

(2E)-2-heptene

Inchi:

OTTZHAVKAVGASB-HWKANZROSA-N

InchiKey:

CC=CCCC

Formula:

C7H14

Mol. weight [g/mol]:

98.19

Physical Properties

Property code	Value	Unit	Source
gf	88.28	kJ/mol	Joback Method
hf	-70.59	kJ/mol	Joback Method
hfus	14.09	kJ/mol	Joback Method
hvap	31.13	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.753		Crippen Method
mcvol	105.190	ml/mol	McGowan Method
pc	2960.12	kPa	Joback Method
tb	363.72	K	Joback Method
tc	536.01	K	Joback Method
tf	163.57	K	Joback Method
vc	0.407	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.32	J/mol×K	363.72	Joback Method
cpg	192.00	J/mol×K	392.43	Joback Method
cpg	203.19	J/mol×K	421.15	Joback Method
cpg	213.90	J/mol×K	449.86	Joback Method
cpg	224.15	J/mol×K	478.58	Joback Method
cpg	233.95	J/mol×K	507.29	Joback Method
cpg	243.33	J/mol×K	536.01	Joback Method
dvisc	0.0047393	Pa×s	163.57	Joback Method
dvisc	0.0017796	Pa×s	196.93	Joback Method
dvisc	0.0008875	Pa×s	230.29	Joback Method

dvisc	0.0005278	Pa×s	263.64	Joback Method
dvisc	0.0003528	Pa×s	297.00	Joback Method
dvisc	0.0002558	Pa×s	330.36	Joback Method
dvisc	0.0001967	Pa×s	363.72	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6007044&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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