

(Z)-4-hepten-2-ol

Other names:	4-Hepten-2-ol, (Z)- (Z)-hept-4-en-2-ol
Inchi:	InChI=1S/C7H14O/c1-3-4-5-6-7(2)8/h4-5,7-8H,3,6H2,1-2H3/b5-4-
InchiKey:	KZUFTCBJDQXWOJ-PLNGDYQASA-N
Formula:	C7H14O
SMILES:	CCC=CCC(C)O
Mol. weight [g/mol]:	114.19
CAS:	34146-55-9

Physical Properties

Property code	Value	Unit	Source
gf	-50.98	kJ/mol	Joback Method
hf	-228.10	kJ/mol	Joback Method
hfus	14.65	kJ/mol	Joback Method
hvap	47.42	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.723		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	3310.55	kPa	Joback Method
rinpol	869.00		NIST Webbook
rinpol	868.00		NIST Webbook
rinpol	869.00		NIST Webbook
rinpol	869.00		NIST Webbook
ripol	1310.00		NIST Webbook
ripol	1310.00		NIST Webbook
tb	455.46	K	Joback Method
tc	626.76	K	Joback Method
tf	209.39	K	Joback Method
vc	0.420	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.62	J/mol×K	455.46	Joback Method

cpg	242.14	J/molxK	484.01	Joback Method
cpg	252.19	J/molxK	512.56	Joback Method
cpg	261.78	J/molxK	541.11	Joback Method
cpg	270.95	J/molxK	569.66	Joback Method
cpg	279.70	J/molxK	598.21	Joback Method
cpg	288.05	J/molxK	626.76	Joback Method
dvisc	0.1747804	Paxs	209.39	Joback Method
dvisc	0.0210963	Paxs	250.40	Joback Method
dvisc	0.0046173	Paxs	291.41	Joback Method
dvisc	0.0014702	Paxs	332.43	Joback Method
dvisc	0.0006019	Paxs	373.44	Joback Method
dvisc	0.0002941	Paxs	414.45	Joback Method
dvisc	0.0001634	Paxs	455.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C34146559&Units=SI
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

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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