

2-Hexen-1-ol, 2-ethyl-

Other names:	2-Ethyl-2-hexen-1-ol 2-ethylhex-2-enol
Inchi:	InChI=1S/C8H16O/c1-3-5-6-8(4-2)7-9/h6,9H,3-5,7H2,1-2H3/b8-6+
InchiKey:	JSRFYJBJQPGAAA-SOFGYWHQSA-N
Formula:	C8H16O
SMILES:	CCCC=C(CC)CO
Mol. weight [g/mol]:	128.21
CAS:	50639-00-4

Physical Properties

Property code	Value	Unit	Source
gf	-48.67	kJ/mol	Joback Method
hf	-253.25	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	50.12	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	2.115		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2963.34	kPa	Joback Method
rinpol	989.00		NIST Webbook
rinpol	1051.00		NIST Webbook
rinpol	989.00		NIST Webbook
rinpol	1002.00		NIST Webbook
ripol	1518.00		NIST Webbook
tb	478.66	K	Joback Method
tc	648.23	K	Joback Method
tf	221.70	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.19	J/mol×K	478.66	Joback Method
cpg	284.54	J/mol×K	506.92	Joback Method

cpg	295.39	J/mol×K	535.18	Joback Method
cpg	305.77	J/mol×K	563.45	Joback Method
cpg	315.70	J/mol×K	591.71	Joback Method
cpg	325.18	J/mol×K	619.97	Joback Method
cpg	334.25	J/mol×K	648.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50639004&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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