

5-Octen-1-ol, (Z)-

Other names:	cis-5-Octen-1-ol (5Z)-Octen-1-ol (5Z)-5-Octen-1-ol (Z)-5-Octen-1-ol (Z)-5-Octenol (Z)-oct-5-en-1-ol
Inchi:	InChI=1S/C8H16O/c1-2-3-4-5-6-7-8-9/h3-4,9H,2,5-8H2,1H3/b4-3-
InchiKey:	VDHRTASWKDTLER-ARJAWSKDSA-N
Formula:	C8H16O
SMILES:	CCC=CCCCCO
Mol. weight [g/mol]:	128.21
CAS:	64275-73-6

Physical Properties

Property code	Value	Unit	Source
gf	-40.12	kJ/mol	Joback Method
hf	-243.46	kJ/mol	Joback Method
hfus	20.77	kJ/mol	Joback Method
hvap	50.04	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	2.115		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2947.28	kPa	Joback Method
ripol	1048.00		NIST Webbook
ripol	1051.00		NIST Webbook
ripol	1615.00		NIST Webbook
ripol	1608.00		NIST Webbook
ripol	1616.00		NIST Webbook
tb	478.78	K	Joback Method
tc	645.49	K	Joback Method
tf	235.66	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.29	J/molxK	478.78	Joback Method
cpg	284.49	J/molxK	506.57	Joback Method
cpg	295.20	J/molxK	534.35	Joback Method
cpg	305.44	J/molxK	562.14	Joback Method
cpg	315.25	J/molxK	589.92	Joback Method
cpg	324.63	J/molxK	617.71	Joback Method
cpg	333.60	J/molxK	645.49	Joback Method
dvisc	0.0553869	Paxs	235.66	Joback Method
dvisc	0.0099375	Paxs	276.18	Joback Method
dvisc	0.0027674	Paxs	316.70	Joback Method
dvisc	0.0010300	Paxs	357.22	Joback Method
dvisc	0.0004689	Paxs	397.74	Joback Method
dvisc	0.0002469	Paxs	438.26	Joback Method
dvisc	0.0001449	Paxs	478.78	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C64275736&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
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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