

6-Methyl-4-hepten-2-ol

Inchi:	InChI=1S/C8H16O/c1-7(2)5-4-6-8(3)9/h4-5,7-9H,6H2,1-3H3/b5-4+
InchiKey:	DDCSBNXVMSWZLW-SNAWJCMRSA-N
Formula:	C8H16O
SMILES:	CC(C)C=CCC(C)O
Mol. weight [g/mol]:	128.21

Physical Properties

Property code	Value	Unit	Source
gf	-45.00	kJ/mol	Joback Method
hf	-254.02	kJ/mol	Joback Method
hfus	13.72	kJ/mol	Joback Method
hvap	49.26	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.969		Crippen Method
mvol	125.150	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
ripol	1459.00		NIST Webbook
ripol	1459.00		NIST Webbook
tb	477.90	K	Joback Method
tc	651.52	K	Joback Method
tf	205.66	K	Joback Method
vc	0.470	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.66	J/mol×K	477.90	Joback Method
cpg	327.52	J/mol×K	622.58	Joback Method
cpg	317.73	J/mol×K	593.65	Joback Method
cpg	307.47	J/mol×K	564.71	Joback Method
cpg	296.72	J/mol×K	535.77	Joback Method
cpg	285.45	J/mol×K	506.84	Joback Method
cpg	336.85	J/mol×K	651.52	Joback Method
dvisc	0.0001312	Paxs	477.90	Joback Method

dvisc	0.0002445	Paxs	432.53	Joback Method
dvisc	0.0005271	Paxs	387.15	Joback Method
dvisc	0.0013935	Paxs	341.78	Joback Method
dvisc	0.0049613	Paxs	296.41	Joback Method
dvisc	0.0279535	Paxs	251.03	Joback Method
dvisc	0.3377397	Paxs	205.66	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R548266&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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