Hexane, 1-ethoxy-

1-ethoxyhexane
3-oxanonane
ether, ethyl hexyl
ethyl hexyl ether
ethyl n-hexyl ether
hexyl ethyl ether
InChI=1S/C8H18O/c1-3-5-6-7-8-9-4-2/h3-8H2,1-2H3
ZXHQLEQLZPJIFG-UHFFFAOYSA-N
C8H18O
22022222
130.23
5756-43-4

Physical Properties

Property code	Value	Unit	Source
gf	-88.52	kJ/mol	Joback Method
hf	-340.67	kJ/mol	Joback Method
hfus	17.66	kJ/mol	Joback Method
hvap	35.81	kJ/mol	Joback Method
ie	9.33	eV	NIST Webbook
log10ws	-2.26		Crippen Method
logp	2.603		Crippen Method
mcvol	129.450	ml/mol	McGowan Method
рс	2492.52	kPa	Joback Method
rinpol	882.00		NIST Webbook
rinpol	882.00		NIST Webbook
tb	404.86	К	Joback Method
tc	568.81	К	Joback Method
tf	202.15	K	Joback Method
VC	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code

Source

cpg	257.48	J/mol×K	404.86	Joback Method	
cpg	270.17	J/mol×K	432.19	Joback Method	
cpg	282.47	J/mol×K	459.51	Joback Method	
cpg	294.38	J/mol×K	486.84	Joback Method	
cpg	305.91	J/mol×K	514.16	Joback Method	
cpg	317.06	J/mol×K	541.49	Joback Method	
cpg	327.83	J/mol×K	568.81	Joback Method	
dvisc	0.0002200	Paxs	404.86	Joback Method	
dvisc	0.0017915	Paxs	235.94	Joback Method	
dvisc	0.0009546	Paxs	269.72	Joback Method	
dvisc	0.0005852	Paxs	303.50	Joback Method	
dvisc	0.0041498	Paxs	202.15	Joback Method	
dvisc	0.0002873	Paxs	371.08	Joback Method	
dvisc	0.0003956	Paxs	337.29	Joback Method	
rhol	775.80	kg/m3	288.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	
rhol	771.47	kg/m3	293.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	
rhol	767.15	kg/m3	298.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	
rhol	762.80	kg/m3	303.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	

rhol	758.45	kg/m3	308.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	
rhol	754.06	kg/m3	313.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	
rhol	749.66	kg/m3	318.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	
rhol	745.27	kg/m3	323.15	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model	

Sources

Crippen Method:

Liquid-liquid equilibrium in binary systems of isomeric C8 aliphatic (honvietneisuum) equilibrium in binary systems of isomeric C8 aliphatic monserfacted aliphatic Systems of spore site of the systems with second states and their Description by the COSMO-SAC Model: McGowan Method:

NIST Webbook:

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws https://www.doi.org/10.1016/j.fluid.2013.07.002 https://www.doi.org/10.1016/j.jct.2014.12.025 https://www.doi.org/10.1021/acs.jced.5b00838 https://en.wikipedia.org/wiki/Joback_method http://link.springer.com/article/10.1007/BF02311772 http://webbook.nist.gov/cgi/cbook.cgi?ID=C5756434&Units=SI http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

срд:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
рс:	Critical Pressure
rhol:	Liquid Density
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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