

2-Ethyl-4-methyl-1-pentanol

Other names:	2-Ethyl-4-methyl-1-pentanol 2-Ethyl-4-methylpentanol 2-Ethylisohexanol 2-Methyl-1-heptanol 2-ethyl-4-methylpentan-1-ol
Inchi:	InChI=1S/C8H18O/c1-4-8(6-9)5-7(2)3/h7-9H,4-6H2,1-3H3
InchiKey:	QCHSJPKDWOFACC-UHFFFAOYSA-N
Formula:	C8H18O
SMILES:	CCC(CO)CC(C)C
Mol. weight [g/mol]:	130.23
CAS:	10137-88-9

Physical Properties

Property code	Value	Unit	Source
af	0.6025		Cheméo Relay (1.0)
gf	-125.22	kJ/mol	Joback Method
hf	-365.43	kJ/mol	Cheméo Relay (1.0)
hfus	13.52	kJ/mol	Joback Method
hvap	64.20	kJ/mol	Cheméo Relay (1.0)
ie	9.63	eV	Cheméo Relay (1.0)
log10ws	-2.21		Cheméo Relay (1.0)
logp	2.051		Crippen Method
mcvol	129.450	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
tb	448.77	K	Cheméo Relay (1.0)
tc	625.76	K	Cheméo Relay (1.0)
tf	192.07	K	Cheméo Relay (1.0)
vc	0.449	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.39	J/mol×K	473.74	Joback Method
cpg	302.54	J/mol×K	501.44	Joback Method

cpg	314.22	J/mol×K	529.14	Joback Method
cpg	325.44	J/mol×K	556.84	Joback Method
cpg	336.21	J/mol×K	584.53	Joback Method
cpg	346.54	J/mol×K	612.23	Joback Method
cpg	356.45	J/mol×K	639.93	Joback Method
dvisc	0.3001577	Pa×s	210.74	Joback Method
dvisc	0.0290327	Pa×s	254.57	Joback Method
dvisc	0.0055777	Pa×s	298.41	Joback Method
dvisc	0.0016351	Pa×s	342.24	Joback Method
dvisc	0.0006333	Pa×s	386.07	Joback Method
dvisc	0.0002977	Pa×s	429.91	Joback Method
dvisc	0.0001609	Pa×s	473.74	Joback Method
hvapt	58.90	kJ/mol	396.50	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10137889&Units=SI

Legend

af:	Acentric Factor
cpg:	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
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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