2-Octanol

Other names:	«beta»-Octyl alcohol
	n-Octan-2-ol
	sec-Caprylic alcohol
	sec-Octyl alcohol
	Capryl alcohol
	Hexylmethylcarbinol
	Methylhexylcarbinol
	1-Methyl-1-heptanol
	1-Methylheptyl alcohol
	2-Octyl alcohol
	Octanol-2
	2-Hydroxyoctane
	s-Octyl alcohol
	Octan-2-ol
	2-Octanol, (.+/-.)-
	1-Methylheptanol
	2-Hydroxy-n-octane
	NSC 14759
	methylheptanol
Inchi:	InChI=1S/C8H18O/c1-3-4-5-6-7-8(2)9/h8-9H,3-7H2,1-2H3
InchiKey:	SJWFXCIHNDVPSH-UHFFFAOYSA-N
Formula:	C8H18O
SMILES:	CCCCCCC(C)O
Mol. weight [g/mol]:	130.23
CAS:	4128-31-8

Physical Properties

Property code	Value	Unit	Source
gf	-122.78	kJ/mol	Joback Method
hf	-365.96	kJ/mol	Joback Method
hfus	17.04	kJ/mol	Joback Method
hvap	49.69	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.338		Crippen Method
mcvol	129.450	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
tb	450.70	K	NIST Webbook

tb	453.55 ± 0.40	K	NIST Webbook
tb	453.20	K	NIST Webbook
tc	637.10	K	Joback Method
tf	225.74	K	Joback Method
vc	0.496	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.23	J/mol×K	474.18	Joback Method
cpg	302.08	J/mol×K	501.33	Joback Method
cpg	313.47	J/mol×K	528.49	Joback Method
cpg	324.43	J/mol×K	555.64	Joback Method
cpg	334.96	J/mol×K	582.79	Joback Method
cpg	345.08	J/mol×K	609.94	Joback Method
cpg	354.79	J/mol×K	637.10	Joback Method
dvisc	0.1178389	Pa×s	225.74	Joback Method
dvisc	0.0169844	Pa×s	267.15	Joback Method
dvisc	0.0041171	Pa×s	308.55	Joback Method
dvisc	0.0013956	Pa×s	349.96	Joback Method
dvisc	0.0005948	Pa×s	391.37	Joback Method
dvisc	0.0002984	Pa×s	432.77	Joback Method
dvisc	0.0001689	Pa×s	474.18	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4128318&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

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
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