101.325	1	je8006474.xml

CCCCO

Structure



SMIRKS Exercised

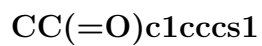
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

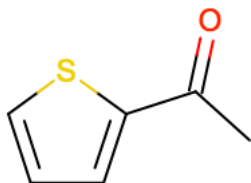
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je300632p.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je900503p.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Density Data

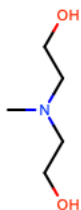
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.fluid.2016.10.026.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.fluid.2016.10.026.xml

CN(CCO)CCO

Structure



SMIRKS Exercised

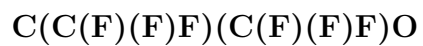
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

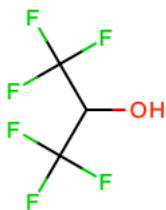
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je050463q.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je600515j.xml



Structure



SMIRKS Exercised

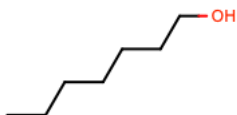
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je500455u.xml

CCCCCCCCO

Structure



SMIRKS Exercised

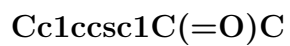
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

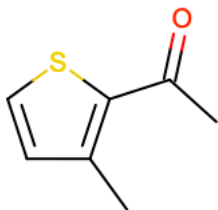
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je500381c.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je060248p.xml



Structure

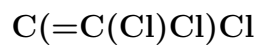


SMIRKS Exercised

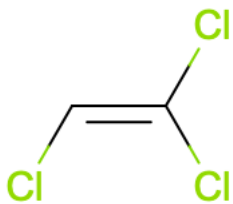
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2008.03.008.xml



Structure



SMIRKS Exercised

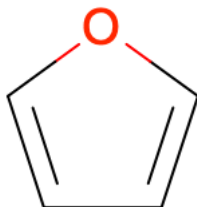
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#17:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je201211f.xml

c1ccoc1

Structure



SMIRKS Exercised

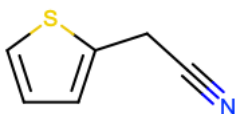
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
293.15	101.325	1	j.jct.2016.07.010.xml

c1cc(sc1)CC#N

Structure

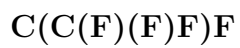


SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X2:1]
- [#6X4:1]
- [#7:1]
- [#16:1]

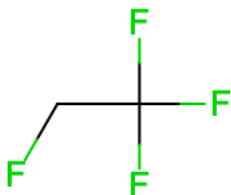
Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2007.06.020.xml



Structure

SMIRKS Exercised



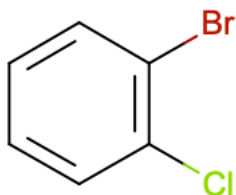
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
293.219	100.049	1	je0497496.xml

c1ccc(c(c1)Cl)Br

Structure



SMIRKS Exercised

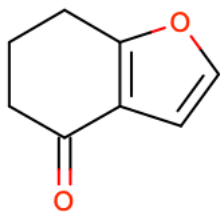
- [#1:1]-[#6X3]
- [#6:1]
- [#17:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je600573w.xml

c1coc2c1C(=O)CCC2

Structure



SMIRKS Exercised

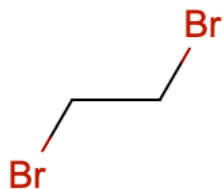
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2012.07.008.xml



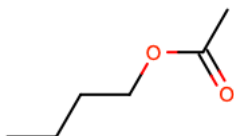
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#35:1]

Structure



SMIRKS Exercised

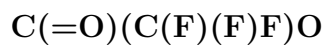
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2146	0.7854	j.jct.2009.05.006.xml
298.15	101	0.7661	0.2339	j.jct.2009.05.006.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2547	0.7453	j.jct.2009.05.006.xml
298.15	101	0.7476	0.2524	j.jct.2009.05.006.xml



Structure

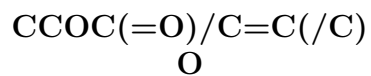


SMIRKS Exercised

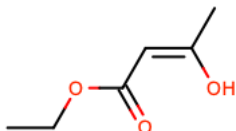
- [#1:1]-[#8]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H1+0:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
293.15	101.325	1	j.fluid.2015.08.012.xml



Structure

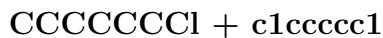


SMIRKS Exercised

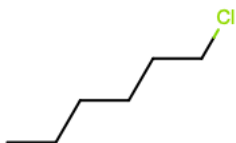
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#8]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je050179z.xml



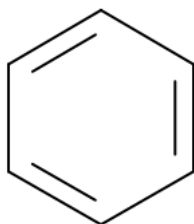
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#17:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X3]
- [#6:1]

Binary Enthalpy Of Mixing Data

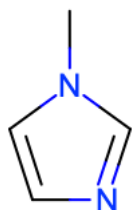
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2862	0.7138	je025625m.xml
298.15	101	0.7352	0.2648	je025625m.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2877	0.7123	je025625m.xml
298.15	101	0.772	0.228	je025625m.xml

Cn1ccnc1

Structure

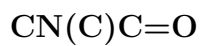


SMIRKS Exercised

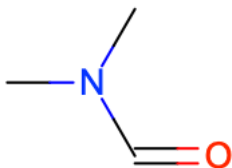
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je200093f.xml



Structure



SMIRKS Exercised

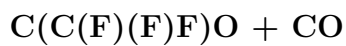
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#7:1]

Pure Density Data

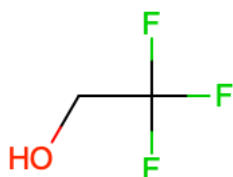
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je5002945.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	j.fluid.2009.07.009.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Structure



SMIRKS Exercised

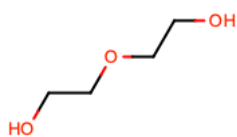
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.29705	0.70295	j.tca.2007.04.012.xml
298.15	101	0.70985	0.29015	j.tca.2007.04.012.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Structure



SMIRKS Exercised

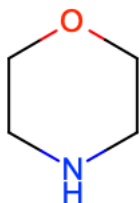
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2002	0.7998	j.tca.2009.06.004.xml
298.15	101	0.7906	0.2094	j.tca.2009.06.004.xml

C1COCCN1 + O

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#7]
- [#6X4:1]
- [#8X2H0+0:1]
- [#7:1]

Structure



SMIRKS Exercised

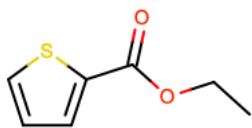
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.7149	0.2851	j.jct.2015.06.006.xml
313.15	101	0.2968	0.7032	j.jct.2015.06.006.xml

CCOC(=O)c1cccs1

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2012.09.007.xml

c1cnc(nc1O)O

Structure



SMIRKS Exercised

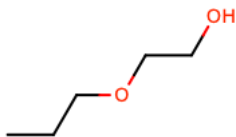
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2012.07.022.xml

CCCOCCO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Density Data

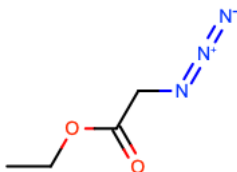
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2007.09.004.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2007.09.004.xml



Structure

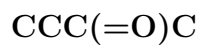


SMIRKS Exercised

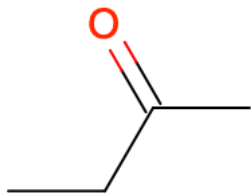
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]
- [#7:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2011.05.028.xml



Structure



SMIRKS Exercised

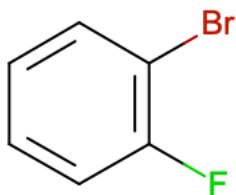
- [#1:1]-[#6X4]
- [#6:1]
- [#6X4:1]
- [#8:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2015.04.017.xml

c1ccc(c(c1)F)Br

Structure



SMIRKS Exercised

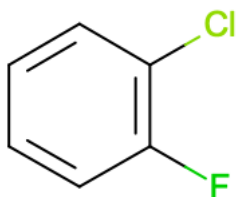
- [#1:1]-[#6X3]
- [#6:1]
- [#9:1]
- [#35:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2014.12.023.xml

c1ccc(c(c1)F)Cl

Structure



SMIRKS Exercised

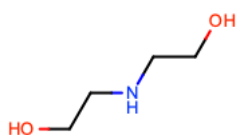
- [#1:1]-[#6X3]
- [#6:1]
- [#9:1]
- [#17:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2014.12.023.xml

C(CO)NCCO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#7]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

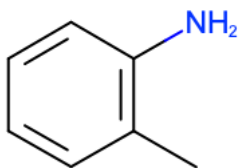
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je050463q.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je600515j.xml

Cc1ccccc1N

Structure



SMIRKS Exercised

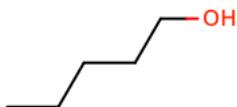
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#7]
- [#6:1]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2011.10.002.xml

CCCCCO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

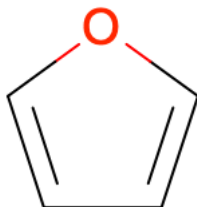
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2015.03.040.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.tca.2012.05.036.xml

C1CCOC1

Structure



SMIRKS Exercised

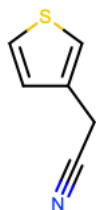
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2010.08.006.xml

c1csc1CC#N

Structure

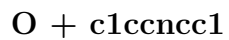


SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X2:1]
- [#6X4:1]
- [#7:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2007.06.020.xml



Structure

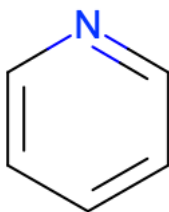
SMIRKS Exercised



- [#1:1]-[#8]
- [#8:1]

Structure

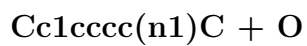
SMIRKS Exercised



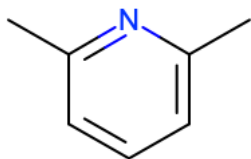
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#7:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
297.15	101	0.27	0.73	j.fluid.2009.10.018.xml
297.15	101	0.75	0.25	j.fluid.2009.10.018.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#7:1]

Structure



SMIRKS Exercised

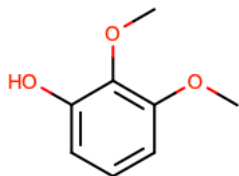
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.004618	0.995382	je200093f.xml

COc1cccc(c1OC)O

Structure



SMIRKS Exercised

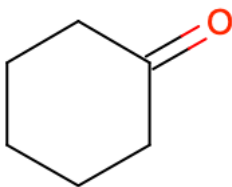
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#8]
- [#6:1]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je025641j.xml

C1CCC(=O)CC1

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#6:1]
- [#6X4:1]
- [#8:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2004.07.010.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je200682t.xml

CCO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

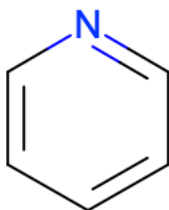
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je1013476.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	j.fluid.2009.07.009.xml

c1ccncc1

Structure



SMIRKS Exercised

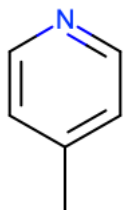
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je100472t.xml

Cc1ccncc1

Structure

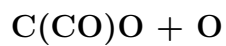


SMIRKS Exercised

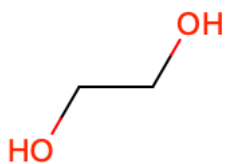
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2011.10.002.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Structure



SMIRKS Exercised

- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2051	0.7949	j.tca.2009.06.004.xml
298.15	101	0.7909	0.2091	j.tca.2009.06.004.xml

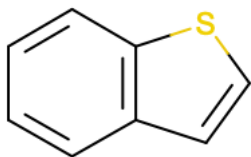
Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.25008	0.74992	j.fluid.2013.06.041.xml
298.15	101	0.77876	0.22124	j.fluid.2013.06.041.xml

c1ccc2c(c1)ccs2

Structure

SMIRKS Exercised



- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#16:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2013.12.029.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2015.02.015.xml

CO + O

Structure

SMIRKS Exercised



- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Structure

SMIRKS Exercised



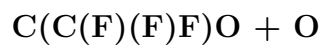
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

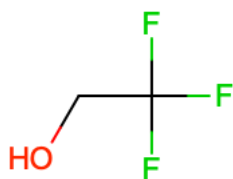
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2	0.8	j.tca.2006.02.028.xml
298.15	101	0.8	0.2	j.tca.2006.02.028.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	100	0.25	0.75	j.jct.2004.03.011.xml
298.15	100	0.75	0.25	j.jct.2004.03.011.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Structure

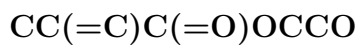


SMIRKS Exercised

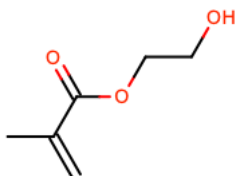
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.29878	0.70122	j.tca.2007.04.012.xml
298.15	101	0.70779	0.29221	j.tca.2007.04.012.xml



Structure



SMIRKS Exercised

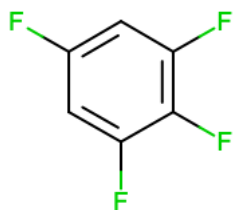
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#8]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je050223a.xml

c1c(cc(c(c1F)F)F)F

Structure



SMIRKS Exercised

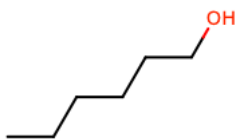
- [#1:1]-[#6X3]
- [#6:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
296.3	101.325	1	je8006474.xml

CCCCCO

Structure



SMIRKS Exercised

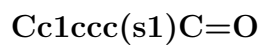
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

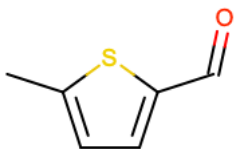
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je501133u.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je060248p.xml



Structure



SMIRKS Exercised

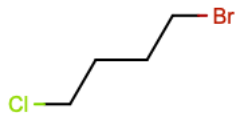
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2008.02.004.xml

C(CBr)CCl

Structure

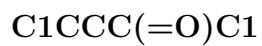


SMIRKS Exercised

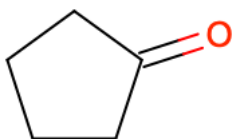
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#17:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je201002j.xml



Structure



SMIRKS Exercised

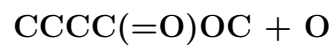
- [#1:1]-[#6X4]
- [#6:1]
- [#6X4:1]
- [#8:1]

Pure Density Data

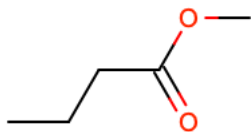
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je200468r.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je200682t.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Structure

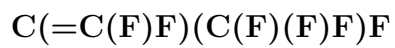


SMIRKS Exercised

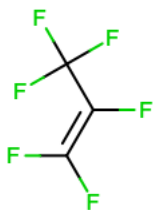
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101.3	0.997803	0.002197	je300280s.xml



Structure



SMIRKS Exercised

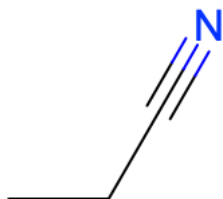
- [#6:1]
- [#6X4:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.28	100.4	1	je900596d.xml

CCC#N

Structure

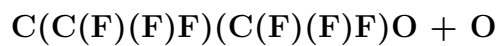


SMIRKS Exercised

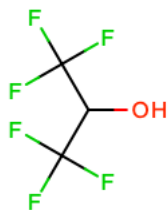
- [#1:1]-[#6X4]
- [#6X2:1]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.tca.2009.10.001.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Structure



SMIRKS Exercised

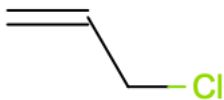
- [#1:1]-[#8]
- [#8:1]

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.205	0.795	j.jct.2011.11.019.xml
298.15	101	0.8065	0.1935	j.jct.2011.11.019.xml



Structure



SMIRKS Exercised

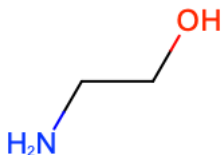
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#17:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
293	101.325	1	je034018b.xml

C(CO)N

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#7]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101	1	je3013205.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101	1	j.fluid.2008.01.024.xml

C(COCCOCCO)O

Structure



SMIRKS Exercised

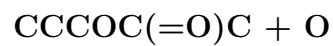
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Density Data

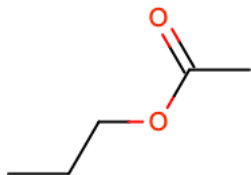
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2007.09.004.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2007.09.004.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Structure



SMIRKS Exercised

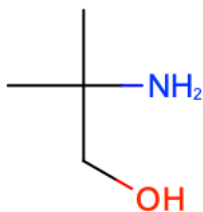
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
318.15	101.3	0.997504	0.002496	je300280s.xml

CC(C)(CO)N

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#7]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

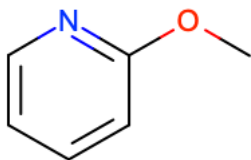
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je050463q.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je600515j.xml

COc1cccn1

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8X2H0+0:1]
- [#7:1]

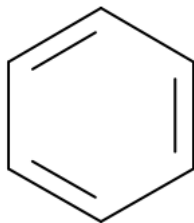
Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2011.11.032.xml

c1ccccc1

Structure

SMIRKS Exercised



- [#1:1]-[#6X3]
- [#6:1]

Pure Density Data

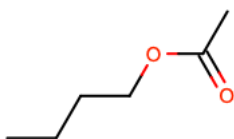
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2008.09.005.xml

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298	101.325	1	je800091s.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2014.01.012.xml

CS(=O)C

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101	1	je3007474.xml

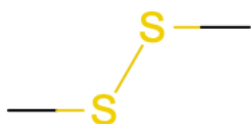
Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101	1	je400149j.xml

CSSC

Structure

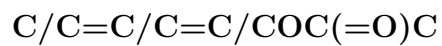
SMIRKS Exercised



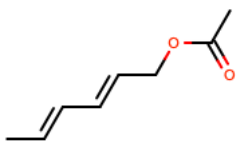
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#16:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	acs.jced.7b00078.xml



Structure



SMIRKS Exercised

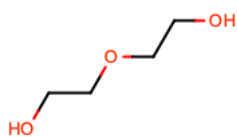
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2015.02.015.xml

C(COCCO)O

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Density Data

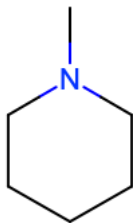
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je300827f.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2007.09.004.xml

CN1CCCCC1

Structure

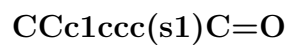


SMIRKS Exercised

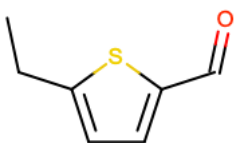
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2010.05.001.xml



Structure



SMIRKS Exercised

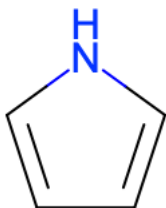
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2008.02.004.xml

c1cc[nH]c1

Structure

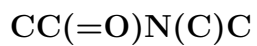


SMIRKS Exercised

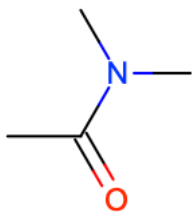
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#1:1]-[#7]
- [#6:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je700233p.xml



Structure



SMIRKS Exercised

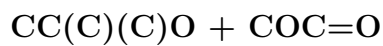
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	acs.jced.6b00354.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	j.fluid.2009.07.009.xml



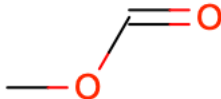
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Binary Enthalpy Of Mixing Data

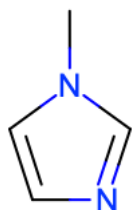
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
299.15	101.32	0.2778	0.7222	je034290l.xml
299.15	101.32	0.7127	0.2873	je034290l.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
299.15	101.32	0.2778	0.7222	je034290l.xml
299.15	101.32	0.7581	0.2419	je034290l.xml

Cn1ccnc1 + O

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Structure

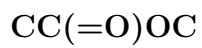


SMIRKS Exercised

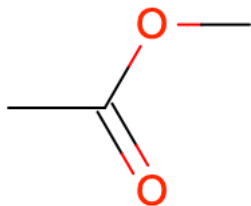
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.006766	0.993234	je200093f.xml



Structure



SMIRKS Exercised

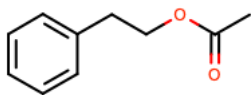
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2015.12.029.xml

CC(=O)OCCc1ccccc1

Structure



SMIRKS Exercised

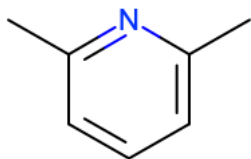
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2015.02.015.xml

Cc1cccc(n1)C

Structure



SMIRKS Exercised

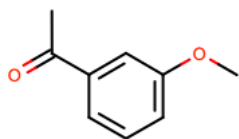
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je200093f.xml

CC(=O)c1cccc(c1)OC

Structure



SMIRKS Exercised

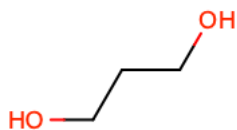
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2014.03.027.xml

C(CO)CO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

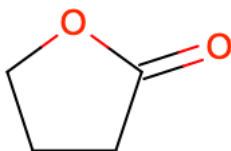
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.tca.2006.08.006.xml

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je060333x.xml

C1CC(=O)OC1

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je100803e.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je900503p.xml

C(C(C(C(C(F)(F)Br)(F)F)(F)F)(F)F)(C(C(C(F)(F)F)(F)F)(F)F)(F)F)(F)F

Structure

SMIRKS Exercised



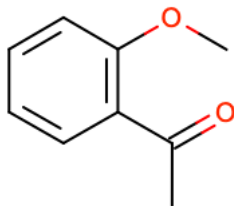
- [#6X4:1]
- [#9:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je050056e.xml

CC(=O)c1ccccc1OC

Structure



SMIRKS Exercised

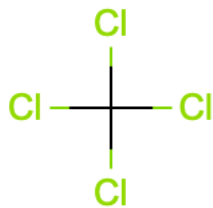
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2014.03.027.xml



Structure



SMIRKS Exercised

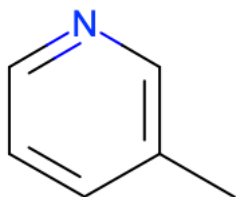
- [#6X4:1]
- [#17:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je100489z.xml

Cc1cccn1

Structure



SMIRKS Exercised

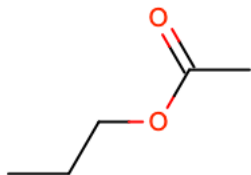
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2011.10.002.xml



Structure

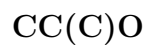


SMIRKS Exercised

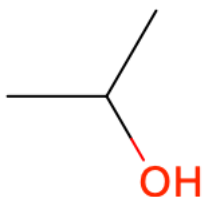
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je300974g.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

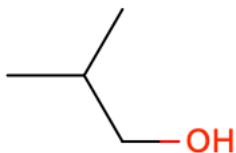
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
300.15	101.325	1	j.jct.2011.10.028.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
300.15	101.325	1	j.jct.2011.10.028.xml

CC(C)CO

Structure



SMIRKS Exercised

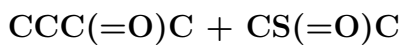
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

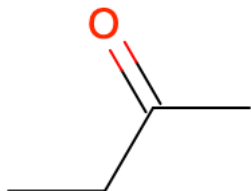
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	s10765-007-0204-0.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je800593p.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#6:1]
- [#6X4:1]
- [#8:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#8:1]
- [#16:1]

Binary Enthalpy Of Mixing Data

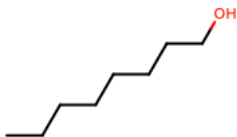
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2203	0.7797	j.jct.2007.04.004.xml
298.15	101	0.7615	0.2385	j.jct.2007.04.004.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
303.15	101	0.212	0.788	j.jct.2007.08.006.xml
303.15	101	0.734	0.266	j.jct.2007.08.006.xml

CCCCCCCCO

Structure



SMIRKS Exercised

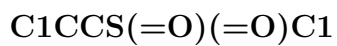
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

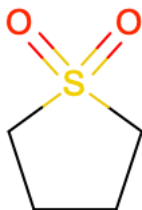
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je400630f.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je060248p.xml



Structure



SMIRKS Exercised

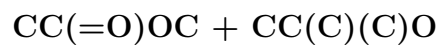
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#8:1]
- [#16:1]

Pure Density Data

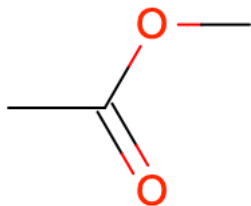
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.tca.2012.10.004.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.tca.2012.10.004.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Binary Enthalpy Of Mixing Data

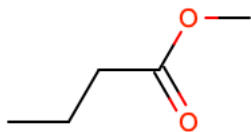
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
318.15	101.32	0.2372	0.7628	je034290l.xml
318.15	101.32	0.7696	0.2304	je034290l.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
303.15	101.32	0.2568	0.7432	je034290l.xml
303.15	101.32	0.7519	0.2481	je034290l.xml

CCCC(=O)OC

Structure



SMIRKS Exercised

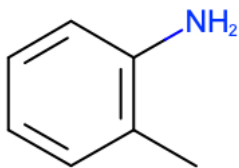
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je300280s.xml

Cc1ccccc1N + c1ccncc1

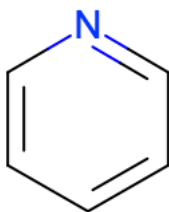
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#7]
- [#6:1]
- [#6X4:1]
- [#7:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#7:1]

Binary Enthalpy Of Mixing Data

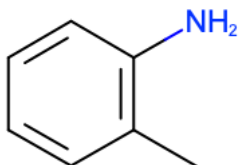
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
308.15	101	0.2681	0.7319	j,jct.2010.12.028.xml
308.15	101	0.7735	0.2265	j,jct.2010.12.028.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2374	0.7626	j,jct.2010.12.028.xml
298.15	101	0.7678	0.2322	j,jct.2010.12.028.xml

Cc1ccccc1N + Cc1ccncc1

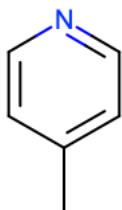
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#7]
- [#6:1]
- [#6X4:1]
- [#7:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Binary Enthalpy Of Mixing Data

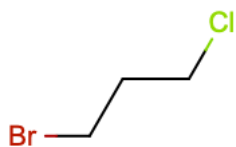
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
308.15	101	0.2715	0.7285	j,jct.2010.12.028.xml
308.15	101	0.7827	0.2173	j,jct.2010.12.028.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2655	0.7345	j,jct.2010.12.028.xml
298.15	101	0.7674	0.2326	j,jct.2010.12.028.xml

C(CCl)CBr

Structure



SMIRKS Exercised

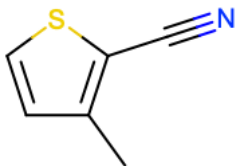
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#17:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je201002j.xml

Cc1ccsc1C#N

Structure

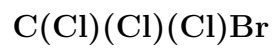


SMIRKS Exercised

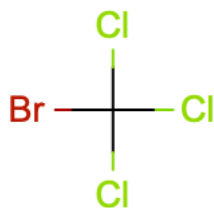
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X2:1]
- [#6X4:1]
- [#7:1]
- [#16:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2007.06.020.xml



Structure



SMIRKS Exercised

- [#6X4:1]
- [#17:1]
- [#35:1]

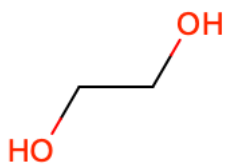
Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2015.03.023.xml

C(CO)O

Structure

SMIRKS Exercised



- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2012.08.024.xml
303.15	101.325	1	j.jct.2012.08.024.xml

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je060333x.xml

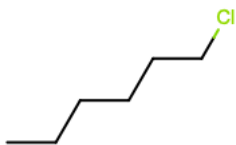
Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	j.fluid.2009.07.009.xml

CCCCCCCCl

Structure

SMIRKS Exercised



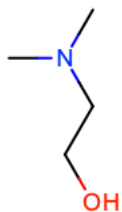
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#17:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2013.12.024.xml

CN(C)CCO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

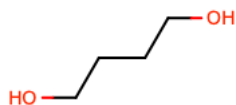
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	acs.jced.5b00282.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	j.fluid.2009.07.009.xml

C(CCO)CO

Structure



SMIRKS Exercised

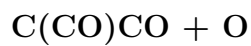
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

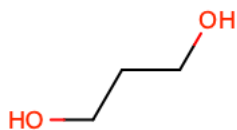
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je401020e.xml

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je060333x.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Structure



SMIRKS Exercised

- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

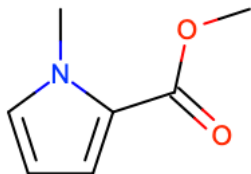
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2087	0.7913	j.jct.2005.06.018.xml
298.15	101	0.743	0.257	j.jct.2005.06.018.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2554	0.7446	j.jct.2009.11.018.xml
298.15	101	0.7551	0.2449	j.jct.2009.11.018.xml

Cn1cccc1C(=O)OC

Structure

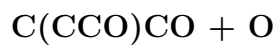


SMIRKS Exercised

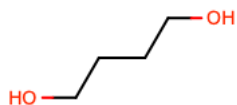
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]
- [#7:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2013.08.004.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Structure



SMIRKS Exercised

- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

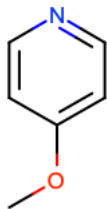
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2658	0.7342	j.jct.2005.06.018.xml
298.15	101	0.7947	0.2053	j.jct.2005.06.018.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2297	0.7703	j.jct.2009.11.018.xml
298.15	101	0.7847	0.2153	j.jct.2009.11.018.xml

COc1ccncc1

Structure



SMIRKS Exercised

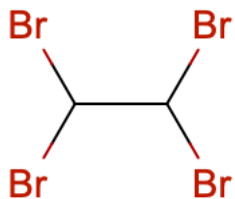
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8X2H0+0:1]
- [#7:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2011.11.032.xml

C(C(Br)Br)(Br)Br

Structure

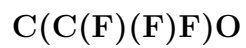


SMIRKS Exercised

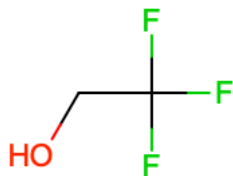
- [#1:1]-[#6X4](-[#7,#8,#9,#16,#17,#35])-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#35:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
293.15	101	1	j.jct.2005.03.027.xml



Structure

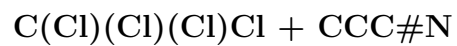


SMIRKS Exercised

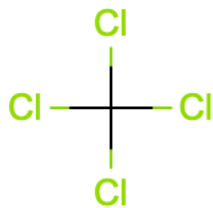
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je025655p.xml



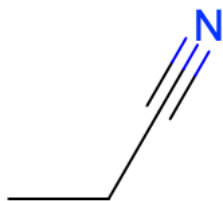
Structure



SMIRKS Exercised

- [#6X4:1]
- [#17:1]

Structure



SMIRKS Exercised

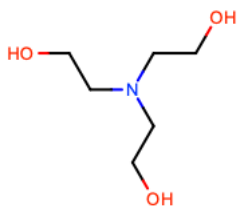
- [#1:1]-[#6X4]
- [#6X2:1]
- [#6X4:1]
- [#7:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2551	0.7449	je100489z.xml
298.15	101	0.7326	0.2674	je100489z.xml

C(CO)N(CCO)CCO

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#7:1]

Pure Density Data

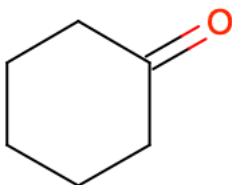
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je050463q.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.325	1	je600515j.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#6:1]
- [#6X4:1]
- [#8:1]

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#8:1]
- [#16:1]

Binary Enthalpy Of Mixing Data

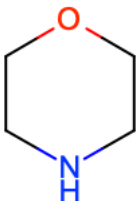
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2762	0.7238	j.jct.2007.04.004.xml
298.15	101	0.7569	0.2431	j.jct.2007.04.004.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
303.15	101	0.2241	0.7759	j.jct.2007.08.006.xml
303.15	101	0.7218	0.2782	j.jct.2007.08.006.xml

C1COCCN1

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#7]
- [#6X4:1]
- [#8X2H0+0:1]
- [#7:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je020191g.xml

CO

Structure

SMIRKS Exercised



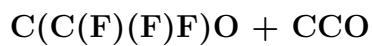
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

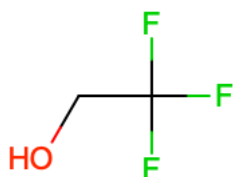
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	j.jct.2011.08.028.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101	1	je800593p.xml



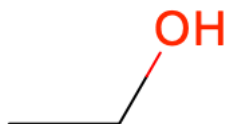
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]
- [#9:1]

Structure



SMIRKS Exercised

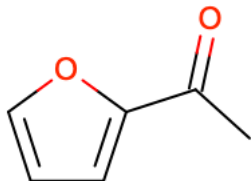
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.29919	0.70081	j.tca.2007.04.012.xml
298.15	101	0.79638	0.20362	j.tca.2007.04.012.xml

CC(=O)c1ccco1

Structure



SMIRKS Exercised

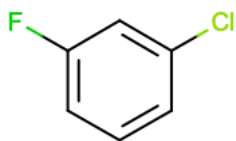
- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.jct.2008.08.004.xml

c1cc(cc(c1)Cl)F

Structure



SMIRKS Exercised

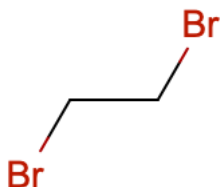
- [#1:1]-[#6X3]
- [#6:1]
- [#9:1]
- [#17:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2014.12.023.xml

C(CBr)Br + CCCOC=O

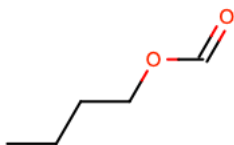
Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#35:1]

Structure



SMIRKS Exercised

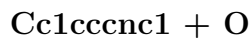
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Binary Enthalpy Of Mixing Data

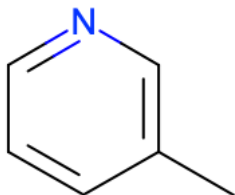
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.3993	0.6007	j.jct.2009.05.006.xml
298.15	101	0.7275	0.2725	j.jct.2009.05.006.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.3993	0.6007	j.jct.2009.05.006.xml
298.15	101	0.7738	0.2262	j.jct.2009.05.006.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Structure



SMIRKS Exercised

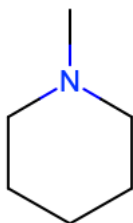
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.005509	0.994491	je200093f.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#7:1]

Structure



SMIRKS Exercised

- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

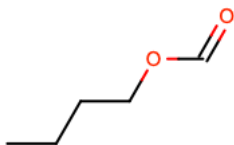
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.004409	0.995591	je200093f.xml

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.2452	0.7548	j.fluid.2010.05.001.xml
308.15	101	0.78	0.22	j.fluid.2010.05.001.xml



Structure



SMIRKS Exercised

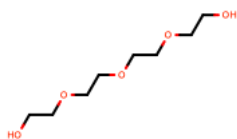
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]([#7,#8,#9,#16,#17,#35]) [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#8:1]
- [#8X2H0+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	j.fluid.2013.11.026.xml

C(COCCOCCOCCO)O

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Density Data

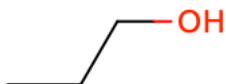
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.3	1	j.fluid.2007.09.009.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
303.15	101.3	1	j.jct.2007.09.004.xml

CCCO

Structure



SMIRKS Exercised

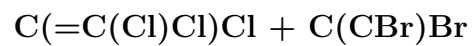
- [#1:1]-[#6X4]
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

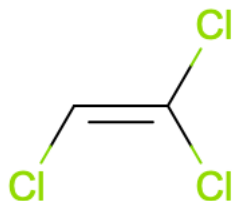
Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
300.15	101.325	1	j.jct.2011.10.028.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
300.15	101.325	1	j.jct.2011.10.028.xml



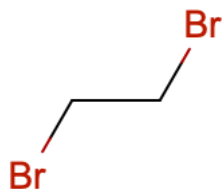
Structure



SMIRKS Exercised

- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#17:1]

Structure



SMIRKS Exercised

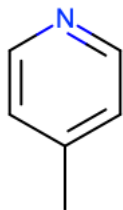
- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#6X4:1]
- [#35:1]

Binary Excess Molar Volume Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
303.15	101.325	0.2077	0.7923	j.jct.2004.11.013.xml
303.15	101.325	0.7903	0.2097	j.jct.2004.11.013.xml

Cc1ccncc1 + O

Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#6X3]
- [#1:1]-[#6X3] [#7,#8,#9,#16,#17,#35]
- [#6:1]
- [#6X4:1]
- [#7:1]

Structure



SMIRKS Exercised

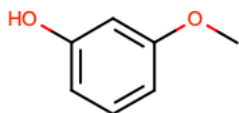
- [#1:1]-[#8]
- [#8:1]

Binary Enthalpy Of Mixing Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Mole Fraction 2	Source
298.15	101	0.005492	0.994508	je200093f.xml

COc1cccc(c1)O

Structure

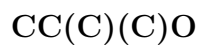


SMIRKS Exercised

- [#1:1]-[#6X4]-[#7,#8,#9,#16,#17,#35]
- [#1:1]-[#6X3]
- [#1:1]-[#8]
- [#6:1]
- [#6X4:1]
- [#8X2H0+0:1]
- [#8X2H1+0:1]

Pure Enthalpy Of Vaporization Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	101.325	1	je025641j.xml



Structure



SMIRKS Exercised

- [#1:1]-[#6X4]
- [#1:1]-[#8]
- [#6X4:1]
- [#8X2H1+0:1]

Pure Density Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	j.tca.2016.03.026.xml

Pure Dielectric Constant Data

Temperature (K)	Pressure (kPa)	Mole Fraction 1	Source
298.15	100	1	je3007666.xml